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MARMARA UNIVERSITY

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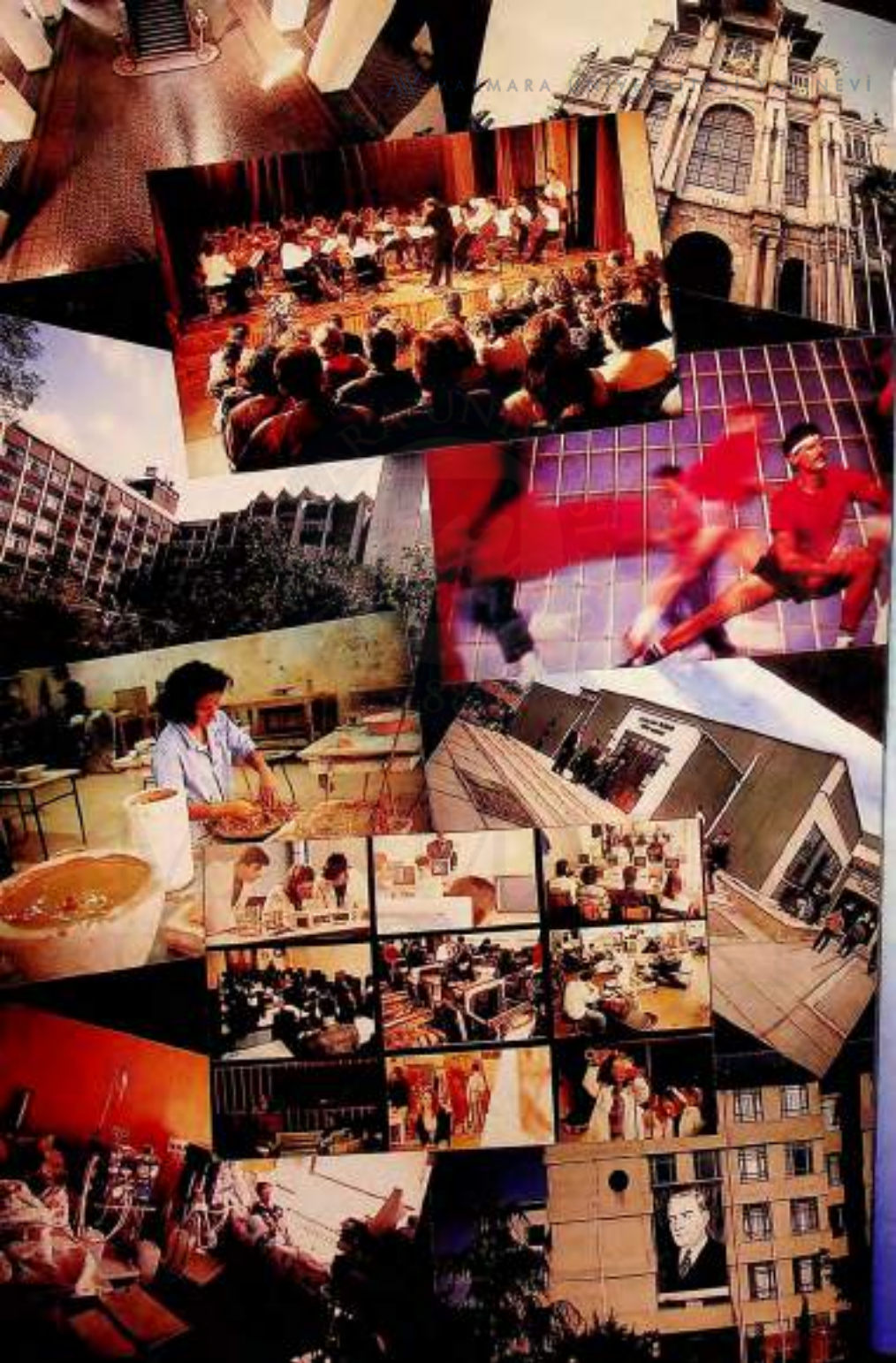

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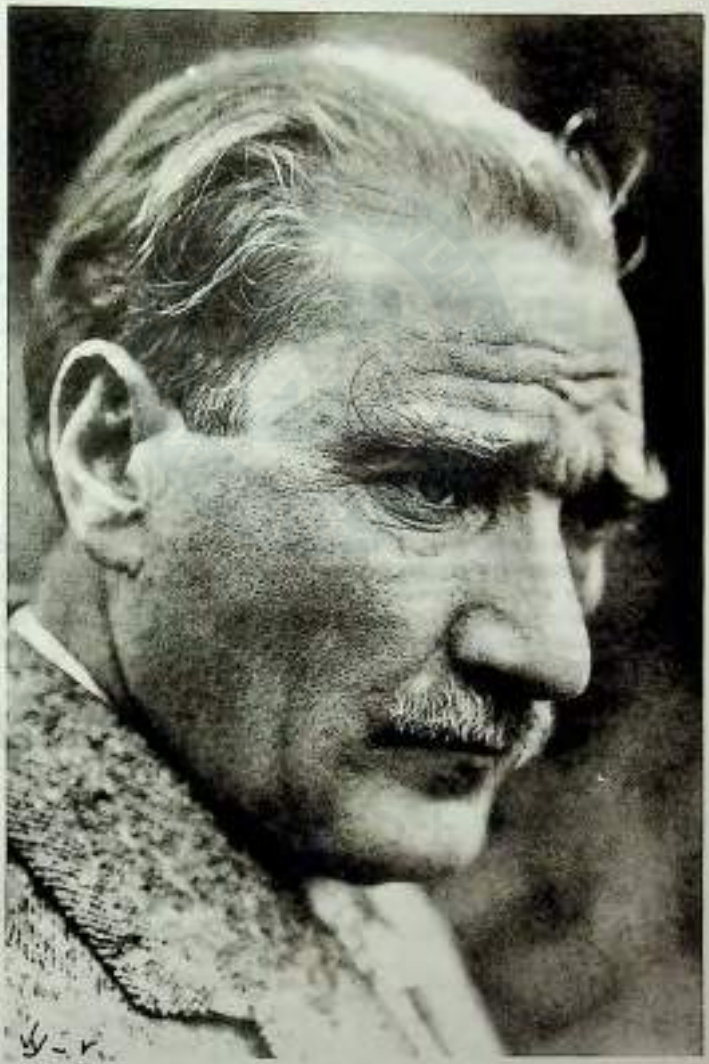

Mustafa Kemal ATATÜRK
Samsun, 19 May 1919

Dünyada herşey için, maddiyat için, maneviyat için, muvaffakiyet için en hakiki mürşid ilimdir, fendir. İlim ve fennin haricinde mürşid aramak gaflettir, cehalettir, dalalettir. Yalnız ilmin ve fennin yaşadığımız her dakikadaki safhalarının tekamülünü idrak etmek ve terakkiyatını zamanla takip eylemek şarttır".

22 Eylül 1924, Samsun
Samsun'lu Öğretmenlere Hitaben

"For everything in the world, for material ends, for moral ends, for success the greatest guiding force is knowledge and science. To look for any other guidance outside knowledge and science would be wrong, it would be ignorance. However, as long as we live, we must follow developments in knowledge and science and be aware of their progress through time".

22 September 1924, Samsun
Address to Teachers at Samsun

Mustafa Kemal ATATÜRK

"Hiç bir zaman hatırlarından çıkmasın ki, Cumhuriyet sizden 'fikri hür, vicdanı hür, irfanı hür' nesiller ister".

25 Ağustos 1924, Ankara
Muallimler Birliği Kongresi

"We should never forget that the Republic wants generations with independent minds, free consciences and unfettered knowledge".

25 August 1924, Ankara
Teachers' Association Congress

Mustafa Kemal ATATÜRK

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FOREWORD

Marmara University was first founded in 1883 as 'The Hamidiye School of Higher Commercial Education' and since its inception it has been prominent in pioneering education in commercial studies at undergraduate and graduate levels. The opening of the school was performed by the Minister of Commerce, Abdullah Suphi Pasha on 16 January 1883, and on the same day lectures were given by the Minister of Education, Münif Tahir Pasha. The school was originally located at a mansion of Babali, close to Topkapı Palace.

By the end of the first decade, the school had acquired a high reputation for the standard of its courses and the general educational level of its entrants. This reputation was well founded, as the lecturers were prominent people in the government and industry of the time. The courses were given not only in economics and commerce but also included vocational orientation of the courses. As a result of this, many of the past public figures in Turkish society were graduates of the school and this tradition still continues today.

Throughout its century long history, the school underwent various changes in its name and infrastructre until the foundation of Marmara University. After the establishment of the Higher Education Board (YÖK) in 1981 in Türkiye, the decision was made to found three new universities in Istanbul. Marmara University, which is the largest of these, was founded in 1982 on the premises of the Academy of Commercial and Economics Sciences and it merged with other institutions of higher education.

Presently, in 1995 the University has 13 Faculties, 11 Institutes, 8 Schools of Higher Education and 24 Research Centers. It is the fourth largest university in Türkiye. We have 34 111 undergraduate students, 7586 graduate students, and 4439 students in 2 year programs (a total of 46 136 students). There are 2467 academic and 1228 administrative personnel.

Thus, even though the University has a tradition dating back to the nineteenth century, at the same time it is a new, modern and forthcoming university that has grown and spread very rapidly, partly in response to the acute demand for institutions of higher education in an expanding city of presently about 10 million people. Türkiye has a young population. University entrance rests on an extremely competitive national examination system. We take pride in our students, quite a number of whom rank among the first top 1 % nationally.

The diversity of the fields offered at Marmara University makes us one of the uniquely rich universities in the country. Under one academic roof we

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contain the fields of administrative, economic and social sciences, arts and sciences, communication, divinity, education, engineering, health and medicine, and law. In an era where trans-disciplinary work is becoming the desired norm, the extent of scientific fields covered provides an attractive asset for scholarly work at our University.

Furthermore, in addition to the regular academic programs leading to BA, BS, MBA, MA, MS, Ph.D diplomas through our faculties, institutes and schools, we also offer evening courses, summer programs and adult education courses for the benefit of the larger community. As it will become apparent to anyone who looks at the range of courses, diplomas and certificates offered by our university, we not only carry a uniquely wide realm of academic programs representing the spectrum of contemporary scientific disciplines; but at the same time our programs range from vocational and technical training to advanced postgraduate education.

An important characteristic of Marmara University is the diversity of languages of instruction. Naturally, the main language of instruction is **Turkish**, but we also have faculties, departments and units where the medium is **English, French** and **German.** On our part, among other considerations, this is an outreach effort to facilitate the exchange of international scholarly co-operation. Students in the non-Turkish medium departments spend one year in the Language Preparatory Schools to gain enough competence in the above respective languages before entering their freshman year at the University.

The unifying element and our common spirit rests on our mutual striving for excellence in the respective fields; professional ambition and a feeling of responsibility to our community together with friendliness and co-operation in professional and human relations. To the above, I may add the spirit of entrepreneurship. In this respect, we owe a great deal to Professor Orhan Oğuz, our founding rector who worked hard to give the university its initial onset in the early 1980s. These qualities have contributed and combined to make us an institution of higher education that makes a difference in the community.

The University carries both the advantages and some of the shortcomings of being a relatively new university. We also take pride in our highly qualified and motivated academic staff who have worked to re-shape and build into a modern university institutions of higher education dating back to the Ottoman period. Without this dedicated input on the part of our academic faculty, Marmara University would not have gained its national and international standing in such a short time.

The university is geographically distributed into seven different campuses on the Asian and the European sides of Istanbul, one of the most beautiful and historically rich cities of the world. Thus, our faculty, staff and students enjoy an extensive range of districts as well as some very handsome and monumental university buildings. But at the same time, adminis-

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tration needs more planning and some of our campuses are still very much under construction.

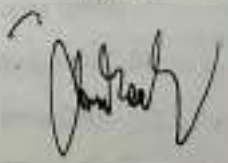
Marmara University is a Turkish state university. On the positive side, this means tuition fees are lower for the students. At the same time, we function with serious economic shortcomings. We are grateful to the benefactors who have generously supported education at Marmara University through their contributions to various foundations and programs.

Our University carries the fundamental ideal of achieving excellence in undergraduate and graduate education, in research and in public service. We see these as inseparably interrelated areas. For the realization of the above ideal, the University has established several goals, including the following: to educate students to their highest potential of intellectual achievement and personal growth; to develop scholars, professionals, artists, and scientists who will contribute to the advancement of humankind both nationally and internationally; to conduct research that advances the frontiers of knowledge and to engage in public service.

In a world of continuing war, violence, strife and inter-cultural conflict our University embraces ideals of human worth, justice and global peace. We believe that international recognition and co-operation between institutions of higher education contribute not only to the advancement of knowledge, science and education but also to the greatly needed development and strengthening of friendship ties between cultures, regions and nations the world. For the attainment of these objectives, I believe Marmara University makes a difference.

In this catalog we have tried to include as much information as possible, but obviously we could not include everything. We apologize for any omissions the catalog may contain. Nevertheless, we hope that this initial post-graduate English catalog will be a source of information to you about our University and about the programs available. We are proud of Marmara University and of its programs. We encourage you to become acquainted with us and with the many programs and resources available to the community through our University.

Prof. Dr. Ömer Faruk BATIREL
Rector



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Faculty of Divinity	: Ahmet KAHRAMAN
Faculyt of Economic and Administrative Sciences	: Yıldıray ÖZKAN
Faculty of Engineering	: Nazif TOYBIYIK
Faculty of Fine Arts	: Duran ATLI
Faculty of Law	: Mehmet Ali KUDU
Faculty of Medicine	: Nimet BELEN
Faculty of Pharmacy	: Neval ANDAÇ
Faculty of Technical Education	: Tümer BAYLAN
School of Nursing	: Lale VARAN
School of Physical Education and Sports	: Özay ATMACA
Vocational School of Divinity	: İbrahim GÜNTÜRKÜN
Vocational School of Health Related Professions	: Saniye ÇORLU
Institute of Banking and Insurance	: Ünzile KURT
Institute of Educational Sciences	: Aysel KORKMAZ
European Community Institute	: Ali Ekber BAL
Institute of Gastroenterology	: Selami AYDIN
Institute of Health Sciences	: Neval ANDAÇ (temporary)
Institute of Middle Eastern and Islamic Countries	: SüleymanKOCAOĞLU
Institute of Social Sciences	: Kamuran ORHAN
Institute of Technical Sciences	: Aygün BİŞKİN (temporary)
Institute of Turkish and Turkic Studies	: Ümran ALAFTAN
Vocational School of Social Sciences	: Neriman MERİÇ (temporary)
Vocational School of Technical Sciences	: Muhsin ARVAS
Haydarpaşa Vocational School of Health Services	: Meral AŞMAN
Zeynep Kamil Vocational School of Health Services	: Sabiha BALKAN (temporary)

Abbreviations for Faculties and Institutes

AFE	Atatürk Faculty of Education
DFL	Department of Foreign Languages
DAPHR	Department of Atatürk's Principles and the History of the Turkish Renovation
FAS	Faculty of Arts and Sciences
FC	Faculty of Communication
FD	Faculty of Dentistry
FDI	Faculty of Divinity
FEAS	Faculty of Economic and Administrative Sciences
FE	Faculty of Engineering
FFA	Faculty of Fine Arts
FL	Faculty of Law
FM	Faculty of Medicine
FP	Faculty of Pharmacy
FTE	Faculty of Technical Education

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IBI	Institute of Banking and Insurance
ITS	Institute of Technical Sciences
IEC	Institute of European Community
IHS	Institute of Health Sciences
ITS	Institute of Turkish and Turkic Studies
ISS	Institute of Social Sciences
IG	Institute of Gastroenterology
IMEI	Institute of Middle East and Islamic Countries
ISE	Institute of Technical Sciences
ISE	Institute of Technical Science
IES	Institute of Educational Sciences
HVSHS	Haydarpaşa Vocational School of Health Services
SON	School of Nursing
VSD	Vocational School of Divinity SPES School of Physical Education and Sports
VSHRP	Vocational School of Health Related Professions
VSSS	Vocational School of Social Sciences
VTS	Vocational School of Technical Sciences
ZKVSHS	Zeynep Kamil Vocational School of Health Services

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I. GENERAL INFORMATION

Government of the University

The Rector, as chief officer of the University, presides over the Senate and the University Executive Council.
The chief executive body of the University is the University Executive Council consisting of Deans, and Members elected by the University Senate.
The Senate is the principal Academic Body, consisting of Deans, Directors of Institutes, Directors of Vocational schools, and Members elected by the Faculties. Senate sub committees deal with a wide range of subjects. Matters relating to curriculum and examinations are dealt with by the Board of Faculties, Schools and Institutes. Each Faculty, School or Institute has its own Council and Board.

History of the University

1 – Marmara University was founded on January 16, 1883 under the name of "Hamidiye College of Higher Commercial Education". At the time it was the only leading higher education institute for studies in Economics and Commerce. Until 1923, courses were taught in various buildings in Istanbul. However, in 1923, with the Declaration of the Turkish Republic, the Institutite was relocated the Rectorate Building in Sultanahmet. This had criminally been used as the Ministry of Agriculture during the Ottoman Empire. Fnrom 1923 to 1959, the college was called the "Higher Educational School of Economics and Commerce". In the year 1959 the name was change to "Academy of Economics and Commercial Sciences".
2 – In accordance with **Act 1472**, in the year 1972, some of the private Schools of Higher Education in Istanbul were nationalized and hence incorporated into this long established institution. Among these schools were Dentistry, Pharmacy and Journalism. With the incorporation of six other Aksaray, Şişli, Galatasaray Economics and Commerce, Journalism, and Nişantaşı, The Istanbul Academy of Economics and School of Dentistry and Pharmacy, Commercial Sciences became the third largest institution in the field of Economics and Commerce, after Istanbul University and Istanbul Technical University. This expansion accelerated the operational process of the Academy becoming a University. Ord. Prof. Dr. Nihad S. Sayar, then Director of the Academy of Economics and Commercial Sciences, named the University "Marmara".
4 – In 1979 the Economics, Business Administration, International Relations, Commercial Sciences, Dentistry, Pharmacy and School of Journalism began

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operating as Faculties of the newly formed university. The Faculty of Medicine, ceased to function when the Vakıf Gureba Hospital building was reclaimed.
5 - In accordance with the Act 2800, of November 6, 1981, The Istanbul Academy of Economics and Commercial Sciences was finally recognised as Marmara University in July 25, 1982.
At present there are 13 Faculties, 8 Schools, 11 Institutes and 24 Research Centers. M.U. is the fourth biggest University in Turkey. There are 2422 Academic and 1240 Administrative staff.

1. STUDENT SERVICES AND FACILITIES

A network of services, programs, and resources provided by knowledgeable and caring staff members is available to the students at Marmara University The University has a unique location, as its faculties are spread out on both sides of the Bosphorus. This makes MU the only University in the world located on two continents, Asia and Europe. As a result the many social facilities are also widely dispersed.

Accommodation

Campus housing is available for 450 students. One residence hall in Anadoluhisarı campus houses 600 female undergraduates. The residence hall on Göztepe Campus houses 450 female graduate and undergraduate students. The residence halls have several facilities such as common recreation rooms, game areas, launderettes and small kitchens. Meals are served regularly and residents also have the opportunity to do their own cooking.
The Hostel on Göztepe Campus has been in service since the 1991-1992 academic year for visiting foreign teaching staff and the academic staff from other cities of Turkey.
There is also another residence hall near the Göztepe Campus for the nurses in Marmara University Hospital.

Staff and Students

In the academic year 1995 - 1996 the number of students enrolled totals 38.550 for the undergraduate programs and 7586 for the graduate programs. (See Tables I and II). There are over 70 foreign students enrolled in postgraduate programs at Marmara University (See Table III).

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Table I: Student Population at Marmara University

Program	Male	Female	Total
2 Year Study Programs	2186	2253	4439
Undergraduate	20504	13607	34111
Graduate	5329	2257	7586
Total	28.019	18,117	46,136

In 1995-1996 the University boasts 2467 full-time faculty members (See Table IV). In addition there are 69 foreign academic staff from a variety of countries.

GEOGRAPHICAL LOCATIONS OF MARMARA UNIVERSITY

Marmara University has an unusual situation in that the University expands over 8 main campuses that are located over both the Asian and the European sides of Istanbul (See Map). In addition to these main campuses the University has its main Rectorate offices in the Sultanahmet district of the city and a number of other institutions are located in various other regions of Istanbul. The University Hospital, for example is located in Altunizade. The 8 main campuses of Marmara University are Altunizade, Anadoluhisarı, Bahçelievler, Göztepe, Haydarpeşa Nişantaşı, Acıbadem and Tarabya. The largest Campus is the Göztepe Campus. The distribution of faculties and institutes of graduate programs as well as some other major university bodies are as follows:

1. **Acıbadem Campus**
   Institute of Fine Arts
   Faculty of Fine Arts

2. **Altunizade Campus**
   Faculty of Divinity

3. **Anadoluhisarı Campus**
   Faculty of Economic and Administrative Sciences

4. **Bahçelievler Campus**
   Institute of Social Sciences
   Faculty of Economic and Administrative Sciences.

5. **Göztepe Campus**
   European Community Institute
   Institute for Graduate Studies in Science and Technology
   Institute of for Turkish and Turkic Studies
   Institute of Middle Eastern and Islamic Countries
   Atatürk Faculty of Education
   Faculty of Engineering
   Faculty of Economic and Administrative Sciences
   (Main University Library Sports Building).
   Faculty of Technical Education
   Faculty of Arts and Sciences
   Department of Foreign Languages
   Department of Turkish Languages

6. **Haydarpaşa Campus**
   Institute of Health Sciences
   Faculty of Medicine
   Faculty of Pharmacy
   Faculty of Law

7. **Nişantaşı Campus**
   Institute of Banking and Insurance
   Faculty of Communication
   Faculty of Dentistry

8. **Tarabya Campus**
   Faculty of Economic and Administrative Sciences.

Thus, the graduate programs offered by respective Institutes are centrally administrated and carried out on the following Campuses:

1. Institute of Banking & Insurance - Nişantaşı
2. Institute of Eduational Sciences - Göztepe
3. European Community Institute - Göztepe
4. Institute of Fine Arts - Acıbadem
5. Institute of Gastroenterology - Kartal
6. Institute of Health Sciences - Haydarpaşa
   Dentistry - Nişantaşı
   Medical - Haydarpaşa
   Nursing - Haydarpaşa
   Pharmaceutical Sciences - Haydarpaşa
   Physical Education - Anadoluhisarı
7. Institute of Middle Eastern and Islamic Countries - Göztepe
8. Institute of Neurological Sciences - Kartal
9. Institute of Social Sciences (Bahçelievler)
10. Institute for Graduate Studies in Science and Technology - Göztepe
11. Institute for Turkish and Turkic Studies - Göztepe

Table II: Postgraduate Students of Marmara University

Institutes	POSTGRADUATE STUDENTS																							
	Students Newly Enrolled in 1996 - 1997									Total Number of Students in 1996 - 1997									Degrees Earned in 1995-1996					
	MASTER			DOCTORATE			TOTAL			MASTER			DOCTORATE			TOTAL			MASTER			DOCTORATE			TOTAL		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Institute of European Community	20	10	30	7	5	12	27	15	42	59	83	142	12	10	22	71	93	164	13	12	25	–	2	2	13	14	27
Institute of Banking and Insurance	17	49	66	3	14	17	20	63	83	54	324	378	15	63	78	69	387	456	23	43	66	2	2	4	25	45	70
Institute of Science and Technology	30	106	136	6	15	21	36	121	157	110	411	521	60	179	239	170	590	760	23	50	73	1	7	8	24	57	81
Institute of Health Sciences	43	16	59	14	15	29	57	31	88	133	79	212	109	142	242	233	221	454	30	13	43	8	12	20	38	25	63
Institute of Social Sciences	270	611	881	59	132	182	343	744	1087	1369	3467	4836	297	589	946	1621	3852	5903	77	132	209	24	45	69	101	176	277
Institute of Turkish and Turkic Studies	28	26	54	7	8	15	35	34	69	75	107	182	18	49	67	93	156	249	18	17	35	4	5	9	22	22	44
TOTAL	408	818	1226	87	189	276	518	1008	1626	1800	4471	6271	462	1032	1494	2267	5329	7596	184	267	461	39	73	112	223	339	562

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Table II: Foreign Postgraduate Students

Institutes	FOREIGN POSTGRADUATE STUDENTS																										
	Students Newly Enrolled in 1996 - 1997									Total Number of Students in 1996 - 1997										Degrees Earned in 1995-1996								
	MASTER			DOCTORATE			TOTAL			MASTER			DOCTORATE			TOTAL			MASTER			DOCTORATE			TOTAL		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
European Community				1		1	1		1	3	5	8	1	1	2	4	6	10				2	1	3	2	1	3
Institute of Banking and Insurance	1	1	2				1	1	2	1	2	3		1	1	1	3	4									
Institute of Sciences and Technology										1	4	5		2	2	1	6	7		1	1					1	1
Institute of Health Sciences		1	1		1	1		2	2	2	5	7	2	4	6	4	9	13		1	1				1	1	2
Institute of Social Sciences	1	5	6				1	5	6		10	10	1	1	2	1	12	13	1	1	2				1	1	2
Institute of Turkish and Turkic Studies				1		1	1		1	3		3	4		4	7		7									
TOTAL	2	7	9	2	1	3	4	8	12	10	26	36	8	9	17	18	35	54	1	3	4	2	1	3	3	4	7

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Table IV. Faculty Members at Marmara University

ACADEMIC PERSONNEL

	Professors			Assoc. Prof.			Assist. Prof.			Lecturers			Research Asst.			Specialists			Instructors			Trans.			Sol. Man			Total		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	MT	FT	TT
Atatürk Faculty of Education	38	12	50	18	14	32	25	19	44	42	60	102	46	30	76	2	1	3										183	128	311
Faculty of Dentistry	13	5	18	4	7	11	3	3	6	1	1	2	18	16	34	2	1	3										44	33	82
Faculty of Pharmacy	5	8	13	1	5	6	2	10	12	2	8	8	4	27	31		4	4										18	60	78
Faculty of Arts and Sciences	15	8	23	14	4	18	19	10	29	9	3	12	29	22	50	5		5										90	47	137
Faculty of Fine Arts	23	7	30	4	10	14	31	11	42	13	11	24	21	24	45	2	3	5										100	66	166
Faculty of Law	18	4	20	1		1	12	9	21			5	24	21	45													57	34	91
Faculty of Economic and Administrative Sciences	62	12	74	24	22	46	32	24	56	4	3	7	86	47	127	2	1	3										184	109	293
Faculty of Divinity	38		38	11		11	24		24	19		19	11	0	11													103	0	103
Faculty of Communication	8	1	9	6	12	2	6	6	7	3	10	12	24	46	2		2											38	68	83
Faculty of Engineering	8	1	9	3		3	4	1	5	4	2	6	14	5	19		1	1										33	10	43
Faculty of Medicine	97	105	202	25	17	42	26	24	80	8	18	26	81	83	164	8	11	17										117	167	284
Faculty of Technical Education	11	2	13	5	3	8	29	2	28	44	3	98	22	11	47	1	3	4										113	30	146
Faculty of Health Sciences							2		2	1	1						1	1										3	1	4
Rector's Office																5	17	22	30	144	174	3	3	1	1	2	38	165	203
Institute of European Community							2		2	2		2	1	7	8													5	7	12
Institute of Banking and Insurance	1	1	2					1	1			6	1	2	8													8	4	12
Institute of Sciences and Engineering													19	14	33													19	14	33
Institute of Health Sciences													15	27	42													15	27	42
Institute of Social Sciences													19	19	38													29	19	48
Institute of Turkish and Turkic Studies	1		1				1	1	2	1		1	8	6	14							1	1					8	10	18
Vocational School of Nursing	2		2	2		2	3		3	2		2	1	1	0													14	1	15
School of Education and Sports		2	2	3	3	6	9	5	14	23	7	30	17	8	25	1	3	4										57	28	85
School of Nursing					8	8		13	13		7	7		15	15	1	2	3										1	42	43
Vocational School of Health Related Sciences					2	2	2	2	4	1	4	5		3	3	1	1	2										4	12	16
Vocational School of Social Sciences	1		1	1	2	3	8	3	11	12	9	21	4	4	8													26	18	44
Vocational School of Technical Sciences				1		1	2	0	2	10	2	12	0	0	0													13	2	15
																												0	0	0
TOTAL	378	78	364	131	100	230	253	181	384	201	122	324	468	431	901	30	48	78	30	144	174	3	4	4	1	1	2	1378	1007	2385

* Minimum: (M)Female, (T)Total

MARMARA ÜNİVERSİTESİ ATATÜRK EĞİTİM FAKÜLTESİ

Computer Facilities

To equip university graduates with the knowledge and skills necessary to be competitive in modern society presents a formidable challenge. Marmara University is facing up to this challenge with a firm commitment to provide a wide range of computational services and a comprehensive computer education.

The difficulty of providing the University community with uniform computational services is due to the fact that Marmara University has 7 different campuses spread all over metropolitan Istanbul.

Personal computers are being used as the main computational tool in education and research. In some technical departments, the number of students per machine is as low as 5. several unix workstations of various models are also in use for graduate research and specialized education such as CAD/CAM.

Internet connection is avalabe thrcugh number of personal computers and dial-up modems. Faculty members can be reached with the e-mail address "marun.edu.tr", independent of the machine they log on. Work is in progress for extending these services to the faculties where a high demand exists.

Libraries

Marmara University library system holds a total of about 280 thousand books and about 8.000 periodicals in Turkish, English, French, German and other languages, distributed among 16 different libraries situated on both the Asian and European sides of Istanbul.

The number of books owned by different faculties are as follows:

Faculty of Divinity	: 50.000 (1000 hand written scripts)
Arts and Sciences	: 27.000
Law	: 20.000
Atatürk Faculty of Education	: 20.000
Economic and Administrative Sciences + Engineering	: 10.000
Faculty of Communication	: 5.500
Fine Arts	: 5.000
Technical Education	: 2.600
Pharmacy	: 2.000

All books, periodicals and magazines are bought or classified by the main library on Bahçelievler Campus. The main library is being presently transferred to the newly constructed main building at Göztepe Campus. The collec-

tions at the libraries are organized according to the Dewey Decimal Classification scheme and catalogued in accordance with AACR 2. The Library of Congress Subject Headings are used. Each book is listed in the catalogue by author, title, and subject.

The services of the libraries are available to the faculty, students and administrative staff, as well as to users from other national universities and institutions. Books can be borrowed for one week by the students and two weeks to one month by the academic staff.

When the books needed are not available, other libraries in Turkey and abroad are contacted to supplement the resources. The main library can obtain any reference material needed from abroad through YÖK, which is connected to the Dialogue Center.
Besides the main library in Bahçelievler, most of the departments have their own libraries. In addition, photocopy units are available to provide photocopies of any source for a reasonable fee.

Construction of the new Main Library Building, which will unite all the library units of Marmara University, is underway on Göztepe Campus.

Galleries

Marmara University Art Gallery displays a fine collection of 20th century art. These regular works of art are complemented by special exhibitions from across the nation and from Marmara University faculty and students. Faculty members and students are frequent exhibitors of handcraft in the gallery of the Department of Fine Arts.

Student Services Office

The Office is responsible for matters concerning enrollment, scholarships, financial aid, counselling, identity cards and graduation requirements. The alumni office is connected to this office and coordinates communication between graduates and student, faculty and administration; keeps updated information of graduates; makes arrangements to let graduates benefit from facilities of the University.

Health Care and Sports Office

The Health Care and Sports office provides and coordinates a number of vital services to students. Fully accredited health care is available through the University Health Care Center and Marmara University Research Hospital. At the University Health Care Centers which are located on the campuses there is no charge for students during regular hours and it is open 8 hours daily. Basic tests, medication, consultants, physicians, registered nurses, dentists

and mental health professionals are available 8 hours a day. For more severe cases Marmara University Research Hospital is on duty for 24 hours. This office is also responsible for accomodation and social and athletic activities carried out during the academic year.

Students who wish to stay in residence halls must complete the appropriate application forms and return them to the office.

Activities and Sports

There are many extracurricular activities on the various campuses. Intramural sports are played throughout the year and a student may choose any of the major sports. The University participates in varsity intercollegiate sports. The representative teams are organized by University Sports Clubs.
Student activities take place on a national and international scale. On the campuses there are a total of 3 gyms, 8 open-air basketball and volleyball fields, 2 football fields, 5 tennis courts and 3 intramural sports centers.

Students can also participate in cultural activities like Turkish Folk Dancing, Turkish Folk Music, Turkish Classical Music, Lecturing, Drama and Guitar and Bağlama courses. Lectures are held on a variety of subjects throughout the academic year at the İbrahim Üzümcü Cultural Center.

There are Student Services Representatives in each of the Faculties. Students interested in participating in the activities of the organizations listed below, should contact the related clubs.

Communications Club
Culture Club
Education Technology Club
Economists Club
Engineering Club
Folklore Club
International Relations Club
Management Club
Marmara Society
Music Club
Political History Club
Philosophical Arts Club
Photography Club
Science and Technology Club
Teaching of Science Club
Yakamoz Art and Science Club

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2. ACADEMIC POLICIES

Marmara University offers Master's and Ph.D. degrees in Arts and Science to students of graduate standing. The degree of Master of Arts and Master of Science is given to students who complete a course of study lasting approximately four semesters, of which the first two semesters are designated to selective courses and the following two semesters to the selection and completion of a Master's thesis.

Those students who have received a Master's degree in their field of study can continue their education to receive a Ph.D. The requirements and regulations for such a degree are described in detail under each Institute's heading.

Admission Requirements and Procedures

Students holding Bachelor's degrees are eligible to apply for Master's programs and those holding Master's degrees are eligible to apply for doctoral programs in the Institutes of Marmara University. For further information students should apply to the respective Institutes.

Necessary Documents for Registration

1 – Proof of Proficiency in a foreign language required by the Institute.
2 – An undergraduate diploma for Master's; a Master's diploma or its equivalent for Ph.D. applicants (authorized by the Notary Public.)
3 – A grade point average of at least 2.40 or 60 out of 100 during undergraduate studies for Master's applicants.
4 – A grade point average of at least 3.00 or 75 out of 100 during graduate studies for Ph.D. applicants.
5 – Foreign students who have completed their undergraduate studies abroad must submit their proof of equivalency (authorized by YÖK) and their diplomas (authorized by Notary Public).
6 – Proof of Turkish Proficiency obtained through TÖMER (for foreign students only).
7 – A certified copy of the birth certificate (Passport for foreign students).
8 – A C.V. (applicants of European Community Institute and Institute of Health Sciences).
9 – Two passport-size recent photographs.
10 – Official transcript for all graduate or undergraduate level course work completed up to the time of application (applicants of Institute of Helath Sciences must submit two copies).
11 – Application form obtained from the Instittes during registration.
12 – Documents must be properly filed (two separate files for Institute of Health Sciences).
13 – The applicants of the Institute for Graduate Studies in Science and

Technology must pay an application fee of 500.000 TL payable through İş Bankası Ziverbey Branch, Account Number 1155 30422 176018.

All applicants must apply in person. Applications through mail will not be taken into consideration. Information regarding enterance exams can be obtained through the program advisors.

Addresses for Application

		Dates
M.U.	Institute of Banking and Insurance Kocamansur Sok. No: 109 Şişli-ISTANBUL	19-29 August 1997
M.U.	Institute of Educational Sciences Göztepe Campus. Kadıköy - ISTANBUL	26 August - 2 Sept. 1997
M.U.	European Community Institute Göztepe Campus. Kadıköy - ISTANBUL	19-29 August 1997
M.U.	Institute of Fine Arts Küçük Camlıca, Acıbadem Cad. Kadıköy - ISTANBUL	19 - 29 August 1997
M.U.	Institute of Health Sciences Tıbbiye Cad. Haydarpaşa - ISTANBUL	13 - 23 August 1997
M.U.	Institute of Middle Eastern and Islamic Countries Göztepe Campus Kadıköy - ISTANBUL	22 - 29 August 1997
M.U.	Institute of Social Sciences Ressam Namık İsmail Sok. No. 1 Bahçelievler - ISTANBUL	19 - 29 August 1997
M.U.	Institute for Graduate Studies in Science and Technology Göztepe Campus Kadıköy - ISTANBUL	19 - 29 August 1997
M.U.	Institute for Turkish and Turkic Studies Göztepe Campus Kadıköy - ISTANBUL	26 - 29 August 1997

QUALIFIERS

	DATE	TIME
Institute of Banking and Insurance		
Master's and Ph.D. Qualifiers	4-10 Sept. 1996	10.00
" " " Interview	4-10 Sept. 1996	14.00
Registration	16-27 Sept. 1996	
Institute of Educational Sciences		
Master's and Ph.D. Qualifiers	11 Sept. 1996	
" " " Interview	13 Sept. 1996	
Registration	19-23 Set. 1996	
European Community Institute		
Qualifier	10 Sept. 1996	9.30
Institute of Fine Arts		
Master's and Art Proficiency	11-13 Sept. 1996	
Registration	19-27 Sept. 1996	

Institute of Health Sciences		
Master's and Ph.D. Qualifiers	10 Sept. 1997	10.00
Registration	16-20 Sept. 1997	
Institute of Middle Eastern and Islamic Countries		
Master's and Ph.D. Qualifiers	18-19 Sept. 1997	10.30
Registration	23-27 Sept. 1997	
Institute of Social Sciences		
Master's and Ph.D. Qualifiers	11-13 Sept. 1997	
Registration	19-27 Sept. 1997	
Institute for Graduate Studies in Science and Technology		
Master's and Ph.D. Qualifiers	11 Sept. 1997	10.00
Institute for Turkish and Turkic Studies		
Master's and Ph.D. Qualifiers	11 Sept. 1997	10.00
" " " Interview	11-12 Sept. 1997	10.00-10.00
Registration	19-24 Sept. 1997	

3. UNIVERSITY DIRECTORY

– Administrative Departments

Rectorate	Tel:	(212) 518 16 00 (9 lines)
	Fax:	(212) 518 16 15/216 330 6022
Student Services:		(212 518 16 08
Personnel Department:		(212) 518 16 11

– Institutes

Institute of Banking and Insurance		(212) 246 47 09
Institute of Educational Sciences		(216) 347 33 66
	Fax:	(216) 347 33 66
European Community Institute		(216) 338 41 96
	Fax:	(216) 347 45 43
Institute of Fine Arts		(216) 326 52 87
	Fax:	(216) 326 52 87
Institute of Gastroentrology		(216) 339 82 57
	Fax:	(216) 325 03 23
Institute of Health Sciences		(216) 414 44 23
	Fax:	(216) 337 99 89
Institute of Middle Eastern and Islamic Countries		(216) 347 71 30
	Fax:	(216) 347 39 41
Institute of Neurological Sciences		(216) 441 44 84
	Fax:	(216) 305 79 61
Institute of Social Sciences		(212) 584 14 44
	Fax:	(212) 506 88 61
Institute for Graduate Studies in Science and Technology		(216) 338 60 55
	Fax:	(216) 336 74 68
Institute for Turkish and Turkic Studies		(216) 345 60 69
	Fax:	(216) 336 95 91

– Faculties

Atatürk Faculty of Education		(216) 345 90 90 (3 lines)
	Fax:	(216) 338 80 60
Faculty of Arts and Sciences		(216) 346 45 53
	Fax:	(216) 347 87 83

Faculty of Communication		(212) 233 04 47
	Fax:	(212) 246 74 28
Faculty of Dentistry		(212) 231 91 20
Faculty of Divinity		(216 310 53 11 (9 lines)
	Fax:	(216) 341 02 98
Faculty of Economic and Administrative Sciences		
a) Turkish Medium Departments:		(212) 507 99 25
	Fax:	(212) 505 93 32
b) English Medium Departments		336 52 73
c) French Medium Departments		(212) 223 12 37
	Fax:	(212) 252 95 44
d) German Medium Departments		(216) 332 99 29
	Fax:	(216 332 53 71
Faculty of Engineering		(216) 348 02 92
	Fax:	(216) 348 02 93
Faculty of Fine Arts		(216) 326 26 67 (4 lines)
	Fax:	(216) 339 18 83
Faculty of Health Education:		(216) 399 93 84
		(216) 399 93 71
Faculty of Law		(216) 349 84 00 (3 lines)
	Fax:	(216) 338 77 10
Faculty of Medicine:		(216) 336 02 12
	Fax:	(216) 414 47 31
Faculty of Pharmacy:		(216) 414 29 62 (3 lines)
	Fax:	(216) 345 29 52
Faculty of Technical Education		(216) 336 57 70
	Fax:	(216) 337 89 87

Schools

Vocational School of Divinity		(216) 342 61 80
Haydarpaşa School of Health Services		(216 418 23 85
	Fax:	(216) 336 51 00
Vocational School of Health Related Professions		(216) 338 27 98
Zeynep Kamil Vocational School of Health Services		(216) 342 69 18
School of Nursing		(216) 418 16 06 - 07
	Fax:	(216) 418 37 73
School of Physical Education and Sports		(216) 308 56 61
	Fax:	(216) 332 16 20

Vocational School of Social Studies	(216) 517 20 14
	Fax: (216) 517 20 12
Vocational School of Technical Studies	(216) 336 57 70
	Fax: (216) 337 89 87

Other Institutions

– Department of Atatürk Principles and the History of the Turkish Renovation	(216 346 45 53
– Department of Turkish Language	(216) 345 11 86
– Department of Foreign Languages	(216) 338 20 87 -
	(216) 348 76 33
	Fax: (216) 348 07 42

Telephone information: International code for Turkey: 90.
Istanbul area codes: European side: 212, Asian side: 216.
Local numbers on the European side begin with 2, 5 or 6, those on the Asian side with 3 or 4. For intercity calls within Turkey first dial "0", then the area code, and then the local number.
For international calls first dial "00".

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4. ACADEMIC CALENDAR

Graduate programs officially begin in October and end in January for the fall term, and begin in February and end in June for the spring term. Institutes differ slightly in their official days of opening and closure for each semester. The exact dates can be checked from the relavant institutions.

Academic Calendar for the 1996-1997 Year Graduate Programs:

Date of Opening	: 1 October 1997
Fall Semester	: 1 October 1997 - 1-9 January 1997
Mid-term Exams	: 12-24 November 1997
Retakes	: 2-9 December - 1997
Finals	: 20 - 23 January 1998
Retakes	: 2 January - 12-20 January 1997
Spring Semester	: 16 February 1998 - 9 March 1998
Mid-term Exams	: 13 April - 8 May 1998
Retakes	: 4 - 15 May 1998
Finals	: 1 June - 8 July 1998
Retakes	: 4 - 1 July - 31 July 1998

The above dates are general ones that apply to the first day on of opening and the last day of closing of all the programs offered. Students are advised to contact the respective Institutes for the exact dates.

The University is closed on Saturdays and Sundays.

Please also note that the following days are **national or religious** days of celebration in Turkey and the University is officially closed:

Dates	Occasion of Celebrtion	Total Number of Days
October 29, 1997	Independence Day of Republic	One Day
January 1, 1998	New Years Day	One Day
29 January - 1 February 1998	End of Ramadan Holiday	Three Days
April 23, 1997	Children's Day	One Day
7 April - 12 April	Religious Holiday	Four Days
May 19, 1997	National Youth and Sports Holiday in Memory of Atatürk	One Day
August 30, 1997	Victory Day	(One day)

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MARMARA
ÜNİVERSİTESİ

1. INSTITUTE OF BANKING AND INSURANCE

Director : Prof. Dr. İlhan ULUDAĞ
Assistant Director : Prof. Dr. Nazım EKREN

Language of Instruction: Turkish and English

Institute of Banking and Insurance (IBI) was established in accordance with the rules and regulations of the Marmara University presidency in 1987.

The Institute of Banking and Insurance offers graduate programs leading to the Master of Art degrees in Banking, Capital Market and Stock Exchange, Insurance and the degree of Doctor of Philosophy in Banking.

Teaching is done by nationally and internationaly renowned academicians together with experienced lecturers from financial services industry. A combination of Turkish and English is used as the medium of instruction.

In M.A. Programs, upon completion of the course work, normally in one year, the student is required to carry out a supervised research and complete a Master's thesis in at most two successive semesters. At the discretion of Executive Council of the Institute, this period may be extended by one semester.

The Ph.D. program in Banking includes a program of 48 credit hours completed in at most four successive semesters and a Ph.D. thesis to be completed in at least two, at most five semesters following the completion of course work.

BANKING

Head of Program: Prof. Dr. Nazım EKREN

MASTER'S PROGRAM IN BANKING

First Semester

Asset and Liability Management
Banking Financial Management
Central Banking in the World
Economics of Financial Services
Economy of Turkey
International Trade Finance
Marketing of Financial Services
Monetary Theory and Policies
Project Management

Second Semester

Bank Financial Analysis
Corporate Finance and Privatization
Financial Institutions and Markets
Financial Table Analysis
International Economics
Introduction to International Banking
Investment Banking
New Financial Instruments
Research Methods and Techniques
Risk Analysis in International Banking
Securitization and Bank Performance Analysis
Seminar
Theory of Finance
Turkish Banking Law and Regulations

Ph.D PROGRAM IN BANKING

First Semester

Asset and Liability Management
Banking Law
Corporate Finance
Portfolio Management
Seminar
Strategic Management in Banking

Second Semester

Central Banking
Financial Management in Banking
Financial Markets and Services
Human Resource Management
Market Analysis
New Financial Instruments
Selected Readings in Banking Literature

COURSE DESCRIPTIONS

Asset and Liability Management: This course reviews the current trends in banking regulation and their implications for asset and liabity management. It also looks at the various balance sheet risks -interest rate, foreign exchange, gap, credit, maturity.

Banking Financial Management This course aims to analyze the profitability of a bank reflected in the return of equity, impact on basic concepts in a bank's return on equity, financial factors that are specific to banks such as capital adequacy and liquidity and risk issues of off-balance sheet activities.

Bank Financial Analysis: This course examines different accounts in a balance sheet of one bank at a time. Different balance sheet accounts are taken one-by-one and studied in terms of what they are, how they contribute to a balance sheet and what is their individual significance. After a theoretical approach, calculations regarding the analysis of these balance sheet accounts are carried out.

Central Banking in the World: Different central banking practices and history and the future of central banking are studied in the context of the course.

Corporate Finance and Privatization: Some of the subjects studied under this course include the following: Introduction to capital markets and its history; various investment instruments that companies use to fulfill their financial aims; company value and optimal company structure; dividend policies of companies; mergers and acquisitions.

Economics of Financial Services: Definition of money; determinants of supply and demand for money; central banking, commercial banking and other financial intermediaries; monetary policy. Turkish data and institutions are emphasized throughout the course.

Economy of Turkey: Macroeconomic structure and problems of Turkish economy are studied in sectoral basis.

Financial Institutions and Markets: The topics discussed in this course are: Financial intermediation, functions of financial intermediaries, commercial banking system, Turkish banking system, central banking, investment banking, development banking, pension funds as financial intermediaries, insurance companies as financial intermediaries, leasing firms, factoring and forfeiting, capital market versus money market.

Financial Table Analysis: This course examines company balance sheets and income statements. Various analysis systems are introduced to help students enhance their ability to analyze and understand the financial position of a company. Different ratios are used for analyzing these financial statements and then these ratios are interpreted in terms of company's well-being.

International Economics: Some of the subjects that are studied in this course include the following: International Monetary System, Pre-Bretton Woods, Bretton Woods System, The International Monetary Fund, International Liquidity Problems, The Balance of Payments, Exchange Rate Economics, Policy Analysis, Devaluation and Revaluation.

International Trade Finance: This course identifies the risks associated in international trade finance and highlights the various funding techniques available to overcome each of them. It also discusses the function of export credit agencies and services they can offer (insurance and credits).

Introduction to International Banking: This course is intended to serve as an introduction to international banking. It begins with a brief discussion of internationalization phenomenon of the banking firm in the context of theoretical and empirical approaches. Along with international banking industry substantial emphasis is placed on international markets in which banks operate. Organizational forms of international banks and financial products and services provided are discussed.

Investment Banking: In this course financial derivative products are examined. Some of the subjects which are discussed in detail are forwards, options and swaps.

Marketing of Financial Services: This course aims to introduce the major issues involved in formulating a marketing strategy and product mix and application of these concepts in financial services.

Monetary Theory and Policies: This course covers monetary theory and policies in literature and in practices.

New Financial Instruments: In this course new financial instruments such as factoring, forfeiting and leasing are studied. Application and practice in Turkey are introduced to students.

Project Management: Project evaluation, selection and management techniques are the main subjects of the course.

Research Methods and Techniques: Main research techniques and methods are examined to give students an analytic way of thinking.

Risk Analysis in International Banking: Some of the topics studied under this course are the following: Globalization and deregulation of the financial markets, treasury bonds, securities etc.

Risk Management: It identifies the different categories of risks and examines the current methods of management of three risks such as credit risk, country risk, currency risk and interest risk.

Theory of Finance: Finance theory in advanced level is studied.

Turkish Banking Law and Regulations: This course is about procedures that should be taken in the establishment of banks in Turkey. Organizational structure of the banking system, and sources and uses of banks are discussed. Some other subjects are bank auditing, saving deposit and insurance fund, bank merger and acquisitions and credit limits.

Securitization and Bank Performance Analyses: Securitization techniques and its implications on banking sector are examined and bank performance analyses are studied.

Seminar: In this course students are required to prepare a term paper regarding different issues in banking with scientific methods. This course intends to help students in writing their master theses. Students make a presentation of their papers at the end of the year.

COURSE DESCRIPTIONS

Asset and Liability Management: This course reviews the current trends in banking regulation and their implications for asset and liability management. It also discusses the differences between a financial and a non-financial firm's balance sheets.

Banking Law: Turkish Banking Law is studied through case studies.

Central Banking: This course reviews monetary policies, central bank roles, Federal Reserve System, Bundesbank, central bank independance, central bank credibility and open market operations.

Corporate Finance: New financial market instruments, such as convertibles, note issuance facilities, American Deposit Reciept, floating-rate notes, and new financial techniques such as swap, futures, options and securitisation are studied.

Financial Management in Banking: Financial management techniques that arise from banking industry specifics are covered.

Financial Markets and Services: The course covers principal activities of commercial banks in international financial systems, regulations, deregulations, thrift institutions, non financial-based financial services organizations, stock-exchange markets and instruments, monetary policy instruments and their efficiency, foreign exchange determination in supply and demand analysis and quantity theory of money.

Human Resource Management: This course covers people (organizational behavior, expectancy theory, self-assessment ratings), personnel recruitment (personnel selection, selection decisions), performance appraisal (performance feedback), career development, coaching (decision making, group decision, problem solving), managing change (a model of change, organizational change, forces for and against change, methods of achieving change).

Market Analysis: This course consists of sectoral and firm analyses in financial institutions.

New Financial Instruments: New financial instruments, such as net issuance facilities, zero-coupon bonds, floating-rate notes, etc. are studied.

Portfolio Management: Time value of money, risk analysis and measurement, stock valuation, fundamental analysis, firm analysis, technical analysis, capital asset pricing model portfolio theory and arbitrage pricing theory are covered.

Seminar: Students are required to prepare a paper concerning the problems of Turkish Financial System and integration of financial markets.

Selected Readings in Banking Literature: Readings concerning banking literature new thinking are to be discussed.

Strategic Management in Banking: In a rapidly changing environment, importance of strategic management is emphasized and some strategies in different situations are discussed through case studies.

CAPITAL MARKET and STOCK EXCHANGE

Head of Program: Prof. Dr. İlhan ULUDAĞ

MASTER'S PROGRAM IN CAPITAL MARKET and STOCK EXCHANGE

First Semester

Accounting System and Organizations of Brokerage Houses
Capital Market Law and Regulations
New Financial Instruments
Investment Banking
Management of Investment Organizations
Quantitative Techniques
Seminar (Investment Analysis and Portfolio Management)
Stock Exchange: Regulations, Organizations

Second Semester

Advanced Forecasting Techniques
Corporate Finance and Privatization Methods
International Investments
Introduction to Investment
Istanbul Stock Exchange Market Operations
Portfolio Analysis and Asset Allocation Techniques
Reading and Understanding Financial News
The Technical Analysis of Stocks, Options and Futures

COURSE DESCRIPTIONS

Accounting System and Organizations of Brokerage Houses: This course concentrates on organization and accounting system and bookkeping aspects of accounting in brokerage house transactions.

Advanced Forecasting Techniques: The need for and role of forecasting, classification of forecasting techniques, limits of predictability, the accuracy of quantitative forecasting methods, regression methods (simple, multiple), decomposition methods, smoothing methods (simple moving averages, exponential smoothing), autoregressive/moving average.

Capital Market Law and Regulations: It explains Capital Market Act and its instruments, new decrees, legal and financial framework of Turkey's capital market.

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Corporate Finance and Privatization Methods: The course covers introduction to capital markets and their history, investment instruments of companies for investment goals, companies value, optimal company structure, dividend policy, mergers, privatization methods.

Introduction to Investment: This course reviews future contract and forward contracts, swap transactions, options, differences between future contracts and forward contracts, types of options, capital structure analysis and evaluation of companies and capacity evaluation ratios.

International Investments: The course covers multinational companies and their transactions in the world. It aims to analyze investments of these companies.

Investment Banking: In this course financial derivative products are examined. Some of the subjects which are discussed in detail are forwards, options and swaps.

Istanbul Stock Exchange Market Operations: The course covers theoretical approach: definitions of markets, types and properties (financial, money, capital markets, interrelations, primary/secondary markets), evaluation of capital markets, legal framework of Turkey's capital market, security markets of instruments, custody operations, clearing and settlement, ISE's index, transactions in different markets, buying-selling procedures, types of orders, general evaluation of performance and expectations of ISE.

Management of Investment Organizations: The course covers financial markets, financial institutions in general and Turkish financial market/institutions, organizations and management, basic managerial functions, management of financial organizations.

New Financial Instruments: In this course new financial instruments such as factoring, forfeiting and leasing are studied. Applications and practices of them in Turkey are introduced to students.

Portfolio Analysis and Asset Allocation Techniques: The course identifies the time value of money, risk analysis and measurement. It examines stock valuation fundamental analysis, technical analysis, capital asset pricing model (CAPM), and portfolio management techniques.

Quantative Techniques: Covers introduction to linear programming, theory of simplex method, duality theory, sensitivity analysis, dual simplex method and parametric linear programming.

Reading and Understanding Financial News: The course covers international financial publications, the economic climate and the investment outlook, long-term interest rates and related instruments, money market instruments and leading economic indicators.

Seminar: Investment Analysis and Portfolio Management: It covers student's studies of cases in Turkish capital markets and other financial markets.

Stock Exchange: Regulations, Organizations and Management: Financial intermediary instutions, world stock exchange, New York/London/Tokyo Stock Exchanges and their history, Istanbul Stock Exchange's management, organization, and market operations, its orders (market orders, limit orders, stop orders, opening orders, price orders), instruments of security markets, Istanbul Stock Exchange's index (composite, industrial, financial) and listing of security.

The Technical Analysis of Stocks, Options and Futures: This course aims to analyze and identify graphs and their types, to understand trends and gaps in stock exchange.

INSURANCE

Head of Program: Assist. Prof. Dr. Şevki KAYLAV

MASTER'S PROGRAM IN INSURANCE

First Semester	Second Semester
Basic Accounting	Insurance Accounting
Insurance Law	Insurance Administration and Management
Insurance Mathematics	Insurance Analysis and Statistics
Loss	Insurance Marketing
Quantitative Analysis	Life Insurance
Statistics and Demography	Marine Insurance
	Property and Liabilities
	Reinsurance

COURSE DESCRIPTIONS

Basic Accounting: The complete bookkeeping aspects of accounting, recording transactions, evaluation of equities, income statements and balance sheets are studied.

Insurance Accounting: General accounting in insurance. Auditing, solvency margin regulations and evaluation of an insurance company's financial power.

Insurance Administration and Management: The description of insurance, its branches, organization of an insurance company. The function of insurance on both micro and macro basis.

Insurance Analysis and Statistics: Using statistical techniques, the aim is to analyze insurance company's structure, its balance sheet, profit and loss sheet within the whole sector itself.

Insurance Law: The regulations that are made in insurance sector and protecting the rights of both the insurer and the insured.

Insurance Marketing: Giving students main skills in marketing, planning and implications in this sector. The strategic marketing duration, choosing the target market, service in insurance, pricing, intermediaries are some of the course subjects.

Insurance Mathematics: All the calculations that are used at insurance companies. Premium, rant, mortality calculations. Problem solving in life insurance.

Life Insurance: The description, function and types of life insurance. The pricing and administration, why there is a need, and what kind of policies the companies offer the customers.

Loss: Considering non-life branches, description of the branches, analysis of losses, payments, claims, liabilities, solutions to some cases when the insured and insurer have different judgements.

Marine Insurance: The conditions of marine insurance and the types of this insurance like shipping, Pand I etc. The legal regulations are also taken into consideration.

Property and Liabilities: The non-life branches, e.g. fire, marine, agriculture etc. Their characteristics and principles and their functions.

Quantitative Analysis: The main aim of this course is to teach students to make analysis by mathematical techniques. In this course several decision theories, simplex methods are emphasized.

Reinsurance: Definition of reinsurance, functions, methods, its history, why there is a need for insurance, its role within the sector.

Seminar: The main aim of this course is to give students some skills in the techniques of writing.

Statistics and Demography: Solving time series, trend analysis, description of regression, and correlation, aims of using these and analytical evaluation. Considering these techniques, students are expected to use these in insurance sector. Making an overall evaluation of the company within the sector.

MARMARA ÜNİVERSİTESİ

2. INSTITUTE OF EDUCATIONAL SCIENCES

Director : Prof. Dr. Ayla OKTAY
Assistant Directors : Prof. Dr. Adnan KULAKSIZOĞLU
Assoc. Prof. Dr. Adil ÇAĞLAR

The Institute of Educational Sciences was established within the Marmara University in 1992.

The main areas of activities are:

1. Organizing graduate studies in the area of educational sciences.

2. Providing and managing a framework for researches in the area of educational sciences.

3. Planning and carrying out activities such as conferences, seminars and congresses in educational sciences in order to fulfill the needs of society.

MAIN BRANCHES:
The Institute's main branches are as follows:

- Educational Sciences
- Early Childhood Education
- Adult Education
- Elementary Teacher Training
- Special Education

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Graduate programs which are planned to be established in 1995-1996 Academic Year are as follows:

- Ph.D. in Educational Sciences
- M.A. in Psychological Services in Education
- Ph.D. in Early Childhood Education(*)
- M.A. in Early Childhood Education
- M.A. in Elementary Teacher Training

EDUCATIONAL SCIENCES

Head of Program: Prof. Dr. Muhsin HESAPÇIOĞLU

Graduate programs in Educational Sciences are within the department of Educational Sciences. The M.A. program in Educational Sciences was established in 1987 while the Ph.D. program in Educational Sciences' establishment occurred at a later date, 1990 in Atatürk Faculty of Education. The required qualifications of candidates are:

- To be a graduate of B.A. and/or M.A. program in the area of Educational Sciences or a related field.

- To have minimum 65 GPA.

- To receive a passing grade in the second language test for Ph.D candidates.

After receiving a passing grade at the entrance exam, students are required to successfully complete 11 courses which are 3 credits each in both programs. They then are required to write a thesis for graduation in 3 or 6 semesters of time period depending on the degree program. The Ph.D candidates are also required to pass a comprehensive exam before proposal of the thesis.

Language of Instruction: Turkish in both programs.

MASTER'S PROGRAM IN EDUCATIONAL SCIENCES (PSYCHOLOGICAL SERVICES IN EDUCATION)

First Semester	Second Semester
Educational Statistics	Research Techniques
Individual Tests	Industrial Psychology
Vocational Guidance	Field Work
Educational Planning Seminar	Counseling Seminar
Psychology of Personality	Group Therapy
	Family Therapy

(*) This program will be started when the necessary procedures are completed.

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Ph.D PROGRAM IN EDUCATIONAL SCIENCES

First Semester

Contemporary Educational Systems
Economic Development and Education
Cognitive Psychology
Integration of Children of Special Needs
Modern Theoretical Paradigms in Education

Second Semester

Scientific Theories in Education
Development of Educational Sciences in Turkey
Modern Trends in Counseling
Social Change and Education
Advance Statistics
Human Resources Management

COURSE DESCRIPTIONS

Educational Statistics: Sampling theory, point prediction, interval scale, testing hypothesis, comparing sampling average with the average of a parameter, significance of the difference between two arithmetic averages. Correlation techniques; Pearson Correlation; phi coefficient, tetrachoric correlation; significance and correlation of point pairing series and pairing series and their significance.

Chi-Square; Adjustment of observations; measurements. Independence test of or index of. Analysis of variance. Along with the techniques students are required to study a post graduate thesis and prepare a report.

Individual Tests: Definitions of tests; characteristics of test; Types of tests and their areas of use. The differences of individual tests. Theoretical and practical application knowledge about Stanford-Binet Intelligence Test, WISC-R Intelligence Test, etc.

Vocational Guidance: Students are expected to acquire the basic knowledge and necessary skills needed in vocational guidance in secondary schools. The course mainly covers following subjects. Theories about vocational choice, Psycho technique, ergonomics, theories of intelligence, games which are helpful in self-evaluation, and probable diseases in some vocations.

Educational Planning Seminar: The concept of planning; the concept of economics planning; the concept of education planning which is a part of economics planning; the approach of economics planning, workforce planning; social demand approach; utility cost analysis; recent trends in education planning.

Psychology of Personality: The psychology of personality courses cover the theorists who approach the personality from different perspectives. These theories are discussed comparatively with at least one example and their measurement techniques are evaluated.

Research Techniques: Science and scientific methods; kinds of research, techniques of collecting data; questionnaires, observation, interview, documentary scanning; attitudes, attitude scales (Thurstone, Likert, Osgood and others). These topics

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are to be prepared as seminars by the students. Students practice data collecting techniques and constructing attitude scales. Students are also required to prepare a research proposal after they are taught about relevant concepts, principles, procedures and techniques.

Industrial Psychology: In industrial psychology class, the relations and behaviors of all personnel and groups ranging from administrator to worker are examined. Through the class a number of subjects takes places. These are, leadership, group dynamics, communication, orientation, efforts, motivation, ergonomics.

Field Work: Students are required to do field work. At the end of the term, they present a detailed report on their experiences in psychological counseling.

Counseling Seminar: The aim of this course is to provide theoretical and practical knowledge for student to gain an insight on psychological guidance and counseling. Each student is expected to prepare two papers:
1. Related to a topic psychological guidance and counseling theories.
2. Practical work in secondary schools. Papers are presented and discussed in class.

Group Therapy: Involvement of counseling in the group therapies which are commonly used in application are given theoretically in the second term of this program. Group works are given with experiments in the first term.

Family Therapy: Family counseling (both theoretical and practical); group therapy techniques; reading the relevant materials; evaluation techniques and supervision methods are discussed.

Contemporary Educational Systems: The course covers the topics of fundamentals of contemporary educational systems; comparative analysis of educational systems; trends in modernization in educational systems.

Economic Development and Education: Theories; role of education in economic development; researches on positive effects of education and current educational developments and relations are discussed.

Cognitive Psychology: An intensive study of selected topics from the areas of cognitive psychology and individual differences; group psychology; students give a seminar on educational psychology.

Integration of Children of Special Needs: Reasons and techniques of integrating exceptional children in school settings are discussed. Concept of integration in relation to family, society, industry, economy and culture are also considered.

Modern Theoretical Paradigms in Education: a) Marxism and education: Paulo Freire and problem descriptive education; Samuel Bowles/Herbert Gintis and an out-

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look to education according to social classes; Luis Althusser and education as an ideological state instrument; Nicos Poulantsoz and decentralized administration in education. b) Anarchism and education: William Godwin and the use of logic; the ideas of Marx Stirner, Catherine Baker, W. Reich, A.S. Neil, etc. will be discussed.

Scientific Theories in Education: Epistemology, inductive reasoning, dependency of observation on theory; introduction to falsification of structural theories; righteousness; realism; instrumentalism; radical instrumentalism; pluralistic realism. The reflection of scientific theories on education.

Development of Educational Sciences in Turkey: Educational sciences at the beginning of the Turkish Republic; reconstruction period; years around 1950's and today's concepts are discussed.

Modern Trends in Counseling: The purpose of this course is to consider the treatment applications of psychological theories and the projection of these theories to psychological counseling.

Social Change and Education: Definition and dimensions of sociology; critical approach to the theories of social changes; the interaction between social changes and the institute of education.

Advance Statistics: Sampling theory; testing hypothesis; significance of the difference between two correlation coefficients; Analysis of variance: one, two and three ways; nonparametrical statistical techniques: Chi-Square; point testing; median testing; analysis of covariance. Within this course, students are required to prepare a research project.

Human Resources Management: "Personnel Management" and "Human Resources Management" in contemporary organizations; student-centered organizations; the functions of human resources management; human resources management in micro level; human resources management in macro level are discussed.

ELEMENTARY TEACHER TRAINING

Head of Program: Prof. Dr. Ali Osman ÖZCAN

This program was established for the candidates who completed their B.A. in relevant areas. The Elementary Teacher Training M.A. program is run by the Elementary Teacher Training Department of Atatürk Faculty of Education and was established in 1993. Qualified candidates have to complete 28 credits and a masters thesis in a 5-semester period.

Language of Instruction: Turkish

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MASTER'S PROGRAM IN ELEMENTARY TEACHER TRAINING

First Semester	Second Semester
Curriculum Development in Science Education in Elementary Education I	Curriculum Development in Science Education in Elementary Education II
Research Methods in Education	Learning and Teaching Theories and Models
Educational Technology in Elementary Ed.	Fine Arts Education
Developmental Theories in Psychology	Educational Statistics
Management and Inspection in El. Ed	Group Dynamics and Classroom Interaction
Special Teaching Methods in El. Ed.	Theory and Application Models in Elementary Ed
Program and Curriculum Development in Elementary Ed. I	Program and Curriculum Development in Elementary Ed. II

COURSE DESCRIPTIONS

Educational Research Methods: Science and scientific methods; types of research; techniques of collecting data. Questionnaires, observations, interviews, documentary scanning; attitudes, attitude scales; thurst one, Likert, Osgood and others; these topics are to be prepared as seminars by the students. Students practice data collecting techniques and constructing attitude scales. Students are also required to prepare a research proposal after they are taught about relevant concepts, principles, procedures and techniques.

Educational Technology in Elementary Education: The principles of contemporary educational technology are discussed; the usage of educational technology in elementary education is demonstrated in class.

Developmental Theories in Psychology: Theoretical aspect of development (mechanic, eclectic and dialectic approaches), the leading psychologists and their theories in the area of development (Piagetian theory and cognitive theory, Freud and Ericson's theories of psycho-social development, ethnological approaches, Gibson's theory of perception development); critics and influences of these theories on Education.

Management and Inspection in Elementary Education: Introduction to concepts of management and inspection; comparison of understandings between hierarchical and contributory inspection approaches; legal, psychological and educational aspects of inspection; evaluation of applications in Turkish Educational System.

Teaching Methods in Elementary Education: Concepts of method, technique, tactic and strategy; classroom applications of different teaching models; evaluation of different teaching models in terms of classroom interaction; application of different models in different subjects are discussed.

Curriculum Development in Science Education in Elementary Education I-II: Evaluation of objectives, process and context of science courses in the curriculum of elementary schools; analysis of objects according to the ages of students; development of concepts of science in relation to age level.
Teaching of concept maps in science education by exploration and presentation, inductive reasoning; experiments which can easily be done in science courses in elementary schools.

Theory and Application Models in Elementary Education: Relationships among theory, model and application; samples of theory and application in Elementary schools; comparison among several countries; current situation in Turkey.

Learning and Teaching Theories and Models: Introduction to concepts of learning, teaching and education; learning theories; critics and application of these theories in education; critics of educational approaches; development of new models.

Fine Arts Education and Instruction: The historical development of fine arts; introduction to instructional curriculum and its applications, the relationship between art education and education using arts; development of creativity by means of art, development of understanding of aesthetics in child; and some projects in fine arts are discussed.

Educational Statistics: The role of statistics in education; basic concepts and techniques of statistics (sample, population, testing hypothesis, frequency, mean, percentage, correlation techniques, analysis and discussion of statistical data.

Group Dynamics and Classroom Interaction: The theoretical aspects of group dynamics; different techniques of correcting communication disorders in classroom, group dynamics and experience in guidance.

Curriculum and Curriculum Development in Elementary Education: Evaluation of curriculum; following up students' success; the recent studies in curriculum development; comparison of programs in different schools; evaluation of curriculums in Turkey.

EARLY CHILDHOOD EDUCATION

Head of Program: Prof. Dr. Ayla OKTAY

This program was established for the candidates who completed their education in the field of early-childhood education. In addition, those candidates who completed B.A. program in the areas of elementary school education, psychological services in Education, psychology and child development can apply for the program. This program is run by the Early Childhood Education Department and was first established in 1993. Qualified candi-

dates have to complete 31 credits and a master's thesis in a 5-semester period.

Language of Instruction: Turkish

MASTER'S PROGRAM IN EARLY CHILDHOOD EDUCATION

First Semester	Second Semester
Research Techniques	Research Seminar
Theories and Application Models in Early Childhood Education I	Theories and Application Models in Early Childhood Education II
Educational Statistics I	Educational Statistics II
Bio-Psychological Basis of Development I	Bio-Psychological Basis of Development II
Theories of Play and the Role of Play in Education	Creativity and Art Education
Literature and Education	Personnel Management

COURSE DESCRIPTIONS

Educational Statistics I-II: Sampling theory, testing of hypothesis: Correlation techniques, chi-square test; Analysis of variance: One way; Statistical techniques which are used in M.A. and PhD. D. Thesis.

Research Techniques: Science and scientific methods; types of research, techniques of collecting data: questionnaires, observation, interview, documentary scanning; attitudes, attitude scales (Thurstone, Likert, Osgood and others). These topics are to be prepared as seminars by the students. Students practice data collecting techniques and constructing attitude scales. Students are also required to prepare a research proposal after they are taught about relevant concepts, principles, procedures and techniques.

Bio-Psychological Basis of Development I-II: Analysis of environmental influences on development and adaptation of human organism; learning capacity; relation between environment and biological equilibrium.

Theories of Play and the Role of Play in Education: Analysis of play in education parallel to child development; theories of play; other relationships between play and developmental proces; factors which determine the types of plays; importance of plays in curriculum development; the role of adults in plays.

Creativity and Art Education: The objective of this course is to an understanding of creativity and analyzing creativity process in terms of child development. Aesthetics development is discussed. Students are required to produce some practical works and activities such as rhythm, dance, graphics, literature, puppets, rhymes, play dough which are assumed to develop creativity.

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Literature and Education: Determining the role and function of literature in pre-school level; discussing tale analysis method of Propp; application of this method on different Turkish tales; analysis of tale books in print which are prepared for pre-school children.

Research Seminar: This course is an extension of research techniques course. Students are required to develop research samples and to analyze current researches about pre-school education and early childhood.

Theories and Application Models in Pre-School Education I-II: In this course, projection of contemporary psychological educational theories on to preschool education; the importance of pre-school education in different countries; educational systems and different models in pre-school education will be discussed.

Personnel Management: Human relations in organizations; communication network, hierarchical structure; administrator-staff relations; work analysis; evaluation of performance; productivity; motivation and job satisfaction will be discussed.

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MARMARA ÜNİVERSİTESİ YAYINEVİ

3. EUROPEAN COMMUNITY INSTITUTE

Director : Prof. Dr. Arslan GÜNDÜZ
Assistant Directors : Prof. Dr. Cengiz OKMAN
Assoc. Prof. Dr. Hakan BAYKAL

Language of Instruction : Turkish, English

Only two months after the Government lodged Turkey's application for membership, the parliament of Turkey, the Turkish Grand National Assembly (T.B.M.M.), passed a law (Law No 3389, dated June 18, 1987) amending the basic Act on Universities to permit the establishment of the "European Community Institute" within Marmara University, directly linked to the president of the University.

With the passing of Law No. 3389, Marmara University became the only institution with a specialized Institute designated to offer specific courses on European integration leading to Masters and Ph.D. degrees.

Previously, graduate and post-graduate work on European integration was done within the framework of the Institute of Social Sciences of Marmara University together with many other subjects and disciplines. Now, the European Community Institute (Avrupa Topluluğu Enstitüsü) has become the center for all research, all graduate and post-graduate studies concerning the question of European integration, and offers a complete program of specialized courses and seminars dealing with the legal, political and economic aspects of the European Community.

MARMARA ÜNİVERSİTESİ ENSTİTÜSÜ

Long before the establishment of the European Community Institute, Marmara University had a well-functioning "European Documentation and Research Center" and introduced a number of specialized courses on European Integration and European Law in a number of Faculties and Departments, including the Faculty of Law and the Faculty of Economic and Administrative Studies.

In compliance with the by-law concerning prosigraduate education, the M.A. and Ph.D. students enrolled in the Institute attend courses for an academic year and afterwards prepare their M.A. and Ph.D. theses within the periods laid down by the aforementioned regulation. Most of them are regular courses which are taught every year, but some of them have been taught during one or some of the academic years since the establishment of the Institute.

The Turkish and foreign academic teaching staff of the Institution are prominent, published professionals who also teach in their respective fields.

MASTER'S PROGRAM IN EUROPEAN COMMUNITY STUDIES

First Semester

Comparative Law
The Law & Institutions of the EC
EC-Turkish Relations I
International Economics & Integration Theories I
Competition Policy of the EC I
Transport Policy of the EC
Environmental Law & Policy in the EC I
Public International Law
Turkish Private Industry and its Adaptation to EC Standards
Int. to Turkish Tax Law I
Decision Making Process in the EC: Interaction of Community Institutions
Political Economy of Turkish Foreign Policy
Macroeconomics
Budgeting and Financing in the EU I

Second Semester

The Law of Economy of the EC
European Monetary System
EC-Turkish Relations II
International Economics & Integration Theories II
Competition Policy of the EC II
International Monetary Systems
Intellectual Property Rights in the EC
Social Policy, Labour Law, Labour Relations of Turkey with Member States II
Int. to Turkish Tax Law II
Customs Union and Indirect Taxation in the EC
Budgeting and Financing in the EU II

Ph.D. PROGRAM IN EUROPEAN COMMUNITY STUDIES

The Law & Institutions of the EC I
EC-Turkish Relations I
Agricultural Policy of the EC I
Industrial Policy and Economics I
External Economic Relations of the EC I
International Taxation and Double Taxation Agreements I
Community Budget and Financing of Community Activities I
Decision Making Process in the EC
Interaction of Community Institutions
Consumer Protection in the EC and in Turkey I
European Law of Human Rights I
Fiscal Law I
Patent Licency Agreement
Privatization in Europe and Turkey I
Foreign Policy Making and the EU I

The Law & Institutions of the EC II(*)
EC-Turkish Relations II (*)
Agricultural Policy of the EC II
Industrial Policy and Economics II
External Economic Relations of the EC II
International Taxation and Double Taxation Agreements II
Community Budget and Financing of Community Activities II
European Company Law and Securities Regulation
Consumer Protection in the EC and in Turkey II
European Law of Human Rights II
Fiscal Law II
Political Economy of International Relations
Privatization in Europe and Turkey II
Foreign Policy Making and the EU II

COURSE DESCRIPTIONS

Introduction to Turkish Public Law
State: Elements of State: territory, nation, sovereignty.

Forms of State: Unitary State, Composite States: Confederations, Federations.

Bodies of State: The legislative branch - legislative functions; the executive branch - the executive functions; the judicial branch - judicial functions and a comparison between those organs and the institutions of the European Community.

The Sources of Law: Constitution, Statutes, Regulations, By-Laws and a comparison between those sources and the Directives, Regulations, Decisions, Recommendations and opinions of the institutions of the Community.

Comparative Law: Concept of comparative law; Sources and structure of law; classification of Law; Romano-Germanic family; French Law, German Law, Common Law; Muslim Law; specific topics for comparative study; concept of pre-contractual liability (culpa in contrahendo); negligence in the Civil Law and Common Law Systems; Liability without fault (vicarious liability; traffic accidents liability).

Macroeconomics: Theory of the Firm; classifications in macroeconomics; history of macroeconomics; Keynesian Theory: 1-Multiplier effect, 2-Keynesian view of aggregate demand; classical macroeconomics, macroeconomic policies in the Member States of the EC.

(*) Prerequsite for students who have not taken them in the MA program

MARMARA ÜNİVERSİTESİ

The Law and Institutions of the European Community: West European integration: Council of Europe, NATO, Coal and Steel Community, Euratom, EEC, the legal concept and status of the Communities; External Relations and EPC; Sources of Community Law; Treaties, Community legislation, Case Law. The institutions: their functions and powers; the decision-making process; the role of the European Court; Implementation and enforcement of Community Law; Relationship between Community and National Law.

The Law of Economy of the European Community: Concept and scope of the Law of Economy; Economic objectives of the three Communities; the Common Market of the EEC-Internal Trade, External Trade, Common Commercial Policy; Movement of Persons, Immigration, Social Security, Freedom of establishment, Freedom to provide services, Movement of Capital, Common Agricultural Policy and Fisheries, Transport Policy, Competition Policy, Tax provisions, Approximation of Laws, Social policy, Consequential policies, Consumer protection, Education and Culture, Energy.

EC-Turkish Relations I - II: Turkey's place in Europe from a historical point of view; Turkey's application for association in 1959; Political issues of Association Agreement and Turkey's Accession; indepth analysis of the Association Agreement and Additional Protocol; Turkey's application for full membership.

Relations of Turkey With Member States I - II: Elaboration of External Relations of Turkey with the individual Member States of the European Union.

International Economics and Integration Theories I - II:

1 – Theories of International Trade
   - Comperative advantage and international division of labour.
   - Gains from free trade.

2 – Exchange rate determination
   - Implication of exchange rates determination for international trade.

3 – International payment, Macro analysis of Internal and External equilibrium.

4 – Departures from free trade.
   - Interventionist trade policies.
   - Import controls and domestic applications.

5 – Economic integration
   - Trade diversion, trade creation and theory of integration.
   - Implications of economic integration for domestic development.

European Monetary System: Origins of the EMS, Monetary Developments in the EC, European Monetary Union. Working mechanism of the EMS, exchange rate mechanism, ECU, credit facilities, performance evaluation, liberalization of capital controls and the EMS, assessment of Turkey's possible membership in the EMS.

Social Policy, Labour Law, Labour Market and Free Movement of Workers in the EC:

1 – Essential parts of Community law relating to employment, labour market, working conditions and social policy
The freedom to move for workers; Art. 48 EEC-Treaty, Council Reg. No. 1612/68;
Community measures in the field of social security for migrant workers; Art. 51 of EEC-Treaty, Council Reg. No. 1408/71.
The impact of Community Law on the approximation of labour law of the Member States, conditions of the contracts of employment, co-determination, equal treatment for men and women, workplace environment-Art. 100, 117, 120 of EEC Treaty.
The European Social Fund, Art. 123-128 of EEC-Treaty.
The Council Resolution on a social action program of 1974.

2 – An analysis of the Demirel Judgement of 30 Sept. 1987 of the European Court of Justice; Case 12/86, relating to Art. 12 of the Association Agreement.

3 – The "social dimension" of the European Community.

Competition Policy of The European Community I - II: An indepth study of articles 85 and 86; concept of free trade between Member States, agreements between undertakings; concerted practices; distortion of competition and its effects on trade between Member States; relevant markets; associations of undertakings; abuse of dominant positions; sanctions and penalties; state aids and role and place of public undertakings within the Community.

Intellectual Property Rights in the EC I - II: A general introduction to the issues of intellectual property for the non-lawyers describing national and international legislation, the early EC cases interpreting Treaty articles pertaining to intellectual property, relevant patent conventions, proposed trademark legislation, current issues in this field, in particular those pertaining to copyright such as piracy, home copying, computer related products and biotechnology.

Transport Policy of the EC: Framework, guidelines and content of European Transport Policy, international institutions, transport rates and conditions, harmonization of conditions of competition, transport infrastructure, technical standardization, combined transport, sea and air transport, rail transport, ports, inland and related problems.

Environmental Law and Policy in the EC I - II: The political basis for environmental action by the European Community. The four periods in the development of Community policy, focusing on the fourth Environmental Action Program and the issues: a) internal (e.g. pollution of the Rhine); b) universal (ozone); and, c) inter-state (dumping of EC waste in non-member states); Environmental problems resulting from CAP and other selected topics (e.g. waste pollution, deforestation and the greenhouse effect).

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Public International Law: Sources of International Law; relations between international law and national law, with special emphasis on the operation of the EC law within national systems; subjects of international law, with special reference to international institutions; jurisdiction and exemption from jurisdiction (jurisdictional immunities); law of treaties with special reference to the treaties of the EC; the law of the sea; peaceful settlement of international disputes.

Agricultural Policy of the European Community I - II: A brief information on the historical development of CAP, the aims of the CAP, its basic policy tools, price concepts and price mechanism of the CAP, monetary compensatory amounts, decision-making process of the CAP.

Turkish Private Industry and Its Adaptation to European Community Standards:
1 - The position of Turkish industry vis-a-vis the EC on Macroeconomics basis.
a. Forecasts of significant macroeconomic quantities which influence our industry with regard to the EC.
b. Forecasts of governmental policies, taking into consideration the process of adaptation to the EC. (The policies of finance, money, customs, economic incentives and exchange rates).
2 - The position of Turkish industry vis-a-vis the EC on Microeconomic basis:
a. A systematic study with a view to determining the power of any industry or a product to compete under the existing circumstances.
b. Determination of the measures to be taken in order to adapt to EC.

Industrial Policy and Economics I - II: A perspective of Industrial Economics: Relevant theoretical background; The identification and measurement of monopoly power; Scale economies and capital requirements; Industrial concentration; Market structure and technological change; Integration, diversification and merger; Selected issues; The implications of Industrial Economics in respect of Turkish Economy and the EC.

European Company Law and Securities Regulations: Directives on various enterprises; Structures of companies; mergers of corporations; European Economic Cooperation Grouping; Proposed status for the Societas Europa (European Company), employee participation and company structure (Vredeling proposals and thereafter), European Community and the Multinationals, Securities Regulation, Prospectus, Admission to Stock Exchange Listing, Accounting Directives, Mutual Funds, Take-over Bids, Insider Trading.

European Law of Human Rights: Background to the preparation of the European Convention on Human Rights; Rights and Freedoms as guaranteed in the Convention; the enforcement mechanism: the European Commission on Human Rights, the European Court of Human Rights and the Council of Ministers; the built-in restrictions in the particular articles of the Convention; restrictions for the protection of others; protection of Human Rights within the European Community.

MARMARA ÜNİVERSİTESİ YAYINEVİ

Customs Union and Indirect Taxation in the European Community: History of customs unions in the EC; types of taxes (concerning customs): 1 - tariffs, 2 - nomenclature, 3 - computerization; references to the Treaty of Rome and GATT (definition value); directives, regulations; origin of goods; obstacles to free movement of goods; internal market (white paper); recent developments.

Banking Regulations in the European Community: Directives on the coordination of laws relating to the business of credit institutions: abolition of restrictions on freedom of establishment and freedom to provide services in respect of self-employed activities of banks and other financial institutions: Supervision of credit institutions on a consolidated basis; annual accounts and consolidated accounts of banks and other financial institutions; Commission recommendations on monitoring and controlling large exposures of credit institutions, proposals on solvency ratios, coordination of banking legislation, reorganization and the winding up of credit institutions, mortgage credits, own funds of credit institutions.

External Economic Relations of the European Community: Community's external relations: relations with Japan and U.S.A., Community and GATT; Community Mediterranean Policy, Lome Convention and ACP states, Community and Association Agreements; Malta, Cyprus; Community and Latin America; Role of Spain; Euro-Arab dialogue; EC and Eastern Europe; Community and other bilateral and multilateral relations.

Introduction to Turkish Tax Law I - II: Analysis of basic principles of Turkish Tax Law, income tax, corporate tax (institutional tax), corporate income, taxation of dividends compared with tax systems of other European countries, procedural aspects, tax courts and other related issues.

International Taxation and Double Taxation Agreements I - II: The first part of this course will focus on the principles of international taxation, multinational enterprises, tax havens whereas the second part will be devoted to double taxation agreements and case studies.

Seminar on Public Finance and Taxation: This seminar will focus on public finance systems of various Member States with emphasis on advanced taxation problems.

Community Budget and Financing of Community Activities I - II: An indepth analysis of Community budget procedure, Commission, Council and the role of the European Parliament, Sources of Community income, expenditure, Court of Auditors and related issues.

Decision-Making Process in the EC: Interaction of Community Institutions: Simulated program on the Community decision-making process, the role of various actors in European framework, pressure groups, lobbying and Community institutions.

MARMARA ÜNİVERSİTESİ VAKFI

European Community and International Law: Special Seminar: Specific problems concerning the EC: international personality of the EC and related issues, treaty-making power of the EC with special emphasis on Treaties of Accession, an indepth analysis of previous Treaties of Accession (Spain, Portugal, Greece, U.K., Ireland, DK).

Defense of Europe: Security Cooperation and North Atlantic Treaty Organisation: Historical background to the Alliance; the North Atlantic Treaty and its compatibility with the Charter of United Nations; the principles and scope of the North Atlantic Organization; NATO as a defense organization; structure of NATO; Defence planning and defence support in NATO; 1 - New developments in the Eastern Europe and defence planning; 2 - Disarmament and defence planning; Non-Governmental Activities of NATO: The North Atlantic Assembly and the North Atlantic Association; relations with UN and the CSCE.

Western European Union (WEU): Orgins of W.E.U. Signature of the Brussels Treaty of 17 March 1948; the principles and scope of the Brussels Treaty; the organs of W.E.U.; Decline of W.E.U. after establishment of NATO; New needs and tendencies to revive W.E.U; the Maastricht Treaty, provisions concerning CFSP of the EU.

Political Economy of Turkish Foreign Policy: International Economic Relations; evolution of international monetary system; foreign economic policy; external economic objects; international trade; politics of interdependence; liberal and radical economic thought; mechanisms of Foreign Policy.

Consumer Protection in the EC and in Turkey: Consumer policies; notion of consumer; the contents and criticism of Turkish consumer protection law; comparison with EC.

Political Economy of International Relations: Convergence of economy and politics; international trade and economic relations; evolution of international monetary system; new concepts in international relations; politics of interdependence; liberal and radical economic thought; alternative peredigms.

Foreign Policy Making and the EU I-II: Concept of foreign policy; decision-making process; the actors involved in foreign policy making; idealist, realist and behavioralist schools of thought.

Fiscal Law I-II: System of taxation; basic concepts, principles and implementation; the issue of the harmonization in the European Union; the Customs Union and taxation.

Patent Licency Agreements: Patents in the European Union; international agreements on patents; basic concepts and definitions; principles and implementation; impact of competition law on patent licensing agreements.

Privatization in Europe and Turkey I-II: Experience of privatization in European countries; aims and methods of privatization; case of Britain; privatization in Turkey; evaluation and criticism; alternative strategies for privatization.

Budgeting and Financing in the EU I-II: The finances of EU; the budgetery mechanism; contributions to and allocations from the budget; impact of EU institutions and the member states on the budgetery process; structural funds.

4. INSTITUTE OF FINE ARTS

Director : Prof. Dr. Şermin ALYANAK
Assistant Director : Prof. Dr. Ateş ARCASOY

Language of Instruction: Turkish

Institute of Fine Arts is established under the Legislation Nr. 3837 date 3.07.1992. The objective of the Institute of Fine Arts is to conduct research and scientific activities in the field of Visual arts and/or design. The Institute of Fine Arts is cooperating with the Institute of Social Sciences to maintain the standarts and accreditation of the Art and Design Courses in graduate and post-graduate level.

The Institute is active within the Acibadem Campus of Faculty of Fine Arts, as an Institution of the Marmara University Rectorate.

MARMARA ÜNİVERSİTESİ YAYINEVİ

CERAMIC AND GLASS

Head of Program : Prof. Dr. Tankut ÖKTEM

Ceramics and Glass Department provides graduate and post-graduate courses following a completed graduate program. The department aims to educate students as designers and outstanding artists with excellent aesthetic and technical knowledge for industrial ceramics design and artistic ceramic design. Graduate students are expected to make their choices between "Artistic Ceramic Design" and the "Industrial Ceramic Design" and the "Glass Design". In addition to these, they can develop their skills and knowledge in one of the following branches, Ceramic Technology, Technical Decoration and Surface Designing. The Ceramics and Glass Department is a member of International Cermics Academy (I.A.C.) a consultative statute with UNESCO since 1986, of which administrative center is located in Switzerland.

MASTER'S PROGRAM IN CERAMIC AND GLASS

First Semester	Second Semester
Artistic Ceramic Design I	Artistic Ceramic Design II
Industrial Ceramic Design I	Industrial Cremaic Design II
Glass Design I	Glass Design II
Contemporary Ceramic Materials I	Contemporary Ceramic Materials II
Artistic Ceramic in Architecture I	Artistic Ceramic in Architecture II
Technical Decor I	Technical Decor II
Industrial Cast Techniques I	Industrial Cast Techniques II
Technological Research I	Technological Research II
Theory of Art I	Theory of Art II
Electives	**Electives**
Design Theory I	Design Theory II
History of Thought I	History of Thought II

The students have to accomplish the tutorial courses that they have to choose from three programs: "Artistic Ceramic", "Industrial Ceramic" and "Glass Design". The second year is dedicated to the final Design Project, research report and thesis in the chosen field.

Ph.D. PROGRAM IN CERAMIC AND GLASS

First Semester	Second Semester
History of Thought I	History of Thought II
Philosophy of Art I	Philosophy of Art II
Sociology of Art I	Sociology of Art II
Electives	**Electives**
Artistic Ceramic Design I	Artistic Ceramic Design II
Industrial Ceramic Design I	Industrial Ceramic Design II
Technology I	Technology II
Basic Art Education I	Basic Art Education II

After having accomplished the taught courses, each student is expected to propose a subject to his/her personal supervisor who is a full time lecturer in the Department of Ceramic and Glass and carry out a project and a written dissertation in the following four semesters.

COURSE DESCRIPTIONS

Artistic Ceramic Design I-II (MA, Ph.D.): The aim of these courses are designing of vessels-form, sculpture or mirror with different clays using different firing and glazing techniques.

Industrial Ceramic Design I-II (MA, Ph.D.): The aim of these courses are designing of the functioning-ware or unfunctioning-ware with different clays, for mass-production using different firing and glazing techniques.

Glass Design I-II (MA, Ph.D.): The aim of these courses are designing vessel, mirror or sculpture forms using different glass-forming methods.

Artistic Ceramic in Architecture I-II (MA): The aim of this course is designing ceramics for architecture (mirors, sculptures) and to teach the mounting techniques.

Industrial Cast Techniques I-II (MA): The aim of this course is to teach how to work and form with plaster and make casts for mass-production.

Technical Decor I-II (MA): The aim of this course is to teach the techniques like: Luster, silkscreening-decals (underglaze decals, watermount-decals, studiomade-decals) contact printing methods, projected transparency methods, projected negative methods.

Technological Research I-II (MA): In this course the students can research different new glazes, clay bodies, stains and angobs.

Technology I-II (Ph.D): This course gives the theoretical knowledge about the ceramics technology.

Contemporary Ceramic Materials I-II (MA): The behavior and properties of ceramics and composites are treated comprehensively. Development of personal research through experimentation and exploration of contemporary techniques.

Sociology of Art I-II (Ph.D.): The Art Sociology concerning the master as well as doctorate level program is developed in close connection with the History of Ideas. The social background of artistic works in their formal and substantial configuration and the reception of the artistic productions constitute the main topics elaborated. The liberty, originality and responsibility of the artists living and creating in visible and invisible frameworks of industrialized societies play an important part in the program.

MARMARA ÜNİVERSİTESİ YAYINEVİ

Philosophy of Art I-II (Ph.D.): Various theories and schools of thought about the essence of art and artistic creation starting from antiquity down to present day are examined; mimesis, ontological theories, a.o.

FILM-TV

Head of Program: Prof. Dr. Zafer DOĞAN

Specialization in certain fields according to students' backgrounds preferences to enable students to reach their goals in terms of theoretical, technical and creative aspects, that is to have them to prepare their final project, a short film with comprehensive theoretical document, taking all these aspects into account. More emphasis on theoretical, aesthetic, critical aspects of various genres ranging from documentaries to dramas and experimental films. The proficiency degree is equivalent to the degree of Ph.D.

MASTER'S PROGRAM IN FILM-TV

First Semester	Second Semester
Film Production I	Film Production II
Film Semiology I	Film semiology II
Theory of Art I	Theory of Art II
Techniques of Film-TV I	Techniques of Film-TV II
Art and Censorship I	Art and Censorship II
Mass Culture I	Mass Culture II
Visual Editing I	Visual Editing II

Taking all these aspects of first year into account, students prepare their final project, a short film with comprehensive theoretical document.

Ph.D. PROGRAM IN FILM-TV

First Semester	Second Semester
Film Production Problems I	Film Production Problems II
Acting I	Acting II
Modern Cinema I	Modern Cinema II
Film Criticism I	Film Criticism II
Basic Principles of Cinema I	Basic Principles of Cinema II
Audio-Visual Editing I	Audio-Visual Editing II

After having accomplished the taught courses each student is expected to prepare a film as a final project, which should be supported by comprehensive theoretical document in the following four semesters.

MARMARA ÜNİVERSİTESİ NEVİ

COURSE DESCRIPTIONS

Film Production I-II (MA): Pre-production stages are practised in fiction, documentary and experimental film categories, through the analysis of creative and technical groups' work.

Film Semiology I-II (MA): This course provides an approach to fundamental linguistic and semiological concepts, perception codes, cinema and language, signs, denotation and connotation, paradigm and syntagm. Comprehensive system of signs: Peirce, an approach towards connotation through this system, syntax, codes, mise en scene, sound, montage are the basic headlines of this course.

Theory of Art I-II (MA): This course is to provide the recognition of values and criterias in art; analyzing aspects like aesthetic (beauty) and goodness, righteousness. Theory of reflection in art, Plato, Aristoteles a.o. Contemporary interpretations about the concept of beauty; in nature and in art. Properties and definitions of aesthetic values.

Techniques of Film-TV I-II (MA): This course provides a general approach to headlines like film script-dramatic elements, lighting, dramatic lighting, sound and music in film, film grammar, editing, acting, art direction and camera.

Art and Censorship I-II (MA): Although the emphasis is on film, censorship in all arts is also studied in this course. A general study of elements and systems is given first and then regulations and practise in Turkey are dealt with.

Mass Culture I-II (MA): Alongside with elitist culture (intellectuals' culture), popular culture and folklore are also studied. Music, literature and other arts, but primarily film and TV. Formation of mass culture and arabesque in social life. How mass culture can be made more refined.

Visual Editing I-II (MA): This course covers, research in the nature of editing, environmental perception and communication with the environment, film and perception of film by the audience, basic functions connecting shots, basic ten functions of editing two consecutive shots, contemporary editing forms and editing problems in contemporary cinema.

Film Production Problems I-II (Ph.D.): Pre-production, production and post-production, their characteristics and analysis, budget work, all these subjects are studied and practical work made in fiction, documentary and experimental film categories.

Acting I-II (Ph.D.): Study of Stanislavsky and Lee Strasberg Methods. New theories on film.

Modern Cinema I-II (Ph.D.): A general, historical view: Bazin, classical aesthetic, determining the period: End of the Second World War and the 60's, wide screen, ci-

nema verite, documentary film of ideas, new wave, personal cinema in the 60's, Truffaut, Goddard, Resnais, Antonioni; these are the main subjects of this course.

Film Criticism I-II (Ph.D.): Nature of film criticism in general. Methods and elements. Criticism of writings. All these subjects are studied through Western and Turkish bibliography.

Basic Principles of Film I-II (Ph.D.): Information is given on all the elements of film art through Western bibliography. Processes of shooting and editing are specialy studied. Technology, film and the other arts. Problems of film art arising from its competition with TV. How film art copes with these problems.

Audio-Visual Editing I-II (Ph.D.): This course is based on three main headlines. Dramatic editing of film covers; sequential editing, parallel editing and elliptical editing. Editing and filmic time covers; Scene as an element of editing, editing scenes with or without action, editing images with dialogue, music and effects, synchronization, editing in scenes with crowds and the importance of color in editing. Editing within the shot.

GRAPHIC ARTS

Head of Program: Prof. Dr. Fevzi KARAKOÇ

Graphic Arts Department has a wide spectrum within the contemporary message media, laying emphasis on conceptualising and design. This branch of art and design, embracing rich graphic medias in itself is one of the most important factors of the message world. The students trained with technical knowledge and graphic formation are expected to concentrate on Advertising Art Design or Publication Design. The graduate and post-graduate courses in Graphic Arts aim to produce outstanding graduates who will be leading practitioners in design practice and concultancy, publishing, art direction and advertising. The students are expected to broaden their skills and understanding of visual forms and their aesthetic functions, related to visual communication and to develop their essential competencies with ability to solve communication problems and to determine design priorities and alternatives.

MARMARA ÜNİVERSİTESİ

MASTER'S PROGRAM IN ADVERTISING DESIGN

First Semester	Second Semester
Media Graphics I	Media Graphics II
Packaging Design I	Packaging Design II
Art Theory I	Art Theory II
History of Thought I	History of Thought II
Computer Related Design I	Computer Related Design II
Semiotic Design I	Semiotic Design II

MASTER'S PROGRAM IN PUBLICATION DESIGN

First Semester	Second Semester
Publication Graphics I	Publication Graphics II
Illustration I	Illustration II
Art of Printing	Art of Printing II
Art Theory I	Art Theory II
History of Thought I	History of Thought II
Electives	**Electives**
Computer Related Design I	Computer Related Design II

Second year is dedicated to the Final Art Work/Design Project, research report and thesis.

Ph.D. PROGRAM IN GRAPHIC ARTS

First Semester	Second Semester
History of Thought I	History of Thought II
Publication Graphics I	Publication Graphics II
Illustration I	Illustration II
Advertising Graphics I	Advertising Graphics II
Lettering and Typography I	Lettering and Typography II
Electives	**Electives**
Advertising I	Advertising II

After having accomplished the taught courses, each student is expected to propose a subject to his/her personal supervisor, who is a fulltime lecturer in the Department of Graphic Arts, and carry out a project/art work and a written dissertation in his/her chosen field in the following four semesters.

COURSE DESCRIPTIONS

Advertising Graphics I-II (MA, Ph.D.): The aim of the course is to supplement the students with the researches to create new communication forms and graphic design studies which will provide visual communication on the basis of production, marketing, consumer psychology motivations

Package Design I-II (MA): Course examines the marketing of a product line through packaging. Students learn market analysis, exploration of packaging materials and processes, developing typographic and graphic solutions, and presentation of production procedures.

Lettering and Typography I-II (MA, Ph.D.): Designed to give an introduction to the dynamics involved with contemporary typography through the hands-on study of the classics. Involves the study of shapes, weights and conceptual qualities of typographic alphabets; typographic specifications for Advertising and Graphic Design purposes.

Computer Aided Design I-II (MA): The course covers symmetry, pattern, shape and graphic theory. Two or three dimensional design concepts are demonstrated through basic systems.

Publication Graphics I-II (MA, Ph.D.): Course investigates the specific aspects of magazine concepts and design as they relate to the projected reader/audience/market. Development of strong, identifiable format structure that is linked to the response of the readership, both intellectually and emotionally.

Illustration I-II (MA, Ph.D.): A course designed to explore several techniques used in illustration today. It starts with black and white and goes through opaque to translucent media in color. The principles of each medium is assigned. Control of the media and tools involved are stresses, enabling students to utilize the image making techniques.

Art of Printing I-II (MA, Ph.D.): The student is taught the different techniques of engraving, litography, wood-cut, linoleum, mono-print through form and color education.

Advertising I-II (MA, Ph.D.): The student are donated with the methods, and organization of advertising units, its relation with art and theory and the importance of advertising in the society and economy.

Media Graphic I-II (MA): The students are motivated to carry out graphic design studies related to newspaper, magazine advertisings, poster, brochure, outdoor (billboard, busboard, sticker, etc.) and POB material.

Semiotic Design I-II (MA): The Semiotic Design covers the resemblence of concepts into symbols within the context of message and interpretation relationship. In relation to semiotic design, various areas such as media, consumer goods, cultural and social subjects, emblem designs to be designed for firms and trade-mark images and pictograms. The aim of the course is to teach the students to evaluate all the concepts in graphic art interpretations.

INDUSTRIAL DESIGN

Head of Program: Prof. Dr. Şermin ALYANAK

The Department of Industrial Design offers a two-year degree program leading to MA and Ph.D. maximum four years program. Aim of these courses is to explore the philosophy and the practise of Industrial Design. The students are encouraged to develop a broader understanding of the collaborative nature of Industrial Design taking courses and projects in Industrial Design and related disciplines. The students develop personal design skills, problem solving techniques, material and manufacturing knowledge, while they are expected to gain awareness of human behavior, changes in social values, quality and performance of products.

MASTER'S PROGRAM IN INDUSTRIAL DESIGN

First Semester	Second Semester
Industrial Design I	Industrial Design II
Material and Production Techniques	Production Management and Planning
Design Theory I	Design Theory II
Research Methodology	Ergonomics
Human Behavior	Introduction to Computers
History of Thought I	History of Thought II
Theory of Art I	Theory of Art II
Electives	**Electives**
Design Management I	Design Management II
Design History I	Design History II
Design Presentation Techniques I	Design Presentation Techniques II

Second year is dedicated to the Final Design Project, research report and thesis. After the presentation of the project and thesis degree examination will take place.

Ph.D. PROGRAM IN INDUSTRIAL DESIGN

First Semester	Second Semester
Industrial Design I	Industrial Design II
Advertising I	Advertising II
Principles of Marketing I	Principles of Marketing II
XX. Century Design I	XX. Century Design II
Electives	**Electives**
Design Management I	Design Management II
History of Thought I	History of Thought II
Computer Related Design I	Computer Related Design II
Semiology I	Semiology II
Introduction to EEC Relations I	Introduction to EEC Relations II
Introduction to Management I	Introduction to Management II

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After having accomplished the taught courses each student is expected to propose a subject to his or her personal supervisor, who is a full time lecturer in the Industrial Design Department, and carry out a project and a written dissertation in the following four semesters.

COURSE DESCRIPTIONS

Industrial Design I-II (MA, Ph.D.): A survey of main problems in Industrial Design and developing an advanced problem solving skill and professional practise within the program of self initiated and professionally linked projects. The preparation of the chosen projects are to be followed by a brief identification and writing. In the second semester the emphasis is on research and exploration of Industrial Design.

Ergonomics (MA): Ergonomics is the study of man in his working environment; consequently this course wil be concerned with man at work, and particularly with the design of work places and the relation of man and equipment.

Material and Production Techniques (MA): This course is built on the information and understanding of materials properties, selection of the appropriate materials and processes for manufacturing, in accordance with the quantity of production in designing industrial products.

Production Management and Planning (MA): An introductory course on production management, which is designed to give the basic information about procedures for decision making when setting up a production unit and managing it afterwards planning short and long term strategies.

Design Theory I-II (MA): Design Theory course introduces a theoretical and critical approach to design problems. The main framework covers of design, general aspects of design and their functions, design methodologies, semantic structure and visual communication, design process and creative methods. This course is prerequisite for Industrial Design Department students and elective for other art and design related departments.

Design Management I-II (MA, Ph.D.): Industrial products face the hardest competition among the domestic ones in terms of design, which tends to follow the path, which is drawn, by multinational companies. The students having skills and techniques for designing industrial products, should realize that managerial skills and techniques need to be known as well. The students wil be equipped to participate to groups of people, a multi disciplinary design teamwork, product marketing a design activity at different levels of industry.

History of Thought I-II (MA): The History of Thought course for MA degree students consists in a series of lectures studying some representative intellectual currents as well as philosophers, scientists and artists. The method of lectures is mainly based on mutual relationship between Ideas and Arts, according to the scholarly

needs of students, in order to contribute to their maturity and inventiveness in Art and Design, respectively in Graphic Art, Painting, Sculpture and Industrial Design Departments.

Design History I-II (MA): Design History is based on lectures having a different historical focus with social-economic and cultural background covering pre-industrial area, first and second industrial revolution, late XIX. Century and XX. Century studies. Aim of the lectures and seminars is to explore the nature of design shaped by social-economic and political forces. Changes in production, consumption, aesthetic and ethical criteriss are within the research program.

Design Presentation Techniques I-II (MA): The students are encouraged to develop their freehand drawing, technical drawing and graphical presentation skills using different medias and techniques. Teaching is by demonstration and practical exercise. It is a compulsory course especially for those students coming from other disciplines than Industrial Design.

Theory of Art I-II (MA): This course is to provide the recognition of values and criteriss in art; analyzing aspects like aesthetic (beauty) and goodness, righteousness, usefulness. Theory of reflection in art. Plato, Aristoteles a.o.. Contemporary interpretations about the concept of beauty, in nature and in art. Properties and definitions of aesthetic values.

Introduction to Computers (MA): This course is based on recognition of operating systems, which simplify certain tasks, students wil perform with computer. Creating files, entering data or commands, organizing and storing files, recalling and displaying file contents a.o. are the basic headlines which this course is focused on.

Research Methodology (MA): The methods, approaches and techniques of social research, the universal method of social sciences: observation, hypothesis, testing and generalitazions. Research design and individual steps of social research in planning sampling data collection and processing evaluation, research report.

Human Behavior (MA): This course generally analyses the human perception systems to provide a relation between behavior and requirements, which supports the students in creating new design models.

History of Thought I-II (Ph.D.): History of Thought course destined to PhD in Arts students examine some characteristic intellectual periods of mankind, such as the Greek Antiquity, Renaissance, the Modern Times and the Contemporary World. The program is executed in form of seminars, where selected texts are interpreted and discussed. The aim of class discussions being the fructification of thinking and creating activities in Departments of Graphic Art, Painting, Sculpture and Industrial Design.

Advertising I-II (Ph.D.): This course covers an overview of marketing communication, advertising, product, price, promotion, consumer propositions, and other in-

portant headlines of this area. Practicing to create a good advertising, studying methods of marketing communication provides students to define another approach to design methods.

Principles of Marketing (Ph.D.): This course program covers an overview of marketing, production decisions, developing and managing products, marketing channels, wholesaling, retailing, physical distribution management, promotion strategy, advertising and public relations, pricing concepts.

XX. Century Design I-II (Ph.D.): A lecture and seminar program covering late XIX Century design and design history research and interpretation. Social and economic context, study of objects in relevance of manufacturing technology, emerging theories and changes in taste are approached.

Introduction to EEC Relations I-II (Ph.D.): The Seminar in European Economic Community Policies is to be devoted to a detailed study of individual research on certain EEC policies concerning Turkey. Each student will prepare a paper for each semester. The student will have guidance in his/her research and will write regular progress reports, so that specific problems and aspects of his/her work can be discussed.

Semiology I-II (Ph.D.): This course starts with a general introduction to semiology and covers non-verbal systems, semiology in architecture and urbanistic, analysis and development of signs and other meanings. The basic knowledge of semiotical theories are applied to a historical example as signification and as symbol.

Computer Related Design I-II (Ph.D.): This course introduces the students how to use computers with the skills of designers and artists and problematic of the electronic information environment. The students are encouraged to use computers as a design tool understanding the range of actual and potential computer applications.

INTERIOR DESIGN

Head of Program: Prof. Dr. Nurten Unansal

Interior Design adresses the visual, technical and aesthetic aspects of inhabited places, within a wide variety of residential and nonresidential areas. Studies in Interior Design involve the integration of art and design concepts, space analysis and planning, understanding the technical issues of human factors and environmental control systems and knowledge of materials, furnishing and construction to produce interior environments. The students in the graduate and post-graduate studies are expected to broaden their skills and in-depth knowledge of the aesthetic properties of structure and the ability to communicate concepts and requirements within a broad spectrum.

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MASTER'S PROGRAM IN INTERIOR DESIGN

First Semester	Second Semester
Interior Design and Design Principles I	Interior Design and Design Principles II
Interior Design Principles and Env. Relations	Space Color Material
Architecture-Social Space and Design I	Architecture-Social Space and Design II
Theory of Art I	Theory of Art II
Design Theory I	Design Theory II
Research Methodology	
Electives	**Electives**
Building Construction I	Building Construction II
Furniture Design and Principles I	Furniture Design and Principles II
Restoration	Theories on Restoration and Preservation

After having accomplished the tutorial courses the students are expected to do their final Design Project, research and thesis.

Ph.D. PROGRAM IN INTERIOR DESIGN

First Semester	Second Semester
Interior Design and Design Principles I	Interior Design and Design Principles II
History of Interior and Architectural Design I	History of Interior and Architectural Design II
History of Thought I	History of Thought II
Analysis of Interior and Exterior Space I	Analysis of Interior and Exterior Space II
Furniture Design and Principles I	Furniture Design and Principles II
Space and Light	

After having accomplished the taught courses each student is expected to propose a subject to his/her personal supervisor, who is a full time lecturer in the Department of Interior Design and carry out a project and a written dissertation in the following four semesters.

COURSE DESCRIPTIONS

Interior Design and Design Principles I-II (MA, Ph.D.): The aim of this course is to develop the creative ability, technical knowledge and competence in the field of Interior Design, with reference to the subject areas of interior space and built form. It entails the broadening of knowledge in the fields of appropriate fields of environmental services and the technology of construction as well as the organisation, management and economics of work processes.

Interior Design Principles and Environmental Relations (MA): Principles in Interior Design responsive to the fulfillment of human needs and aspirations, structured

environments, material. Students are encouraged to think critically about the philosophy, praxiology, technology, process and substance of the profession.

Space-Color-Material (MA): Communication of spatial experience in relation to color and material and the recognition of the physical and psychological values of the related elements.

Architecture-Social Space in Relation to Design (MA): Understanding of socio-psychological aspects of man-environment relations. The objective of this course is to provide the students with the necessary skills and knowledge to analyse the theoretical, methodological and evaluative approaches of architecture and their relation to interior design.

Building Construction I-II (MA): The understanding of building elements and their sub-assemblies and the relation of function, properties, economic and availability of building materials and its implication to interior design.

Furniture Design and Principles I-II (MA, Ph.D.): Furniture Design is interpreted in the broadest sense with a range of emphasis from traditional crafts associated with production of tangible items for the many places of human habitation, work and leisure, to industrial production techniques and problems.

History of Interior and Architectural Design I-II (MA, Ph.D.): The course of study in History of Interior Design is to supplement the student with the historical context. In the process of studying past traditions and styles, and their relationship to the social, political and technical environment, the visual awareness and the critical and conceptual abilities of the students are developed.

Restoration (MA): The course objective is to give the student the understanding and knowledge about the restoration and preservation of the historical buildings, their interiors and furnishing and artefacts. The problems of conservation, the techniques and methods of documentation are discussed.

Theory of Restoration and Conservation (MA): Introduction to characteristics of the historical buildings and their interiors and furnishing. The principles of the restoration and conservation techniques and theories.

Space and Light (Ph.D.): Understanding of vision as psychological phenomenon, understanding of light as a physical phenomenon and the ability to develop illumination schemes which enhance the underlying interior design concept. Space and light relation is based on awareness as a visual art.

Analysis of Interior and Exterior Space I-II (Ph.D.): The object of this course is the basic understanding conceptual bases of space, the interrelation of interior and exterior and it's interrelationship to esthetics and creative imagination. The students are taught how to understand the modern and contemporary theories of architecture and design, through a process of formal spatial analysis.

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PAINTING

Head of Program: Prof. Dr. Nevzat YÜZBAŞIOĞLU

The aim of the graduate and post-graduate program in the Painting Department is to encourage the students to extend their talents, ideas and creativities. The students are expected to develop their skills, confidence and sufficiency for their future as leading artists. The course program is based on the theory and practise of painting.

MASTER'S PROGRAM IN PAINTING

First Semester	Second Semester
The Art of Painting I	The Art of Painting II
Theory of Art I	Theory of Art II
History of Thought I	History of Thought II

Taking all these aspects of first year into account, students prepare their final project, an exhibition with comprehensive theoretical document in the following two semesters.

Ph.D. PROGRAM IN PAINTING

First Semester	Second Semester
The Art of Painting I	The Art of Painting II
Painting in Architecture I	Painting in Architecture II
History of Thought I	History of Thought II
Philosophy of Art I	Philosophy of Art II
Sociology of Art I	Sociology of Art II

After having accomplished the tutorial courses each student is expected to prepare an exhibition as a final project, which should be supported by comprehensive theoretical document in the following four semesters.

COURSE DESCRIPTIONS

The Art of Painting I-II (MA, Ph.D.): The main principle in the art of painting is to provide assistance for the student to style contemporary projects and to create unique works in line with his creative personality. The necessary information as to the painting rules is conveyed.

Painting in Architecture I-II (Ph.D.): With the due consideration of architectural and space relation, experimental works and projects are undertaken with the inten-

tion that the students practise to use and fiction every object and material as a painting element.

Sociology of Art I-II (Ph.D.) The Art Sociology concerning the master as well as doctorate level program is developed in close connection with the History of Ideas. The social background of artistic works in their formal and substantial configuration and the reception of the artistic productions constitute the main topics elaborated. The liberty, originality and responsibility of the artists living and creating in visible and invisible frameworks of industrialized societies play an important part in the program.

Philosophy of Art I-II (Ph.D.) Various theories and schools of thought about the essence of art and artistic creation starting from antiquity down to present day are examined; mimesis, ontological theories, a.o.

PHOTOGRAPHY

Head of Program: Prof. Dr. Güler ERTAN

The Department of Photography is offering courses in the graduate level and studies providing the opportunity to students to extend their talents, ideas and fields of expertise as photographers. They are expected to bring into existence new perception and knowledge through the possibilities and limitations of various work of arts to create new techniques and subjects. They are encouraged to develop and evolve their individual photographic aspiration. These courses offer essential opportunities and experimentations for the preparation of photography using the broadest possible range of techniques and concepts. In addition to developing the mastery in one or more photographical media the course program is supported by lectures and research on art and cultural history of photography.

MASTER'S PROGRAM IN PHOTOGRAPHY

First Semester	Second Semester
History of Photography I	History of Photography II
Techniques of Photography I	Techniques of Photography II
Theory of Photography I	Theory of Photography II
Documentary of Photography I	Documentary of Photography II
Experimental of Photography I	Experimental of Photography II
Still Life I	Still Life II
Electives	**Electives**
History of Thought I	History of Thought II
Photogram I	Photogram II
Theory of Art I	Theory of Art II

In the second year the students are expected to develop their individual photographical vocabulary working in a chosen workshop, under guidance

of an individual tutor. The dissertation project is supported by a research thesis.

COURSE DESCRIPTIONS

History of Photography I-II (MA) The student is proved with the knowledge on the history of photography, its chronicle development, origin and place in the concept of art.

Techniques of Photography I-II (MA): This course includes; optic, chemistry, black-white darkroom techniques, color darkroom, knowledge of advanced photography -Sensitometry, zone system.

Theory and Philosophy of Photography I-II (MA): Art philosophy is transformed into a work of art through photographic applications.

Documentary of Photography I-II (MA): This course gives the knowledge on the documentary of photography which nature, history, culture, social life and photo journalizm.

Experimental of Photography I-II (MA) The aim of the course is to teach photography on a more advanced level to express lingual concepts visually by mears of photography.

Still Life I-II (MA) This course gives the knowledge on studio designing and equipment, artifical lights in studio and advertising photography.

History of Thought I-II (MA): The course of MA degree students in a series of lectures studying some representative intellectual currents.

Photogram I-II (MA) The student is acquainted with photographic materials, taught photographing techniques using opaque, semi opaque and transparent materials without a camera. They also learn to apply simple principles of composition.

Theory of Art I-II (MA) This course is to provide the recognition of values and criterias in art analyzing aspects like aesthetic (beauty) and goodness, righteousness, usefulness. Theory of reflection in art, Plato, Aristocles a.o. Contemporary interpretations about the concept of beauty; in nature and in art. Properties and definitions of aesthetic values.

SCULPTURE

ÜNİVERSİTESİ YAYINEVİ

Head of Program: Prof. Dr. Mümtaz IŞINGÖR

The Department of Sculpture is offering courses in the level of graduate and post-graduate studies providing the opportunity to students to extend their talents, ideas and fields of expertise as sculptors. They are expected to bring into existence new perception and knowledge through the possibilities and limitations of various materials to create new form and objects. They are encouraged to develop and evolve their individual sculptural aspiration. These courses offer essential opportunities and experimentations for the preparation of sculpture using the broadest possible range of techniques and concepts. In addition to developing the mastery in one or more sculptural media the course program is supported by lectures and research on art and cultural history of sculpture.

MASTER'S PROGRAM IN SCULPTURE

First Semester	Second Semester
Sculpture I	Sculpture II
History of Sculpture I	History of Sculpture II
Theory of Art I	Theory of Art II
Design Theory I	Design Theory II
History of Thought I	History of Thought II
Electives	**Electives**
Workshop Practise I	Workshop Practise II
Research Methodology	
Contemporary Materials and Forms I	Contemporary Materials and Forms II

In the second year the students are expected to develop their individual sculptural vocabulary working in a chosen workshop, under guidance of an individual tutor. The dissertation project is supported by a research thesis.

Ph.D. PROGRAM IN SCULPTURE

First Semester	Second Semester
Sculpture I	Sculpture II
Philosophy of Art I	Philosophy of Art II
Sociology of Art I	Sociology of Art II
History of Thought I	History of Thought II
Electives	**Electives**
Workshop Practise I	Workshop Practise II
Contemporary Materials and Forms I	Contemporary Materials and Forms II

The individual internal supervisor, chosen according to the students individual work practice in mind will define a work program. The students have to develop their technical contribution to sculpture, both imaginatively and technically outcoming project, supported by a written dissertation, culminates in the Final Examination Degree Show.

COURSE DESCRIPTIONS

Sculpture I-II (MA, Ph.D.): This course is based on the experience in the subject of sculpture and its basic techniques, forming new compositions and interpretations of balance, rhythm, light, surface and structure.

History of Sculpture I-II (MA, Ph.D.): This course aims to teach history of sculpture and the criterias in sculpturing throughout the ages enebling the students to look objectively at sculpture formally and analytically.

Research Methodology (MA): The methods, approaches and techniques of social research, the universal method of social sciences: observation, hypothesis, testing and generalizations. Research design and individual steps of social research in planning sampling data collection and processing evaluation, research report.

Theory of Art I-II (MA): This course is designed to provide the recognition of values and criterias in art, analyzing aspects like aesthetic (beauty) and goodness, righteousness, usefulness. Theory of reflection in art, Plato, Aristoteles a.o. Contemporary interpretations about the concept of beauty, in nature and in art. Properties and definitions of aesthetic values.

Design Theory I-II (MA): Design Theory course introduces a theoretical and critical approach to design problems. The main framework covers sources of design, general aspects of design and their functions, design process and semantic structure and visual communication, design process and creative methods. This course is prerequisite for Industrial Design Department students and elective for other art and design related departments.

History of Thought I-II (MA, Ph.D.): The History of Thought course for MA degree students consists in a series of lectures studying some representative intellectual currents as well as philosophers, scientists and artists. The method of lectures is mainly based on mutual relationship between ideas and Arts, according to the scholarly needs of students, in order to contribute to their maturity and inventiveness in Art and Design, respectively in Graphic Art, Painting, Sculpture and Industrial Design Department.

Workshop Practice I-II (MA, Ph.D.): The students are obliged to choose one or more of the existing workshops. In wood and wood carving workshop students learn to use wood-working techniques and practise to transform form, ratio, modules and other formations into form of art in creating a wooden sculpture. Also in stone workshop, because stone is still important in the sculpture making, the students have to improve their skills in working with different types of stone and special tools.

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In metal workshop, using metal as a material for forming sculptures, this course covers disciplines like modules in three dimensional practices, structural, lineal and mass effects, establishing visual and physical balance and movement, tactile sensibility.

Contemporary Materials and Forms I-II (MA, Ph.D.) In this course the properties of new materials and their technology are analysed. The materials like glass, fiberglass, acrylics, polyester, stainless steel, pik e.o. are used as contemporary expression of art and sculpture. The students are encouraged to go to other workshops and factories if the existing facilities in the department are inefficient for more advanced technology.

TEXTILE

Head of Program: Prof. Dr. Reyhan KAYA

The need for designers has increased in recent years because of the constantly developing Textile Industry in domestic and export markets. A search for specialists and well-qualified personnel in every branch of Textile has already begun. For this reason, graduate and postgraduate degree courses in three branches as weaving, printing and fashion design have been carried on parallel to undergraduate programs in the same branches. The education aims to train students as specialists with high creative skill by the support of theoretical courses as well as design projects.

MASTER'S PROGRAM IN TEXTILE

First Semester	Second Semester
Textile Design (Weaving, Printing, Fashion) I	Textile Design (Weaving, Printing, Fashion) II
Design Theory I	Design Theory II
Theory of Art I	Theory of Art II
Research Methodology	
Electives	**Electives**
Textile Production Techniques I	Textile Production Techniques II
The Analysis Techniques in Woven Textiles	The History of Textile Art
Ecological Textile I	Ecological Textile II
Color in Textile I	Color in Textile II
Woven Textile Types and Production Tech. I	Woven Textile Types and Production Tech. II
Traditional Weaving in Anatolia I	Traditional Weaving in Anatolia II
Art Objects in Textiles I	Art Objects in Textiles II
The Principles of Textile Design	Introduction to Computers
Fabric Innovations I	Fabric Innovations II

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Second year is dedicated to the Final Design Project, research report and thesis. After the presentation of the project and thesis degree examination will take place.

Ph.D. PROGRAM IN TEXTILE

First Semester	Second Semester
Weaving Design I	Weaving Design II
Printing Design I	Printing Design II
Fashion Design I	Fashion Design II
History of Thought I	History of Thought II
Electives	**Electives**
Design Critics I	Design Critics II
Photography in Textile I	Photography in Textile II
The Importance of Natural Dyes in Textile I	The Importance of Natural Dyes in Textile II
Design in Ikat Technique	Esthetique of Hand Printing (Yazma)
Construction of Textile Objects I	Construction of Textile Objects II
Artistic Values in T.Printing and Dying Tech. I	Artistic Values in T.Printing and Dying Tech. II
Presentation Techniques I	Presentation Techniques II

After having accomphisled the tutorial courses each student is expected to propose a subject to his or her personal supervisor, who is a full time lecturer in the Department of Textile, and carry out a project and a written dissertation in the following four semesters.

COURSE DESCRIPTIONS

Textile Design (Weaving, Printing, Fashion) I-II (MA): Design courses are theoretical and applied, and present workshop facilities to the students. These courses can be chosen depending on the subdepartment in which the student wants to do his MA. They can also be joined with the other master courses if needed.

The Analysis Techniques in Woven Textiles I-II (MA): Both the design analysis and the fabric analysis are taught in this course. The student can learn how to analyse a fabric to find out its structure and to solve the problems of the design to be woven.

Textile Production Techniques I-II (MA): This course aims at giving technical information about the textile geometry which implicates the sections, twists, movements and tightness of the yarns of the woven and knitted fabrics.

The History of Textile Art (MA): General information about the looms and fabric samples of different cultures is given in this course as well as detailed knowledge about the Ottoman and Turkish fabrics.

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Ecological Textile I-II (MA): This is a course to point out the techniques of textile production which pollutes the environment and to make the students realise the importance of production which will not harm nature.

Color in Textiles I-II (MA): This course consists of the theoretical information and practical applications which aim to find out the problems arising from design-color-material relations as well as to solve them.

Art Objects in Textiles I-II (MA): The aim of this course is to enable the student to design unfunctional textile objects. The way of thinking is to start up with the properties of any textile material to build an art object, unlike a sculptor who starts up with the form and finds out the suitable material for it.

Woven Textile Types and Their Production Techniques I-II (MA): The aim of the course is to increase the experience of the student in recognising various fabric structures and in making them understand the importance of the structural differences among various fabrics which have the same design and color.

The Traditional Weaving in Today's Anatolia I-II (MA): This course aims at presenting the regional woven fabric types which exist in Anatolia today, to the contemporary textile artist. For this purpose, basic knowledge both concerning the technical and aesthetic properties of traditional works and enabling the student to find out and acknowledge the regional samples is given to the student.

The Principles of Textile Design I-II (MA): This course aims at scrutinizing the principles of surface design and determining the artistic structure of design in the light of these principles.

Fabric Innovations I-II (MA): It aims to apply various processes on textiles or to use them together with different materials to produce mixed media.

Design Critics I-II (Ph.D.): This course aims to make critics on the design products in terms of aesthetics, technical properties, functional properties, social and cultural aspects. Besides, it helps to make scientific and art evaluations of these products from various angles such as the use of materials, human health factor and ecology.

Photography in Textile I-II (Ph.D.): This course aims to present the application of various photography techniques in textile design. The students make the applications of theoretical knowledge that they learned in photography studio.

The Importance of Natural Dyes in Textiles I-II (Ph.D.): The necessary techniques such as obtaining various Color Combinations by using solution of extracts and their industrial use as well as traditional natural dying techniques which had been used in Anatolia for centuries are taught. Also the importance of industrial use of natural dyes is emphassed as this is an important factor for an environmental friendly world.

Design in Ikat Technique (Ph.D.): "IKAT" Technique plays on important role in traditional designing techniques. It is aimed to prepare various combinations of patterns by using different possibilities of "ikat" technique.

Weaving-Printing-Clothing Design I-II (Ph.D.): The original design works of students are supervised first concerning about aesthetic values then supporting them with theoretical knowledge.

Construction of Textile Objects I-II (Ph.D.): It aims to prepare project work concerning estimating constructional properties (material production) methods, presentation and packaging in order to produce artistic textile objects apart from industrial textiles.

Artistic Values in Textile Printing and Dying Techniques I-II (Ph.D.): It aims to produce unique artistic works by researching new techniques and materials for textile dying and printing.

Presentation Techniques I-II (Ph.D.): It aims to teach Fashion Design students various skills which help them in presenting their works professionally in many ways such as posters, cataloques, invitations and similar.

TRADITIONAL TURKISH ARTS AND CRAFTS

Head of Program: Assoc. Dr. Feryal İREZ

The Department of Turkish Traditional Arts and Crafts offers two seperate MA programs, one in Miniature Painting and the other one in Traditional Turkish Textile Arts. The Department also offers courses to students from other disciplines textile conservation, book restoration and renovation in traditional Turkish Architecture. The program gives the students the opportunity to recognize and combine traditional values with theoretical synthesis so that the student can develop their skills to produce contemporary art work as a continuity of the traditional arts.

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COURSE OF MINIATURE PAINTING AND ILLUMINATION

Course Leader: Assist. Prof. Dr. Çiçek DERMAN

MASTER'S PROGRAM IN MINIATURE PAINTING AND ILLUMINATION

First Semester	Second Semester
Description of Illuminations I	Description of Illuminations II
History of Tradit. Turkish Arts and Crafts I	History of Tradit. Turkish Arts and Crafts II
Miniature Painting I	Miniature Painting II
Ottoman Manuscripts I	Ottoman Manuscripts II
Conservation and Restoration of Books I	Conservation and Restoration of Books II
Renovation in Turkish Architecture I	Renovation in Turkish Architecture II
Theory of Art I	Theory of Art I
The Philosophic Actions in the Trad. Turkish I	The Philosophic Actions in the Trad. Turkish II

Second year is dedicated to the Final Design Project, research report and thesis. After the presentation of the project and thesis degree examination will take place.

Ph.D. PROGRAM IN MINIATURE PAINTING AND ILLUMINATION

First Semester	Second Semester
Description of Illuminations I	Description of Illuminations II
Miniature Painting I	Miniature Painting II
Ottoman Manuscripts I	Ottoman Manuscripts II
Conservation and Restoration of Books I	Conservation and Restoration of Books II

After having accomplished the taught courses each student is expected to propose a subject to his of her personal supervisor, who is a full time lecturer in the Department of Traditional Turkish Arts and Crafts, and carry out a project and a written dissertation in the following four semesters.

COURSE DESCRIPTIONS

Description of Illuminations I-II (MA, Ph.D.): What is Illumination? How is Illumination applied? The preperation of the materials, varieties of Illumination. The historical development of the Illumination and the Turkish Illumination of today. This course is a practical course. The techniques are shown and some new applications are accomplished with the students.

History of the Traditional Turkish Arts and Crafts I-II (MA): The historical development of Islamic Calligraphy. Miniature Paintings, Book-bindings and marbled-papers. Examples of calligraphies, examples from miniature paintings, examples of

hand-written books, bindings, Ottoman tughra and marbled-papers and the course will give an information about the famous masters.

Miniature Paintings I-II (MA, Ph.D.): This course will give the students the opportunity of varieties of analysis and synthesis of distinguished miniature paintings.

Ottoman Manuscripts I-II (MA, Ph.D.): The aim of this course is to teach the students how to describe ancient Ottoman Manuscripts.

Conservation and Restoration of Books I-II (MA, Ph.D.): This course is a practical course. The aim of this course is to teach the conservation and restoration of manuscripts and ancient books.

Renovation in Turkish Architecture I-II (MA): In this course the importance of structure and construction as well as aesthetic priorities in shaping of the monumental buildings, analysis of the building as structure during the renovation process, in addition to monumental buildings problems involved in building and renovating wooden constructed public buildings and houses are all considered. In addition, in accordance with the general training level of the student, examples of wooden and and ornament on plaster type of renovation techniques are shown and from time to time applications are accomplished with some students.

COURSE OF TRADITIONAL TURKISH TEXTILE ARTS and CRAFTS

Course Leader: Assist. Prof. Dr. Sibel ARIK

MASTER'S PROGRAM IN TURKISH TEXTILE ARTS and CRAFTS

First Semester	Second Semester
History of Style I	History of Style II
Europe and the Ottoman I	Europe and the Ottoman II
Design and Style of the Turkish Cloths I	Design and Style of the Turkish Cloths II
Constructive Designs of Turkish Carpets I	Constructive Designs of Turkish Carpets II
The Care and Preservation of Textiles I	The Care and Preservation of Textiles II
The Art of the Anatolian Carpets I	The Art of the Anatolian Carpets II
The Relations of Design and Function I	The Relations of Design and Function II
Theory of Art I	Theory of Art II

Second year is dedicated to the Final Design Project, research report and thesis. After the presentation of the project and thesis, degree examination will take place.

Ph.D. PROGRAM IN TRADITIONAL TURKISH TEXTILE ARTS and CRAFTS

First Semester	Second Semester
History of Style I	History of Style II
Europe and the Ottoman I	Europe and the Ottoman II
Design and Style of the Turkish Cloths I	Design and Style of the Turkish Cloths II
Constructive Designs of Turkish Carpets I	Constructive Designs of Turkish Carpets II
The Care and Preservation of Textiles I	The Care and Preservation of Textiles II
The Art of the Anatolian Carpets I	The Art of the Anatolian Carpets II
The Relations of Design and Function I	The Relations of Design and Function II
Textile Design I	Textile Design II

After having accomplished the taught courses each student is expected to propose a subject to his or her personal supervisor, who is full time lecturer in the Department of Traditional Turkish Arts and Crafts, and carry out a project and a written dissertation.

COURSE DESCRIPTIONS

History of Style I-II (MA, Ph.D.): The relations between theories of art and historical writings. History of Style is generally explained within the subject of history of Art. Therefore, the style is presented like the language of Art.

Europe and Ottoman I-II (MA, Ph.D.): Expansions to Europe had brought the Ottoman into contact with the West as early as the XIV. Century. Political and economic relations continued between the Ottoman Empire and the European communities throughout the centuries while cultural contacts led to influences in art. Art historically, the Ottoman orientation with the West goes back to the XV. Century, when the Sultans themselves showed interest in the art of Europe. This course will give the students the opportunity of the relationship between European and Turkish Art throughout the centuries.

Design and Style of the Turkish Cloths I-II (MA, Ph.D.): This course will give the opportunity to the students to study the historical development of the Turkish cloths. Description and comparison of the Turkish cloths.

History of World and Turkish Costumes I-II (MA, Ph.D.): The historical development of the world costumes and description of the Turkish costumes throughout the centuries.

Constructive Design of Turkish Carpets I-II (MA, Ph.D.): Description and comparison of models of distinguished types of carpets, rugs and kilims according to their centuries from the important center of production in Asia-Minor, Near-East, Middle-East, and in the Middle-Asia. Description and comparison of the models of XV. and

XVI. Century Ottoman Brocades in the Topkapi Palace and other museums with the contemporary samples of neighbor cultures.

The Care and Preservation of Textiles I-II (MA, Ph.D.): This course will give the students the opportunity of geting exposure to the nitty-gritty of textile conservation. This course provides an approach to the limits of textile conservation.

The Art of the Anatolian Carpets I-II (MA, Ph.D.): The historical development of Anatolian carpets. The analysis of Turkish carpets according to their types and region.

The Relations of Design and Function I-II (MA, Ph.D.): The historical development of design before and after the revolution of Arts and Crafts. The aim of this course is to give the students some theoretical methods about design and their function in the industrial area.

Textile Design II (Ph.D.): A survey of main problems in Textile Design and developing an advanced problem solving skill and professional practise within the program of self initiated and professionally linked projects.

Theory of Art I-II (MA): This course is to provide the recognition of values and criterias in art; analysing aspects like aesthetic (beauty) and goodness, righteousness, usefulness. Theory of reflection in art, Plato, Aristoteles a.o. Contemporary interpretations about the concept of beauty; in nature and in art. Properties and definitions of aesthetic values.

The Philosophical Actions (Effects) in the Traditional Turkish Arts and Crafts I-II (MA): This course will bring to light the philosophical background and actions in the Traditional Turkish Arts and Crafts. The aim of this course is to give the students, the relationship between Philosophy and Traditional Turkish Arts (like rugs, kilims, tiles etc.) throughout the centuries.

MARMARA ÜNİVERSİTESİ YAYINEVİ

5. INSTITUTE OF GASTROENTEROLOGY

Director : Prof. Nurdan TÖZÜN, M.D.
Assistant Director : Assoc. Prof. Cem KALAYCI, M.D.

Language of Instruction: Turkish and English

Departments of the Institute are Basic Gastroenterology, Clinical Gastroenterology and Gastrointestinal Surgery.

The Institute of Gastroenterology was founded in 1992 and emerged from the idea of developing and encouraging research projects in the rapidly developing field of Gastroenterology. The major aim of the Institute is to offer students, fellows or academicians involved in gastroenterology a highly developed media for research and clinical application. The major aim of the postgraduate programs of the Instutitute is to orient the students in the most outstanding subjects of gastroenterology such as molecular biology, motility, genetics, immunology, oncology and transplantation; all those are aproached in a creative and friendly atmosphere and in close collaboration with the clinical sciences. The main areas of research at the moment are focused on molecular biology of hepatitis viruses, nutrition in gastrointestinal and liver diseases, GI motility and portal hypertension. Two master programs under preparation are concerned with Viral Hepatitis (epidemiology and molecular biology) and Gastrointestinal physiology. Apart from its postgraduate and PhD programs in basic sciences the Institute also has a major interest in recent developments in applied GI techniques, with a staff consisting of enthusiastic experts in GI Endoscopy. Initial studies on liver transplants are also being organized

The teaching program includes a master's program in Viral Hepatitis.

MARMARA ÜNİVERSİTESİ

GRADUATE PROGRAM IN VIRAL HEPATITIS

Head of Program: Prof. Dr. Nurdan TÖZÜN

Language of Instruction: Turkish

The program of Viral Hepatitis emerged from the idea of giving special education and advanced courses to medical doctors or biologists on the subject of viral hepatitis, which is one of the major health problems in our country and in the world.

The aim of the postgraduate program is to involve highly qualified and expert scientists in epidemiology, molecular biology, microbiology, serology and diagnostic research on hepatitis. All of this will be extrapolated into clinical medicine. The program is open to medical doctors, biologists, microbiologists and molecular biologists.

The MS program lasts 2 years, the first being dedicated to course work and the second to thesis. MS students along with fellows and assistants, participate in all research activities of the department during the training period.

Each student has to attend at least 8 theoretical and 10 practical courses within a year. Epidemiology, molecular biology and clinical approach topics are dealt within 2 semesters whilst courses on microbiology and treatment are given in one semester. At the end of each semester final examinations take place. The following year the students are required to prepare their theses under the guidance of the supervisor professors. During this period the students also attend and prepare departmental seminars and lectures and take part in the research activities.

MASTER'S PROGRAM IN VIRAL HEPATITIS

First Semester	Second Semester
Clinical Approach to Viral Hepatitis I	Clinical Approach to Viral Hepatitis II
Epidemiology of Viral Hepatitis I	Epidemiology of Viral Hepatitis II
Microbiology of Viral Hepatitis I	Microbiology of Viral Hepatitis II
Molecular Biology of Viral Hepatitis I	Molecular Biology of Viral Hepatitis II
Treatment of Viral Hepatitis I	Treatment of Viral Hepatitis II

COURSE DESCRIPTIONS

Clinical Approach to Viral Hepatitis I and II: Introduction and classification of hepatitis viruses.

MARMARA ÜNİVERSİTESİ YAYINEVİ

Epidemiology of Viral Hepatitis I and II: Prevalence of hepatitis infection in Turkey and other countries; vertical and horizontal transmission, prevention and prophylaxis.

Microbiology of Viral Hepatitis I and II: Serologic diagnosis of hepatitis viruses, ELISA and RIA techniques, First and second generation tests, RIBA and molecular biologic methods in the diagnosis of HCV infection.

Molecular Biology of Viral Hepatitis I and II: Detection of HVB DNA by dot blot hybridisation, application of pCR in HCV RNA sequencing, genomic variations of hepatitis viruses.

Treatment of Viral Hepatitis I and II: Various treatment modalities in viral hepatitis (antivirals, interferon, nucleoside analogues) hepatic transplantation.

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6. INSTITUTE OF HEALTH SCIENCES

Director : Prof. Dr. Beyazıt ÇIRAKOĞLU
Assistant Directors : Prof. Dr. Sevim ROLLAS
Assoc. Prof. Şefik GÖRKEY

Language of Instruction: Turkish and English

The Institute of Health Sciences was established in 1982 with the aim of organizing, coordinating and supervising post-graduate studies and also conducting related scientific research.

Post-graduate studies and related scientific research are carried out in Turkish at the corresponding departments of Medicine, Dentistry, Pharmacy and the Atatürk Faculty of Education of Marmara University. At the departments of Orthodontics and Prosthodontics parallel English studies are also available.

Two types of postgraduate degree courses are offered by the Institute of Health Sciences:

- 1 – MASTER OF SCIENCE DEGREE (MS): At the end of a 4-term course, successful students are awarded with a Master's Diploma. The course follows on from undergraduate courses and comprises 2 terms of lectures, seminars and 2 terms of thesis work. The course can be extended one term, if necessary.

2 – DOCTOR OF PHILOSOPHY DEGREE (Ph.D): This course follows on from a Master's Degree course. The course is 10 terms long; during the first 4 terms 24 credits are taken and seminars are given and the last 6 terms are devoted to thesis work. Successful candidates are awarded with a Ph.D degree. The Ph.D course may be extended 3 terms if necessary.

MARMARA ÜNİVERSİTESİ YAYINEVİ

DENTISTRY

CONSERVATIVE DENTISTRY, ENDODONTICS AND ORAL DIAGNOSIS

Head of Program: Prof. Dr. Bülent BAŞARAN

The Department of Conservative Dentistry, Endodontics and Oral Diagnosis offers a postgraduate Ph.D. program.

In order to achieve this objective the post graduate curriculum leading to the Ph.D. degree is designed to provide basic knowledge in these fields and clinical experience in complicated cases, conservative and endodontic treatment.

Language of Instruction: Turkish

Ph.D. PROGRAM IN CONSERVATIVE DENTISTRY, ENDODONTICS AND ORAL DIAGNOSIS

First Semester	Second Semester
Conservative Treatment I	Conservative Treatment II
Endodontic Treatment I	Endodontic Treatment II
Pulp and Periapical Pathology I	Pulp and Periapical Pathology II
Infections of Oral Mucosa I	Infections of Oral Mucosa II

COURSE DESCRIPTIONS

Conservative Treatment I-II: Enamel tissue, initial caries lesion, classification of caries, fluoride, preventive treatments, preparations for conservative applications, filling materials, filling techniques.

Endodontic Treatment I-II: Instruments used in endodontics, access opening and tooth morphology, cleaning, shaping and obturation of the root canal system.

Pulp and Periapical Pathology I-II: Diagnosis and treatment of pulp infection and periapical lesions.

Infections of Oral Mucosa I-II: Infections of oral mucosa caused by bacteria, viruses and fungus as well as other specific infections.

MARMARA ÜNİVERSİTESİ YAYINEVİ

ORAL SURGERY

Head of Program: Prof. Dr. Övün GÜVENER

The curriculum of the Ph.D. program is designed so as to provide the students with knowledge of tooth extraction and surgical procedures in the oral cavity.

Language of Instruction: Turkish

Ph.D PROGRAM IN ORAL SURGERY

First Semester	Second Semester
Oral Surgery I	Oral Surgery II
Dental Anesthesia	
Implant Surgery	

COURSE DESCRIPTIONS

Oral surgery I - II: Patient examination and diagnosis, treatment of cysts, diagnosis and treatment, nerve diseases in oral cavity, maxillary sinus infections and its dental implications, tumors and its surgical treatment, maxillofacial traumatology, preprosthetic surgery, simple ortognathic surgery, infection diseases, etc.

Dental Anesthesia: Anesthetic substances, types of anesthesia, complications and applications.

Implant Surgery: Usage and comparison of various dental implant techniques. (Basic surgical principles and differences.)

ORTHODONTICS

Head of Program: Prof. Dr. Nejat ERVERDİ

The department offers a two year Master's program and a three-year Ph.D. program. For both programs, students are required to have graduated from a foreign or Turkish dental faculty and to pass the exam of the Institute of Health Sciences.

Language of Instruction: English

THE MASTER'S PROGRAM CONTAINS THE FOLLOWING TOPICS

Cephalometric Diagnosis and treatment planning I-II
Functional Jaw Orthopeadics I-II
Extraoral Appliances
Edgewise Technique I-II
Begg Technique I-II
Orthodontic Treatment of the Orthognathic patients

Ph.D. PROGRAM IN ORTHODONTICS

Growth and Development I-II
Anatomy of the Head and Neck
Physiology of the Head and Neck
Light Microscopy Techniques
Electron Microscopy Techniques
Cephalometric Diagnosis and treatment planning I-II
Typodont Training
Functional Jaw Orthopeadics I-II
Extraoral Appliances
Edgewise Technique I-II
Begg Technique I-II
Straight Wire Techniques
Burstone Techniques
Orthodontic Treatment of the Orthognathic patients

MARMARA ÜNİVERSİTESİ YAYINEVİ

PEDODONTICS

Head of Program: Prof. Dr. İlknur TANBOĞA

The practice of pedodontics is governed by the philosophy that it is necessary to consider the child's feelings, to gain the child's confidence and cooperation, to perform treatment in a kind, sympathetic manner, and to be concerned not only with providing the treatment currently required but also with promoting the child's future dental health by stimulating positive attidudes and behavior regarding dental care. All postgraduate students are aimed to be taught according to this philosophy and should be competent in the diagnosis, preparation and restoration of both primary and permanent teeth. The initial objective of this course is to demonstrate the tell-show-do and other management techniques to clinical pedodontic procedures. The purposes of postgraduate pedodontic dental education are twofold: to prepare dentists for specific functions calling for knowledge and skills beyond those acquired during the undergraduate period, and to keep the knowledge and skills of active professional pedodontists.

Language of Instuction: Turkish

Ph.D. PROGRAM IN PEDODONTICS

First Year	Second Year
Technique Courses	Growth and Development
Advances in Pedodontics	Special-care (Children)
Prevention of the Oral Diseases	Sedation and General Anesthesia

COURSE DESCRIPTIONS

Technique Courses: This requires full-time clinical attendance in pedodontics and it includes all kind of involvement in this field from the simple procedure of the prophylaxis and fluoride application to the complicated forms of the pulpotomy and pulpectomy techniques of the primary and young permanent teeth.

Advances in Pedodontics: Current changes in the field of pedodontics and new technology and materials are introduced to the post-graduate students and practical implications of this information are applied.

Prevention of Oral Diseases: Dental caries process, its prevention and treatment are fully covered. Training is given in reviewing the literature and adopting this to practice.

Growth and Development: These courses are on norms and normal values in the growth and the development pattern of the human being and developmental changes of the body, head and neck and dental tissues.

Special-care (Children): Students are introduced to treatment of children who need special psychological and dental care such as mentally or physically handicapped children.

Sedation and General Anesthesia: Techniques for pediatric patients are introduced to the post-graduate students.

MARMARA ÜNİVERSİTESİ YAYINEVİ

PERIODONTOLOGY

Head of Program: Prof. Dr. Selçuk YILMAZ

Periodontology deals with the normal function and pathogenesis of the periodontium and the treatment and prevention of periodontal and perimplant disease. Education is in the form of lectures, tutorials, seminars and clinical practice. This post-graduate program is designed for those interested in pursuing a career in periodontology. Each student carries out a supervised research project. The succesful presentation of dissertation and an oral examination is required. The student will be expected to demonstrate a broad knowledge of science basic to periodontology, clinical periodontics, medicine and surgery.

Language of Instruction: Turkish

Ph.D. PROGRAM IN PERIODONTOLOGY

First Semester	Second Semester
Periodontology I	Periodontology II

COURSE DESCRIPTION

Periodontology I-II

- Classification of Periodontal Disease
- Rationale for Periodontal Treatment
- Regenerative Periodontal Treatment (attachment - new attachment procedures, bone grafts, guided tissue regeneration techniques)
- Reconstructive Periodontal Treatment (periodontal trauma, restorative, and prosthetic measures)
- Microbiology of Periodontal Diseases
- Antimicrobial Treatment
- Perimplant problems
- Maintenance and supportive therapy in periodontal and perimplant diseases

MARMARA ÜNİVERSİTESİ YAYINEVİ

PROSTHODONTICS

Head of Program: Prof. Dr. Hasan N. ALKUMRU

The Department of Prosthetic Dentistry has a 4-semester prosigraduate program. During this program students take the lectures which have been suggested by the students supervisor. These lectures will be related to students' project which will become their thesis. Every lecture has theoretical and practical sessions.

Department of Prosthodontics hopes that the course will educate postgraduates capable of advancing knowledge within prosthodontics and able to initiate and respond to the development throughout their lives.

Language of Instruction: English

MASTER'S PROGRAM IN PROSTHODONTICS

First Year

First Semester	Second Semester
Complete Dentures I	Complete Dentures II
Partial Dentures I	Partial Dentures II
Fixed Prosthesis I	Fixed Prosthesis II
Gnathology I	Gnathology II

Second Year

First Semester	Second Semester
Implantology I	Implantology II

Ph.D. PROGRAM IN PROSTHODONTICS

First Semester	Second Semester
Gerodontology I	Gerodontology II
Advanced Prosthodontics I	Advanced Prosthodontics II
Dental Materials I	Dental Materials II
Advanced Implantology I	Advanced Implantology II

COURSE DESCRIPTIONS

Fixed Prosthesis: Fixed prosthesis is a science that teaches the students to restore the severely damaged or missing tooth by metal and aesthetic materials.

Gnathology: Gnathology is a science that teaches the students physiology and pathology of the temporomandibular joint, related muscles and occlusions.

Implantology: Implantology is a science that teaches the students to use a direct bone anchored appliance which provide a foundation to support a fixed or removable prosthesis.

Gerodontology: Gerodontology is a science that teaches the students to deal with elderly patients.

Partial Dentures: Partial dentures is a science that teaches the students to design and treatment principal of partially and edentate patients.

Complete Dentures: Complete dentures is a science that teaches the students how to deal with the edentate patients.

Dental Materials: Dental materials is a science that teaches the students to understand composition and management of dental material.

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MEDICAL

ANATOMY

Head of Program: Assoc. Prof. Dr. Erdal ARISAN

Anatomy is the macroscopic (gross) study of the structures of the body and the relationship of its constituent parts to each other.

Language of Instruction: Turkish

Ph.D PROGRAM IN ANATOMY

First Semester	Second Semester
Advanced Anatomy of Head and Neck	Advanced Anatomy of Head and Neck
Advanced Anatomy of Locomotor System	Advanced Anatomy of Locomotor System
Advanced Anatomy of Cardiovascular and Urogenital Systems	Advanced Anatomy of Cardiovascular and Urogenital Systems
Advanced Anatomy of Gastrointestinal System	Advanced Anatomy of Gastrointestinal System
Advanced Neuroanatomy	Advanced Neuroanatomy

COURSE DESCRIPTIONS

Advanced Anatomy of Locomotor System : The functional and clinical aspects of the muscles and the joints of the body are considered.

Advanced Anatomy of Head and Neck: The bony features of the skull, the muscles of mastication and mimics, the temporomandibular joint, the triangles of the neck, cranial nerves, brainstem, the gross anatomy of the brain are included in this course.

Advanced Anatomy of Gastrointestinal System: The functional and clinical aspects of the gastrointestinal system are considered.

Advanced Anatomy of Cardiovascular System: The cardiovascular and urogenital organs and their clinical aspects are the subject of the course.

Advanced Anatomy of The Nervous System: The clinical aspects and functional anatomy of the nervous system are considered.

MARMARA ÜNİVERSİTESİ YAYINEVİ

AUDIOLOGY

(HEARING, SPEECH AND LANGUAGE DISORDERS)

Head of Program: Prof. Dr. Ferda AKDAŞ

The postgraduate program in Audiology (Hearing, Speech and Language Disorders) prepares students for careers as clinical audiologist, university professors and hearing scientists.

The MS program may be completed in either four - quarters or five quarters depending on the student's graduate preparation. A minimum 36 semester hours in Speech and Hearing Sciences are required. In addition, the student is required to take 3 semester hours clinical practice during each semester and 2 semester hours of practice during the summer. All candidates are accepted as 'full time students.' All students must comply the general requirements of the Marmara University Institute of Health Sciences.

To complete MS degree requirements students must prepare a master's thesis.

Language of Instruction: Turkish

MARMARA ÜNİVERSİTESİ

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MASTER'S PROGRAM IN AUDIOLOGY

First Semester

Hearing and Hearing Measurement
Diagnostic Audiology I
Seminar in Aural Rehabilitation
Experimental Audiology
Voice Disorders
Advanced Audiology
Basic Otolaryngology I
Physics of Sound, Acoustic Phonetics and Auditory Training
Industrial Audiology
Pediatric Audiology
Development of Language and Speech in Deaf
Stuttering
Electrophysiological Measurement Techniques
Neurophysiology of Hearing and Speech Mechanisms
Central Auditory Nervous System Disorders
Vestibular System and Its Disorders I
Aphasia

Second Semester

Anatomy and Physiology of Speech and Hearing Mechanisms
Diagnostic Audiology II
Speech Pathology for Audiologists
Special Studies in Audiology
Instrumentation and Amplification System
Basic Otolaryngology II
Audiology Seminar and Clinical Practice
Cleft Palate Speech
Delayed Speech
Vestibular System and Its Disorders II

COURSE DESCRIPTIONS

Hearing and Hearing Measurement: Introductory psycho-acoustics; introduction to audiometric instrumentation, test construction, reference levels, and calibration techniques; basic pure tone and speech audiometry; interpretation of tests results in terms of medical, developmental, educational, occupational, and (re)habilitative implications. Clinical observation and practice in the Audiology Clinic.

Diagnostic Audiology I-II: Principles and practice of audiologic procedures relative to differential diagnosis of site of lesion and pseudohypacusis.

Seminar in Aural Rehabilitation: Readings, discussion, and case demonstrations in the principles and practices of lipreading and auditory training.

Experimental Audiology: Review of psycho-acoustical literature, individual research projects relative to clinical audiology such as absolute threshold, differential thresholds, loudness, pitch and biraural hearing.

Voice Disorders: Discussion of voice disorders in children and adults, with special attention to the principles and practices in postlaryngectomy speech training.

Advanced Audiology: Principles and practice of bone conduction, speech audiometry, masking and special procedures for testing children.

Basic Otolaryngology I - II: Discussion of ear, nose and throat diseases and their treatment. Instruction given by the members of the Ear-Nose-Throat Department.

Physics of Sound, Acoustic Phonetics, and Auditory Training: Physics of sound; analysis of speech production in terms of its acoustic composition; the International Phonetic Alphabet and Turkish phonemes; relationships of the acoustical properties of speech to hearing loss, amplification and filter systems, and rehabilitation guidelines. Clinical application of speech analysis.

Industrial Audiology: Noise-induced occupational hearing loss, particular relationship between the hearing loss and the occupation, standardization of the hearing loss, determination of the disability, isolation of the noise, specification and usage of ear protectors.

Pediatric Audiology: Principles and application of auditory assessment techniques for the newborn and children, and rehabilitation methods.

Development of Language and Speech in the Deaf: Evaluation of language and speech development of children with profound and total hearing loss. Effective factors for development, assessment methods, guidance for education.

Aphasia: Etiology of the different types of aphasia due to cerebro vascular accidents in children and adults. Diagnosis, prognosis and therapy methods in detail.
Stuttering: Etiology, description, types, prognosis and therapy methods of stuttering in detail in children and adults.

Electrophysiological Measurement Techniques: Basics, application procedures and diagnostic value of ABR, MLR, LV, ECOCG, P300, TEOAE and DPOAE.

Neurophysiology of Hearing and Speech Mechanisms: General and topographic anatomy and neurophysiology of central nervous system, with special attention to motor and sensory systems as they apply to speech, hearing and language. Identifying nonprogressive and progressive neurophysiology disorders, including cerebral palsy, Parkinsons disease, multiple sclerosis, muscular dystrophy, amyotrophic lateral sclerosis, Bell's palsy and myasthenia gravis.

Central Auditory Nervous System Disorders: Test techniques in differential diagnosis of CANS disorders in adults and children.

Anatomy and Physiology of Speech and Hearing Mechanisms: The structure and function of the speech and hearing organs; theories of hearing and phonation; introductory discussion of Pathologies of the auditory and vocal mechanisms. Course includes observation and discussion of Otorhinolaryngological examinations.

of patients seen in the Ear-Nose-Throat Clinic, and may include selected lectures given in the Anatomy Department.

Speech Pathology For Audiologists: Study of normal language and speech development; disorders of language and speech as in mental retardation, aphasia, multiple sclerosis, articulation defects, cleft palate, stuttering and others. Emphasis will be on the recognition of these speech disorders and their differential diagnosis in audiology.

Special Studies in Audiology: Review of research in clinical audiology and discussion of future trends.

Instrumentation and Amplification Systems: Basic principles of electronics and amplification; principles and practice in the function, care, and performance measurements of audiometric equipment and amplification systems, especially hearing aids.

Audiology Seminar and Clinical Practice: Discussion and readings in selected clinical problems; case demonstrations and supervised testing in the audiology and the Ear-Nose-Throat Clinic. This course provides laboratory and clinical experiences to complement concurrent theoretical studies and may be repeated for different content areas.

Vestibular System and Its Disorders I: Introduction to otoneurology, anatomy and physiology of the vestibular system, peripheral and central vestibular pathologies.

Vestibular System and Its Disorders II: Evaluation methods of the vestibular system, principles and application of the equipment, assesment of the test findings.

Cleft Palate Speech: Embryological development of cleft palate, and cleft lip, and classification, its effect on voice and speech. Plastic and physiological reconstruction methods. Voice and speech therapy methods after surgical operation.

Delayed Speech: Studying factors influencing delayed speech. Hereditary and neurological factors, birth injury and others (in detail). Applicable medical and rehabilitative therapy methods.

MARMARA ÜNİVERSİTESİ YAYINEVİ

BASIC RADIOLOGY

Head of Program: Prof. Canan ERZEN, MD.

The aim of this program is to educate academic staff who is going to train the students as radiology technologists and to teach them how to plan and develop projects and experimental studies which are releated with basic radiology.

Education period is 2 years.

All applicants are required to take an examination, held annually by Marmara University, Institute of Health Sciences. Radiology technologist who has a licence degree of any subject can enter this examination.

Language of Instruction: Turkish

MASTER'S PROGRAM IN BASIC RADIOLOGY

Quality Control in Conventional Radiology
Radiation Health and Protection
Principles of Computed Tomography

MARMARA ÜNİVERSİTESİ

BIOCHEMISTRY (MEDICAL)

Head of Program: Prof. Dr. KAYA EMERK

PROGRAM (M.S. and Ph.D.)

Research at the department deals with the pathogenesis and mechanisms of atherosclerosis. Main research topics include endothelial cells, lipid metabolism, lipoproteins, free radicals, antioxidants and lipid peroxidation, and membrane transport and their interactions.

Language of Instruction: Turkish

COURSE DESCRIPTIONS

General Biochemistry: Introduction to biochemical molecules and basic pathways in biochemistry.

Research Techniques: The principles and application fields of basic techniques which are used in biochemistry.

Protein Biochemistry: The structures of proteins, basic methods of analysis of their structure, functions of proteins, protein separation and purification.

Immunology: An introduction to general immunology and basic concepts.

Hormones: Classification and mechanism of action of hormones, basic hormones in human beings.

Metabolism in Biochemistry: Basic metabolic pathways in human body.

Enzymology: Classification, mechanism of action of enzymes, enzyme kinetics, control of enzyme activity, and clinical enzymology.

Protein Biosynthesis: Mechanism of protein biosynthesis in prokaryotic and eukaryotic organisms.

MARMARA ÜNİVERSİTESİ YAYINEVİ

BIOPHYSICS

Head of Program: Prof. Dr. Beki KAN

Biophysics is concerned with the physics of living systems and the application of physical methods to solving problems in biology and medicine. The program of post graduate studies aims to prepare students with an B.Sc. in Physics, Biology or Chemistry for a research and teaching career in universities. Students are expected to take courses in Biophysics, Molecular Biology and Physiology, attend departmental seminars and gain laboratory experience. Each student consults his/her advisor to plan the course schedule which may be different in each case depending on the students background. Students who have fulfilled the course requirements are qualified to start their dissertation research under the guidance of a member of the teaching staff. Research students working for their degrees are mostly involved in research projects in our department. The current research projects include (a) regulation of protein synthesis initiation and elongation in eukaryotes (b) the role of G proteins in erythroid cell differentiation and (c) characterization of muscarinic receptor subtypes in the gastrointestinal system.

Language of Instruction: Turkish

MASTER'S PROGRAM IN BIOPHYSICS

First Semester	Second Semester
Introductory Biophysics I	Introductory Biophysics II
Methods in Biophysical Research I	Methods in Biophysical Research II
Molecular and Cell Biophysics I	Molecular and Cell Biophysics II

COURSE DESCRIPTIONS

Introductory Biophysics I-II: An introductory and conceptual approach to biophysics, biophysical chemistry including bioenergetics, biopotentials, transport mechanisms and biopolymers.

Methods in Biophysical Research I-II: Methods used in research including separation techniques, instrumental analysis, radioisotopic methods.

Molecular and Cell Biophyics I-II: A physical approach to structure and function of biopolymers, their synthesis and intracellular signaling.

MARMARA ÜNİVERSİTESİ

Ph.D. PROGRAM IN BIOPHYSICS

First Semester

Clinical Biophysics I
Advanced Topics in Biophysics I
Membrane Biophysics
Physical Chemistry of Biological Systems
Medical Biophysics

Second Semester

Clinical Biophysics II
Advanced Topics in Biophysics II
Bioenergetics
Biophysics of Muscle and Nerve
Radiation Biophysics

COURSE DESCRIPTIONS

Clinical Biophysics I-II: Introduces the biophysical phenomena underlying the instruments used in medicine.

Advanced Topics in Biophysics I-II: Selected topics in biophysics and biophysical chemistry.

Membrane Biophysics: Basic course on structure and function of membranes.

Bioenergetics: A detailed approach to bioenergetic phenomena in the cell including evolution and information theory. Credit: 3 T.

Radiation Biophysics: Radiation physics, protection and instrumentation.

Medical Biophysics: The cardiovascular system respiratory system, nervous system and radiation biophysics. Cr

Physical Chemistry of Biological Systems: Molecular interactions, enzyme kinetics, themodynamics and bioenergetics, structure of biopolymers, acid base properties, equilibrium and transport in macromolecular systems.

Biophysics of Muscle and Nerve: A biomechanicistic approach to muscle contraction and motility and the bioelectric phenomena of nerve, muscle and sensory systems.

MARMARA ÜNİVERSİTESİ YAYINEVİ

FORENSIC MEDICINE

Head of Program: Prof. Oğuz POLAT, M.D.

Marmara University Faculty of Medicine, Forensic Medicine Department was established on April 1990. The department focuses its studies on violence especially child abuse and family violence.

The legal system very often needs the assistance of medical doctors as expert witnesses. At this Ph.D. program, theoretical and practical education in the different fields of forensic medicine are expressed, so the aim of this program is that the lack of the establishment in Turkey to teach on the field of forensic medicine are decreased gradually.

Candidates are required to graduate from a Medicinal school and to have good command of English. Thanatology, Traumatology, Child Abuse, Forensic Pathology, Forensic Toxicology, Medical Jurisprudence, Practical Education on Forensic Medicine, Forensic Pediatry, Forensic Victimology and Clinical Forensic Medicine are obligatory lessons.

Ph.D. PROGRAM IN FORENSIC MEDICINE

First Semester	Second Semester
Thanatology	Forenscic Pediatry
Traumatology	Forensic Victimology
Child Abuse	Clinical Forensic Medicine
Forensic Pathology	Social Medicine
Physical Anthropology	Psychology and Forensic Psychiatry II
Forensic Physician	Forensic Medicine and Ethics
Psychology and Forensic Psychiatry I	Practical Education on Forensic Medicine
Medical Ethics and General Rules	
Forensic Toxicology	
Principles of Criminal Law	
Practical Education on Forensic Medicine	

GASTROENTEROLOGY

Head of Program: Prof. Nurdan TÖZÜN, M.D.

The major aim of the Gastroenterology Institute is to offer students, fellows or academicians involved in gastroenterology a highly developed media for research and clinical application. The postgraduate programs of the Institute have the major role of orienting the students to the most outstanding subjects of gastroenterology such as molecular biology, motility, genetics, immunology, oncology and transplantation; the main areas of research at the moment are focused on molecular biology of hepatitis viruses, nutrition in gastrointestinal and liver diseases, GI motility and portal hypertension. Two master programs are concerned with viral hepatitis (epidemiology and molecular biology) and Gastrointestinal Motility. There is also a Ph.D. program under preparation about Gastrointestinal Molecular Biology.

MASTER'S PROGRAM IN VIRAL HEPATITIS

First Semester	Second Semester
Epidemiology of Viral Hepatitis	Epidemiology of Viral Hepatitis
Molecular Biology of Viral Hepatitis	Molecular Biology of Viral Hepatitis
Clinical Approach to Viral Hepatitis I	Clinical Approach to Viral Hepatitis I
Microbiology of Viral Hepatitis	Microbiology of Viral Hepatitis

COURSE DESCRIPTIONS

Epidemiology of Viral Hepatitis: Prevalence of hepatitis infection in Turkey and other countries, vertical and horizontal transmission, prevention and prophylaxis.

Molecular Biology of Viral Hepatitis: Detection of HBV DNA by dot blot hibyridisation, application of PCR in RNA detection, DNA and RNA sequencing, genomic variations of hepatitis viruses.

Clinical Approach to Viral Hepatitis: Introduction and classification of VH, Symptoms and signs, Hepatitis A,B,C,D,E,G,H pathology of hepatitis acute fulminant hepatitis, asymptomatic hepatitis infection, complications of VH, chronic hepatitis, cirrhosis and cancer, mutant viruses, hepatitis and pregnancy, childhood hepatitis.

MARMARA ÜNİVERSİTESİ YAYINEVİ

Microbiology of Viral Hepatitis: Serologic diagnosis of hepatitis viruses, ELISA and RIA techniques, first and second generation tests, RIBA and molecular biologic tests in the diagnosis of HCV infection.

Treatment of Viral Hepatitis: Various treatment modalities in viral hepatitis (antivirals, interferon, nucleocide analoques) liver transplantation.

MASTER'S PROGRAM IN PHYSIOLOGY OF DIGESTIVE SYSTEM

Head of Program: Prof. Nefise Barlas ULUSOY, M.D.

First Semester

Motility Physiology I
Treatment of Motility Disorders I
Technical of Manometry I

Second Semester

Motility Physiology II
Treatment of Motility Disorders II
Technical of Manometry II

COURSE DESCRIPTIONS

Motility Physiology I-II: General approach to motility, smooth muscle physiology (structure and electro physiology), enteric neurons (neurophysiology, sensory afferent nerves, prevertebral gangia), norotransmitters, esophagus motility, gastric emptying, small bowel motility, colonic and anal motility, biliary motility.

Techniques of Manometry I-II: Perfusion manometry, pressure transducers, Ph monitorisation technique, microtransducers, electrogastrography.

Treatment of Motility Disorders I-II: Motor disorders of esophagus and manometry, reflux esophagitis, Ph monitoring, gastroparesis and antroduodenal manometry, pseudoobstruction - small bowel manometry (ambulatory and stationary), constipation, anal pathologies and anal manometry, biliary and oddi sphincter pathologies, prokinetic agents and other therapies.

HISTOLOGY AND EMBRYOLOGY

Head of Program: Assoc. Prof. İmer OKAR, M.D.

Histology, is the microscopic morphological study of cells, tissues, organs and systems of the body, including the different examination techniques and methods.

Embryology, is the developmental study of a new human being from the beginning of life until birth.

The Department offers a Ph.D program.

Language of Instruction: Turkish

Ph.D. PROGRAM IN HISTOLOGY and EMBRYOLOGY

First Year

First Semester	Second Semester
General Histology	Advanced Histology
General Embryology	Advanced Embryology
Light Microscopy	Electron Microscopy

Second Year

First Semester	Second Semester
Investigation Techniques in Histology and Embryology I	Investigation Techniques in Histology and Embryology II
Histochemistry	Immunchistochemistry
Photography and Image analysis	Specialized Diagnostic Techniques
In Vitro Fertilization (IVF)	

COURSE DESCRIPTIONS

General Histology: The morphology and structures of the cell and tissues.

General Embryology: Gametogenesis, fertilization, implantation and development of the embryo.

Light Microscopy (physics and techniques): light, microscopes and routine techniques.

Advanced Histology: The morphology and structures of the organ systems.

Advanced Embryology: Morphogenesis and organogenesis of the fetus till birth.

Electron Microscopy: Physical and technical approach.

Investigation Techniques in Histology and Embryology I-II: Theoretical and practical maturation of investigation projects.

Histochemistry: Special staining techniques (theory and practice).

Photography and Image Analysis: Specific analysis methods.

Immunohistochemistry: Immunological staining techniques.

In vitro Fertilization: Laboratory techniques in fertilization.

Specialized Diagnostic Techniques: Special preparation and special staining for diagnostic aims.

MARMARA ÜNİVERSİTESİ

IMMUNOLOGY

Head of Program: Prof. Tevfik AKOĞLU, M.D.

The Immunology Ph.D. program provides theoretical and practical education in basic immunology. Well developed laboratory facilities are provided for students to teach basic scientific research methods in Immunology.

Candidates are required to have at least an M.S. Degree in Immunology or should have a BSc. in Medicine or in Veterinary Science.

Language of Instruction:

Ph.D. PROGRAM IN IMMUNOLOGY

First Semester	Second Semester
Clinical Immunology I	Clinical Immunology II
Humoral Immune System I	Humoral Immune System II
Immunoassay Methods I	Immunoassay Methods II
Basic Immunology I	Basic Immunology II

Students are also required to follow other courses (Molecular Genetics, Molecular Biology, Statistics, etc.) from other departments.

COURSE DESCRIPTIONS

Clinical Immunology I-II: Basic clinical immunology, relation of immunological reactions to clinical disorders are discussed.

Humoral Immune System I-II: This is mainly a practical course aiming to use different laboratory techniques to purify immunoglobulins from normal human sera, as well as Fab, Fc and $F(ab)_2$ fragments.

Immunoassay Methods I-II: Theoretical and practical application of different immunoassay methods.

Basic Immunology I-II: The principles and theory of basic immunology are described. Cell interactions in the humoral system, cellular products and cytokinesis are reviewed.

MANAGEMENT OF HEALTH INSTITUTES

Head of Program: Prof. Atıf AKDAŞ, M.D.

The program offers a Ph.D. degree in Management of Health Institutes. The aim of this program is to provide education about the hospital management. Candidates are required to have at least a university degree of a minimum of 4 years.

Language of Instruction: Turkish

Ph.D. PROGRAM IN MANAGEMENT OF HEALTH INSTITUTES

First Year

First Semester

Healthcare Services
Epidemiology and Basic Statistics
Medical Ethics
Principles of Management
Basic Concepts of Accounting

Second Semester

Financial Management in Health Institutes
Legal Aspects of Management in Health Institutes
Healthcare Management and Organization
Quality Assesment and Productivity in Healthcare
Economics of Healthcare

Second Year

First Semester

Scientific Research Methods in Healthcare I
Planning of Healthcare Services
Methods of Communication in Management
Public Relations and Marketing in
Personnel Relations in Healthcare

Second Semester

Scientific Research Methods in Healthcare II
Healthcare Politics
Computer Applications in Healthcare Services
Ambulatory Patient Care services
Case Analysis Studies

MEDICAL BIOLOGY AND GENETICS

Head of Program: Prof. Dr. Beyazıt ÇIRAKOĞLU

Molecular biology will make increasingly important contributions to Medicine, as the tools of molecular biology are now widely used in the detection of genetic disorders.

The graduate program of the Department of Medical Biology and Genetics is based on providing experience and proficiency in laboratory techniques especially related to the frequent genetic diseases in Turkey.

Students are expected to take courses concerning the recombinant DNA technology, advanced molecular biology techniques, genetic engineering, medical genetics, hybridoma technology, gene transfer and attend seminars and gain laboratory experience. Graduate students working in the department are mostly involved in research projects.

Current research projects in the Department of Medical Biology and Genetics include;

1 - Determination of serum HCV RNA in patients with chronic hepatitis C virus infection
2 - Detection and typing of PHV in cervico vaginal cells.
3 - Quantitation of HBV DNA in serum using the Dot-blot hybridization technique in patients with chronic liver disease in Turkey.
4 - Detection of aminoacyl-tRNA syynthetase activity in colorectal cancer patient.

Language of Instruction: Turkish

COURSE DESCRIPTIONS

Molecular Biology: Molecular biology of the cell nucleic acids and proteins, genes, gene expression and its regulation, recombinant DNA technology, restriction enzymes, nucleic acid hybridization, DNA cloning, transgenic plants and animals, gene therapy.

Medical Genetics: importance of genetics in medicine, classification of genetic diseases, cell cycle, structure and function of chromosomes, cytogenetics, and me-

thods in molecular genetics, prenatal diagnosis, genetic counseling, genetics of cancer, genetic aspects of development.

The Basics of Biotechnology: Introduction to biotechnology, methods in biotechnology, DNA methods, expression-protein synthesis, gene transfer methods, gene cloning in procaryotes and eucaryotes, hybridoma technology, biotechnology in industry, biotechnology in energy and environmental engineering.

Cytogenetics: Introduction to cytogenetics, chromosomes, methods of chromosome culture, chromosome disorders, sex chromatin.

Population Genetics: Introduction to population genetics, Mendel laws, Hardy-Weinberg equilibrium, detection of gene and genotype frequencies, consanguinity and recessive disorders, calculation of mutation rate, advantage of heterozygote.

Dermatoglyphics: Embryology and genetics of epidermal ridges, methods of dermatoglyphic detection, patterns of dermatoglyphics, quantitative characters and analysis, topology of dermatoglyphics, dermatoglyphics in normal population, congental defects of dermatoglyphics.

Polen Morphology: Differences in spor and polen, morphology of polen, terminology in polen morphology, types of polen, chemical structure of polen, homogeneous polens, heteromorph polens, polens of recombinants, methods in polen research.

Medical Biology: Introduction to medical biology, structure of the cell, cell division, development of embryo, tissue science, introduction to tissue formation in unicellular organisms, animal tissues, plant tissues, reproduction and embryonal development, reproductive system, circulatory system, respiratory system, nervous system, sense organs, musculoskeletal system and movement, taxonomy.

Molecular Virology: Molecular structure of viruses, DNA and RNA viruses, their replication mechanisms, virus-host interaction, tumor viruses and oncogenicity.

Molecular Immunology: Molecular structure of immunoglobulin molecules, antigen-antibody interactions, molecular mechanisms of antibody diversity, cellular events in the humoral and cellular immune response.

MICROBIOLOGY

Head of Program: Prof. Dr. Candan JOHANSSON

The program of graduate studies aims to prepare students with a B.Sc. in Biology, Pharmacy, Veterinary Medicine and Dentistry for a research and teaching career in universities and for leading positions in drug industry etc. Graduates of Medical Faculties may be accepted directly into Ph.D. programs. Students in M.S. and Ph.D. pograms are accepted to take courses in Microbiology, Immunology, Virology, Mycology, Bacterial Genetics, Food Microbiology or Industrial and Environmental Microbiology for 2 and 3 semesters for M.S. and Ph.D. degrees respectively, attend departmental seminars and case reports. Each student consults his/her advisor to plan the course schedule according to his/her background. After fulfilling the course requirements the students are qualified to start their dissertation research under the guidance of their supervisors. The period of dissertation research is 2 semesters for M.S. degree and minimum 3 semesters for Ph.D. degree.

Language of Instruction: Turkish

MASTER'S PROGRAM IN MICROBIOLOGY

First Semester

Advanced Microbiology I
Clinical Microbiology I
Fundamental Immunology

Second Semester

Advanced Microbiology II
Clinical Microbiology II
Environmental and Industrial Microbiology

Ph.D. PROGRAM IN MICROBIOLOGY

First Semester

Pathogenesis of Infectious Diseases
Advanced Microbiology I, II
Fundamental Immunology
Planning of Microbiological Research Works I

Second Semester

Microbial Genetics
Special Topics in Medical Virology
Medical Mycology
Planning of Microbiological Research Works II

Third Semester:
Planning of Microbiological Research Works III

MARMARA ÜNİVERSİTESİ YAYINEVİ

COURSE DESCRIPTIONS

Advanced Microbiology: The world of microorganisms, physiological processes, the interactions of microorganisms and the world around them, special microorganisms of medical importance.

Clinical Microbiology: Various conventional and rapid diagnostic techniques for bacteria, fungi, viruses and parasites.

Fundamental Immunology: An introductory and conceptual approach to immunology including antigens, immunoglobulins, antigen-antibody reactions, the complement system, cells of the immune system and hypersensitivity.

Medical Mycology: An introductory approach to mycology, medically important fungi and their diseases, antifungal therapy.

Special Topics in Medical Virology: Selected topics in viral infections, antiviral chemotherapy and molecular hybridization techniques.

Microbial Genetics: Basic genetic principles, use of bacteria in genetic investigations.

Pathogenesis of Infectious Diseases: A detailed approach to host-parasite interactions, mechanisms of pathogenicity in microorganisms, pathogenesis of selected infections.

Environmental and Industrial Microbiology: Microbiology of special environments, industrial use of microorganisms.

Planning of Microbiological Research Works I - II - III: How to carry out a research work. Reviewing the literature, establishing a method, evaluation of results, statistical analysis, writing a research paper.

PATHOLOGY

CYTOTECHNOLOGY

Head of Program: Prof. Sevgi KÜLLÜ, M.D.

The cytotechnology MSc training programs provide theoretical and practical education in gynecologic and non-gynecologic diagnostic cytology as well as processing biological specimens for cytologic analysis. Laboratory facilities are provided for students to teach routine pathology technical work and research methods in pathology.

Candidates are required to have a previous training in biological science or should have completed a previous technology course in pathological laboratory techniques.

Language of Instruction: Turkish

MASTER'S PROGRAM IN CYTOTECHNOLOGY

General Histology
Systemic Histology
General Cytotechnology
Systemic Cytotechnology

Students are also required to follow other courses (basic concepts in pathology, molecular biology, statistics, etc.) from other departments.

COURSE DESCRIPTIONS

General and Systemic Histology: Microscopic study of the human body, including normal structure and function.

General Cytotechnology: Basic cytomorphology, cytomorphologic features of gynecologic and nongynecologic cytology, fine needle aspiration, cytopreperation techniques and microscopic study are discussed.

Systemic Cytotechnology: Study of diagnostic cytopathology of different systems. management and professional issues are required components of cytotechnology curricula. Application of cytodiagnostic criteria to develop practical expertise in microscopic analysis. In addition students should be exposed to emerging diagnostic technologies.

MARMARA ÜNİVERSİTESİ YAYINEVİ

HISTOCHEMISTRY

Head of Program: Prof. Dr. Sevgi KÜLLÜ, M.D.

The histochemistry MSc program provides theoretical and practical education in conventional- immunohistochemistry and its application in diagnostic cytology and pathology.

Candidates are required to have an M.D. degree or to have graduated from faculty of pharmacy or completed a previous training in biological science or should have completed a previous technology course in pathological laboratory techniques.

Language of Instruction: Turkish

MASTER'S PROGRAM IN HISTOCHEMISTRY

General Histology
Sistemic "
General Cytotechnology
Sistemic "

Students are also required to follow other courses (basic concepts in pathology, molecuer biology, statistics, etc.) from other departments.

COURSE DESCRIPTIONS

General and Systemic Histology: Microscopic study f the human body, including normal structure and function.

General and Sistemic Histochemistry: Principles and theory of basic histotechnology and histochemistry are described. Theoretical and practical application of different conventional and immunological staining techniques and their diagnostic uses are studied mainly on practical basis.

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PHARMACOLOGY

Head of Program : Prof. Dr. Gül Ayanoğlu DÜLGER
Prof. Kemal BERKMAN, M.D.

The department of Pharmacology offers both an M.S. program and a Ph.D. program. School of Pharmacy graduates are accepted to the M.S. program which aims at a rigorous instruction of medicine to form the basis for a good education in pharmacology later. For this purpose, the students are obliged to take the 2nd and the 3rd years of the School of Medicine. Besides, they have to take the basic graduate courses in Pharmacology and prepare a thesis.

During the training of a Ph.D. degree, students are offered a well-balanced education in all fields of pharmacology both in theory and practice. They are also introduced to pharmacokinetics. Each topic is taught during a single academic year and examined at the end of it. Physiology, pathophysiology and pharmacology of the corresponding systems are reviewed with the active participation of the student. Along with other research assistants and postdoctoral research fellows the graduates also play an important role in the research activities of the Department. The student may take part in research projects carried out at the Department.

The graduates must prepare a thesis under the supervision of a member of the academic staff for the completion of the program. Courses designed for students of other allied sciences are also offered by the Department.

Language of Instruction: Turkish

COURSE DESCRIPTIONS

Basic Principles of Drug Action: Covers drug absorption, distribution and elimination, an introduction to pharmacokinetics, factors influencing drug effects, mechanisms of drug action and drug interactions.

Research Techniques in Pharmacology: Almost all of the methods (both in-vivo and in-vitro) used in pharmacological research are given. This is mainly a laboratory course.

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Adverse Effects of Drugs: Side effects and toxic effects of drugs and the underlying mechanisms are reviewed.

Clinically Important Drug Interactions: Pharmacodynamic and pharmacokinetic drug interactions are extensively reviewed.

Applied Pharmacokinetics: A course concerning mainly clinical pharmacists. Pharmacoknetics of some clinically important drugs and the application of this pharmacokinetic knowledge to clinical benefit are discussed.

Pharmacokinetics: An advanced course in Pharmacokinetics covering topics such as elimination kinetics, kinetics of pharmacologic effect, pharmacokinetics in disease states, distribution kinetics, individualization of drug therapy, pharmacokinetics in children and in the aged, pharmacokinetics during pregnancy etc.

Drugs Used for Doping: Review of drugs used for doping, their mechanism of action and toxicity.

Autonomic Nervous System Pharmacology: A review of autonomic nervous system physiology and drugs that affect it.

Cardiovascular Pharmacology: A review of drugs used in the treatment of cardiovascular diseases and their mechanisms of action.

Endocrine Pharmacology: A review of endocrine system pharmacology and drugs used to treat endocrine disorders.

Autocoids: A review of autocoids and drugs that affect their levels in the body or antagonize their effects.

CLINICAL PHARMACY

Head of Program: Prof. Dr. Fikret Vehbi İZZETTİN

This M.S. program aims to produce innovative leaders with the skills to pratice clinical pharmacy and to train others. The graduates of this program work within the health care team (doctor, nurses and others) to assist the physician and the patients. Clinical clerkships are conducted under the supervision of our staff and M.U. Faculty of Medicine clinical staff.

MARMARA ÜNİVERSİTESİ ENSTİTÜSÜ

MASTER'S PROGRAM IN CLINICAL PHARMACY

First Semester

Biology of Diseases
Advanced Biopharmaceutics and Clinical Pharmacokinetics
Clinical Biochemistry in Diagnosis and Treatment
Drug Information

Second Semester

Clinical Pharmacy and Therapeutics
Drug Monitoring (TDM)
Clerkships

COURSE DESCRIPTIONS

Biology of Diseases: This course deals with the pathogenesis of following topics:

a – Cardio Vascular System
b – Gastrointestinal System
c – Respiratory System
d – Nervous System
e – Others

Advanced Biopharmaceutics and Clinical Pharmacokinetics: In this course the student becomes familiar with the concept of biopharmaceutics which is the study of the relationship between physical and chemical properties of drugs and its dosage forms and the biological effects observed following the administration of the kinetics of absorption, distribution, metabolism and excretion of drugs, poisons and some endogenous substances.

Clinical Biochemistry in Diagnosis and Treatment: This course will explain all the relevant biochemical facts and theories necessary to the intelligent interpretation of analysis usually performed in the department of clinical chemistry.

Drug Information: This lecture deals with clinical use of drugs, side effects, contraindications for use, monitoring and patient education. Also this lecture deals with differences and the first choice of drug in the same group of drugs.

Clinical Pharmacy and Therapeutics: This course includes lectures on the role of the clinical pharmacist in therapeutics. It also expains how the pharmacist acts as an expert on drug products. And how he can serve both physician and patient as a knowledgeable advisor.

Drug Monitering (TDM): This course will expain how an effective therapeutic drug monitoring service is founded on good analytical practice and the efficient organisation of laboratory resources. At the same time the clinical pharmacist must have a good knowledge of the pharmacological and toxic properties of the drug measured, of their metabolics and distribution and how these are influenced by factors such as

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age and disease states. The clinical pharmacist is able to assist the physician in interpreting the analytic findings for an individual patient.

Clerkships:

Include-Case resentation
- Writing a review article
- Drug usage review
- Work shops
- Patient education and practice of Clinical Pharmacy in the hospital and community pharmacy.

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PHYSIOLOGY

Head of Program: Assoc. Prof. Berrak YEĞEN, M.D.

In programs leading to a Master's Degree, Physiology aims to give the student a full appreciation and understanding of the human body.

In programs leading to a Ph. Degree, Physiology aims to give detailed, up-to-date information on special subjects, and to motivate the students for research.

Language of Instruction: Turkish

COURSE DESCRIPTIONS

General Physiology: A course reviewing the general mechanisms and concepts with selected topics related to the field of study of the student.

Research Techniques in Physiology: A practical course for teaching some useful techniques that can be used in basic physiology research.

Gastrointestinal Motility: This course is concerned with new research about gut motility. Basic methods to measure the motor activity are shown during the course.

Introduction to Free Radicals: The aim of the course is to discuss the basic knowledge related with free radicals in health and disease and the major methods for their measurement.

Gastrointestinal Inflammation: The factors that cause acute or chronic inflammation in various organs of the gastrointestinal system and the agents that are involved in the pathophysiology of these inflammatory processes are discussed during the course.

Regulation of Blood Pressure and Blood Flow: The arterial and peripheral control mechanisms that are responsible of cardiovascular regulation and the pathophysiological mechanisms of hypertension, circulatory disturbances are discussed. The methods that are used in cardiovascular research are also involved in the objectives of the course.

Research Techniques in Neurophysiology: Gives practical information about widely used neurophysiological techniques.

Introduction to Neurophysiology: This course reviews the basic concepts of neurophysiology.

Neurotransmitters: A detailed course describing neurotransmitters, their metabolism and action.

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PUBLIC HEALTH

Head of Program: Prof. Şanda ÇALI, M.D.

The Department of Public Health is one of the major departments of Faculty of Medicine. This department is responsible for the curriculum of Phase III of medical students and also the Public Health training program of the Phase VI (internship year) students. The academic staff of the department are well experienced in Primary Health Care Services, Public Health Administration, Maternal and Child Health Care, Family Planning, Occupational Medicine, Health Education, Biostatistics, Epidemiology and Introduction to Anthropology. Department of Public Health offers a Ph.D. degree.

Language of Instruction: Turkish

COURSE DESCRIPTIONS

Epidemiology: Includes subjects such as field survey and research methods, descriptive and analytical studies, methods of collecting and summarizing data, and investigation of epicemics.

Public Health Administration: Includes subjects such as health care planning, organization and evaluation, structure and functions of different health care systems, health economics, health manpower planning, international health, organization of preventive and curative services, health policy and politics of health.

Maternal and Child Health Care: Some subjects are indices for the evaluation of maternal and child health care evel, immunization, family planning programs and practices, organization of child health care services, research methods in maternal health, and research methods in child health.

Occupational Medicine: Significance of metals to health, diseases associated with exposure to chemical substances, pesticides, pulmonary responses to gas and particules, illness due to thermal extremes, ionizing and nonionizing radiation, ergonomics, industrial hygiene, occupational cancers, surveillance, monitoring and screening in occupational health.

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Psycho-social Determinants of Health: Social determinants of health, health and culture, sociology of health, behavioral determinants of health, stressful life events, risk taking behavior and health, medical anthropology.

Health Education: Educational methods, programs and practices in Public Health.

Biostatistics: Exploring and presenting data, summarizing data in medical research, probability sampling and probability distributions, drawing inferences from data, estimation and comparing means, estimating and comparing proportions, correlation and regression, statistical methods for multiple variables, evaluating diagnostic procedures.

Introduction to Anthropology: The development of Anthropology in the 19th and 20th centuries, the concepts of culture and ethnocentrism, fieldwork research in anthropology, comparative values of qualitative and quantitative data, health and illness as meaning systems in cultures, the holistic approach to the analysis of societies, social stratification and the health sector. Visual anthropology: films as a means of communication and films as cultural artifacts.

MARMARA UNIVERSITESI

NURSING

CHILD HEALTH AND DISEASES NURSING

Head of Program: Assist Prof. Hatice PEK

The aim of this program is to provide a post-graduate education in Child Health and Diseases Nursing. The MS degree is given after the completion of a 4-semester program.

Language of Instruction: Turkish

MASTER'S PROGRAM IN CHILD HEALTH AND DISEASES NURSING

First Semester	Second Semester
Child Health and Diseases Nursing I	Child Health and Diseases Nursing II
The Concepts Related to the Child Health I	The Concepts Related to the Child Health II

Students are also required to follow other courses (Biostatistics, Ethics, Antropology, Health Education, Nursing Education, Physiology, Health Promotion) from other departments.

COURSE DESCRIPTIONS

Child Health and Diseases Nursing I-II: Child health and diseases nursing, growth and development in childhood and adolescence, the condition of the child health in the world and Turkey, primary health care and the role of the nurse, nosocomial infections acute illnesses in children and nursing care, chronic illnesses in children and nursing care, health education for the child and family, the process of pediatric nursing.

The Concepts Related to the Child Health I-II: Human being, health and disease, environment, self and body image, communication, emphaty, anxiety, stress, crises and adaptation, pain, hope and hopelessnes, social isolation, sensory deprivation, aloneless, death perception and reactions, loss and grief.

MARMARA ÜNİVERSİTESİ YAYINEVİ

COMMUNITY HEALTH NURSING

Head of Program: Assoc. Prof. Seçil AKSAYAN

The aim of this program is to prepare students for community health nursing practice and to meet changing health and nursing needs of the community. The students are expected to acquire the knowledge of concepts and skills for practice through the theoretical and practical education.

Candidates are required to have a BS. degree in Nursing.

Language of Instruction: Turkish

MASTER'S PROGRAM IN COMMUNITY HEALTH NURSING

First Semester	Second Semester
Community Health Nursing Concepts and Practices I	Community Health Nursing Concepts and Practices II
Health Education	Health Promotion

Students are also required to follow other courses (Epidemiology, Biostatistics, Anthropology in Health, Nursing Education etc.) from other departments.

COURSE DESCRIPTIONS

Community Health Nursing-Concepts and Practices I-II: This course includes theoretical hours to review the concepts relates to community health and community health nursing, Philosophy of community health nursing, community health nurses roles, duties and responsibilities in organization and delivery of health services, health assesment of communities, families and individuals through their developmental stages, ethical issues in community health nursing, and also practical hours.

Health Education: This course analyses the importance, objectives, principles, planning and evaluation models, techniques and materials of health education.

Health Promotion: This course focuses on the concepts of health-illness- disease, health related behaviors and healthy life styles, psycho-social aspects of health, health promotion activities for the individuals according to their developmental stages.

FUNDAMENTALS OF NURSING

Head of Program: Assist Prof. Şule Ecevit ALPAR

The aim of this program is to provide a post-graduate education in Fundamentals of Nursing. The M.S. degree is given after the completion of a four-semester program.

Language of Instruction: Turkish

MASTER'S PROGRAM IN FUNDAMENTALS OF NURSING

First Semester	**Second Semester**
Fundamentals of Nursing I	Fundamentals of Nursing II

Students are also required to follow other courses (Biostatistics, Physiology, Education of Health, Anthropology in Health, Antibiotics and Antimicrobialls, Nursing Education etc...) from other departments.

COURSE DESCRIPTION

Fundamentals of Nursing I-II: What is Nursing, Concepts of health; Concepts of Health-illness - human – environment; Concepts and theories; Homeostatis; Nursing Process; Fluid-Electrolyte Balance; Sterilisation, Disinfection, Antisepsis and Isolation; Advanced Care of Body Systems; Nursing Implementations and Interventions of diagnostic tests; Medical Developments; Nursing interventions in special units, terminal care.

MARMARA ÜNİVERSİTESİ YAYINEVİ

MEDICAL NURSING

Head of Program: Assist. Prof. Nermin OLGUN

The aim of this program is to provide a post-graduate education in Medical Nursing. The M.S. degree is given after the completion of a four-semester program.

Language of Instruction: Turkish

MASTER'S PROGRAM IN MEDICAL NURSING

First Semester	Second Semester
Medical Nursing I	Medical Nursing II

Students are also required to follow other courses (Biostatistics, Physiology, Education of Health, Anthropology in Health, Nursing Education etc...) from other departments.

COURSE DESCRIPTION

Medical Nursing I-II: Concepts of Health-Illness-human, Medical Emergencies, Infectious Diseases, Cardiovascular Diseases, Hematology and Oncology, Respiratory Diseases, Gastroirtestinal Diseases, Neurology, Endocrine Diseases, Psyco-somatic Diseases and nursing care for these subjects.

NURSING ADMINISTRATION AND MANAGEMENT

Head of Program: Assist Prof. Nefise BAHÇECİK

The aim of this program is to provide a post-graduate education in Management in Nursing Services. The MS degree is given after the completion of a 4-semester program.

Language of Instruction: Turkish

MASTER'S PROGRAM IN NURSING ADMINISTRATION AND MANAGEMENT

First Semester	Second Semester
Nursing Administration and Management I	Nursing Administration and Management II

Students are also required to follow other courses (Biostatistics, Health Education, Management of Organization, Management of Education, Concept and Theory etc.) from other departments.

COURSE DESCRIPTION

Nursing Administration and Management I-II: Essentials of concepts and theories in management, philosophy and goals of nursing management, definition, essentials of concepts and theories in organization, essentials of effective managements, nursing care delivery systems, health care systems, health team and role building, organization of nursing services, staff development, assertive, health law, participative management, coaching, meeting management, total quality management, budgeting, time management, management of support services.

MARMARA ÜNİVERSİTESİ YAYINEVİ

OBSTETRICS AND GYNECOLOGIC NURSING

Head of Program: Assoc. Prof. Dr. Hediye EKİZLER

The department offers a postgraduate nursing program. Graduates from this program obtain an MS in Nursing and Ph.D. in Nursing.

The M.S. program takes about two years, however the Ph.D. program is approximately four years.

Language of Instruction: Turkish

MASTER'S PROGRAM IN OBSTETRICS AND GYNECOLOGIC NURSING

First Semester	Second Semester
Obstetrics and Gynecologic Nursing I	Obstetrics and Gynecologic Nursing II

Students are also required to follow other courses (Biostatistics, Physiology, Health Education, Nursing Education, etc...) from other departments.

COURSE DESCRIPTION

Obstetrics and Gynecologic Nursing I-II: Womens health, period of antenatal, pregnancy, delivery and postnatal nursing care and family planning, gynecologic diseases, psychological aspects of maternal and child health in Turkey and the world.

Ph.D. PROGRAM IN NURSING

First Semester	Second Semester
Obstetrics Nursing	Gynecologic Nursing
Concepts and Theores in Nursing I	Concepts and Theories in Nursing II
Family Planning	Health Assesment
Applied Computer	Health of Reproduction

COURSE DESCRIPTIONS

Obstetrics Nursing: Period of antenatal, pregnancy, delivery and postnatal nursing care. Risk factors, fetus and neonatal and maternal.

Gynecologic Nursing: Women's health, gynecologic diseases in Turkey and the world. Early assesment methods of gynecologic diaseases.

Concepts and Theories in Nursing I-II: Famous theorists in Nursing, importance of concepts and theories in nursing care.

Health Assesment: Detailed health history, complete physical assesment, review of common laboratory studies, common normal findings, important abnormal finding.

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PSYCHIATRIC NURSING

Head of Program: Assoc. Prof. Dr. Gülten ÖZALTIN

The aim of this program is to provide a post-graduate education in Psychiatric Nursing. The MS degree is given after the completion of a 4-semester program.

Language of Instruction: Turkish

MASTER'S PROGRAM IN PSYCHIATRIC NURSING

First Semester	Second Semester
Psychiatric Nursing I	Psychiatric Nursing II

COURSE DESCRIPTION

Psychiatric Nursing I-II: Description of Psychiatric Nursing, Principle of Psychiatric nursing, Application of the Nursing process in Psychiatry, Psychosomatic Disorders and Approach of Nursing, Major Psychiatric disorders, Psychiatric Rehabilitation and Psychiatric nurse's Role, Child Psychiatry, Nursing Care of the Dying, Psychiatric Nursing in the Community, Psychiatric Consultation-Liaison Nursing, Psychotherapies and Nurse's Role in Psychotherapies. Students are also required to follow other courses (Biostatistics, Education of Health, Education of Nursing atc...) from other departments.

SURGICAL NURSING

Head of Program: Assoc. Prof. Deniz ŞELİMEN

The aim of this program is to provide a post-graduate education in surgical nursing. The M.S. degree is given after the completion of a 4-semester program. The students are expected to acquire the knowledge of concepts and skills for practice through the theoretical and practical education.

Candidates are required to have a BS degree in Nursing.

Language of Instruction: Turkish

MASTER'S PROGRAM IN SURGICAL NURSING

First Semester	Second Semester
Surgical Nursing I	Surgical Nursing II

Students are also required to follow other courses (Biostatistics, Physiology, Health Education, Nursing Education etc.) from other departments.

COURSE DESCRIPTION

Surgical Nursing I-II: Concepts of health, Homeostasis, Nursing process in surgical nursing, Infection control in surgical unit, Sterilisation-disinfection and antisepsis, Fluid-electrolyte and acid-base imbalances and total parenteral nutrition, Emergency care, Nursing in the intensive care unit, trauma care, preoperative-peroperative-postoperative care; General symptoms in surgery, Anesthesia, Wound healing, Burns, New technology in surgery, Diagnostic procedures in surgery, surgical oncology, transplantation nursing

MARMARA UNIVERSITESI YAYINEVI

PHARMACEUTICAL SCIENCES

ANALYTICAL CHEMISTRY (PHARMACY)

Head of Program: Prof. Dr. Emre DÖLEN

The Analytical Chemistry section of the Department of Basic Sciences of the Faculty of Pharmacy offers M.S. and Ph.D. degrees in Analytical chemistry.

Language of Instruction: Turkish

MASTER'S PROGRAM IN ANALYTICAL CHEMISTRY

First Semester	Second Semester
Spectroscopic Analysis I	Chromatographic Analysis I
Basic Programming For Chemical Calculations	The Structure of Atom and Bonding Theories
Selected Topics in Physical Chemistry	Solubility and Crystallization
Analytical Chemistry Seminars I	Statistical Evaluation of Experimental Results
Optional Course	Optional Course

Ph.D. PROGRAM IN ANALYTICAL CHEMISTRY

First Semester	Second Semester
Selected Topics in Analytical Chemistry I	Selected Topics in Analytical Chemistry II
Spectroscopic Analysis II	Reaction Mechanisms and Chemical Kinetics
Chromatographic Analysis II	Coordination Chemistry
Analytical Chemistry Seminars	Electrochemical Course
Optional Course	Optional Course

OPTIONAL COURSES

Physicochemistry of Surfactants
Chemistry of Boron and Silicon
Analytical Separations
Dyes and Their Analysis

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COURSE DESCRIPTIONS

Spectroscopic Analysis I: Electromagnetic radiation, Lambert-Beer Law and its applications, the sources of errors.

Application of Molecular UV/Vis. Abs. Spectroscopy Quantitative Analysis.

Enstrumantation. Methods for quantification (spectrophotometric titrations, determination of equilibrium constans etc) Analysis of mixtures.

Qualitative Analysis: The effects of solvents and functional groups of substances. Calculation of the max. Absorption wavelength by Woodward rules. Derivative spectrophotometer and its applications.

Spectroscopic Analysis II: Molecular Fluorescence and Phosphorescense. Enstrumantation and applications IR absorption spectroscopy Enstrumantation and applications. Qualitative and quantitative analysis by IR
Nuclear magnetic Resonans Spectroscopy Enstrumantation and application of proton NMR.
Mass spectroscopy. Enstrumantation and applications.
Atomic Abs. Spectroscopy. Enstrumantation and applications.
Some other spectrophotometric methods. Colorimetry, turbidimetry, nephelometry.

Chromatographic Analysis I: A General description and Basic principles of Chromatography.
Important relationships for Chromatography
Classification of Chromatography: Column chromatography, Thin layer chrom., paper chrom. and ther applications.

Chromatographic Analysis II: General principles of gas chromatography. Classification of gas chromatography. Principles and instruments for gas-liquid and gas-solid chromatography. Gas chromatographic columns and stationary phases and deaction. Applications.

High Pressure Liquid Chromatography: Principles and instruments. HPLC columns and stationary phases and deduction. Applications: Normal phase, reverse phase ion exchange, ion pairing, size exclusion chromatographies. Qualitative and quantitive analysis.

Basic Programming for Chemical Calculations: A general description of computers. Instructions for BASIC. Programming technes. Algorithm. Unit changing programs based on SI system. Some statistical programs and regression, the last square etc. Some programs for chemical calculations. (Related to titration, chemical kinetics, redox reactions, structure of atom.)

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Selected Topics in Physical Chemistry: Solutions, colligative properties of solutions, increasing of boiling point. Decreasing of freezing point. Osmetic pressure, photochemistry, photochemical reactions, homogen and heterogen catalysis, adsorption.

The Structure of Atom and Bonding Theories: The electrical nature of matter and composition of atoms. The properties of electrons and nucleus. Electromagnetic radiation. Emission spectrums. The quantum theory, the Bohr model of atomic structure, modern atom theory. The composition and structure of the nucleus. Energy from the nucleus. Bonding theories. Ionic and covalent bonds, hybrid orbital. Intermolecular forces of attraction.

Solubility and Crystallization: Solid state, crystalline and amorphous solids, structure of crystals. Close packing or molecules. Solubility and the factors effecting on solubility. Theories of crystallization. Kinetics and the modynamics of crystallization and solubilization. Separation technice via crystallization.

Statistical Evaluation of Experimental Results: Planning the analysis. Making a decision on the analysis method. Errors, minimizing the errors. Gauss distribution, standart deviation and it's applications t-test, omitting the suspicious values.

Selected Topics in Analytical Chem: Acid-base systems and ionic equilibria. The calculation of relative abundance of the species in equilibrium. The investigation of the changing of relative abundances according to pH. The calculation of conditional formation constants and investigation of their changing according to pH. Determination of formation constants by potantiometry.

Reaction Mechanisms and Chemical Kinetics Reaction Rate: Reaction rate. Dependence of reaction rate on concentration of reactants. Effect of temparature on reaction rate. Kintic classification of chemical reactions. Reaction order. The methods used for determination of reaction rates.

Electroanalytic Analysis: Potentiometric methods. Potentiometric titrations and calculation methods. Nernst relationship and it's applications. Ion selective electrodes. Voltammeter, polarography, electrogravimetry conductometry.

Coordination Chemistry: The structure of coordination compounds, nomenclature of coordination compounds. The coordination number. Stability constants. Determination of stability constants. Isomerism in coordination compounds. Chemical equilibrium of complexion reactions in aqueous solutions and their applications in analytical chemistry.

Physicochemistry of Surfactants: Surfactants. Solid-liquid, liquid-liquid and liquid-gas interfaces. Micelling and their preparations. Foams.

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Chemistry of Boron and Silicon: The chemical properties of boron. Inorganic boron compounds. Organoboron compounds, borohydrides. Boron in analytical chemistry, the chemical properties of silicon. Inorganic silicon compounds. Silicates, organosilicon compounds. Silicon in analytical chemistry.

Analytical Separations: Methods of extraction. Distillation, steam distillation. Filtration techniques.

Dyes and Their Analysis: Natural and synthetic dyes. Dying methods and mechanisms. Removing the dyes from fibers. Identification of dyes using TLC, HPLC and spectrophometric methods.

MARMARA ÜNİVERSİTESİ 1883

BIOCHEMISTRY (PHARMACY)

Head of Program: Prof. Dr. K. Turay YARDIMCI

Both M.S. and Ph.D. degrees are offered. This program is carried out jointly by the biochemistry sections of the departments of basic sciences of the Marmara University, Faculties of Pharmacy and Dentistry.

GRADUATE COURSES

First Semester	Second Semester
Theoretical Clinical Biochemistry I	Theoretical Clinical Biochemistry II
Applied Clinical Biochemistry I	Applied Clinical Biochemistry II
Advanced Biochemistry I	Advanced Biochemistry II
Gene Expression	Hormone Action
Proteins and Enzymes I	Proteins and Enzymes II
Introduction to Immunology	Natural Bioactive Proteins
Biological Membranes and Transport Systems	Genetic and Metabolic Control
Biochemical Research Techniques I	Biochemical Research Techniques II
Coagulation Biochemistry I	Coagulation Biochemistry II
Clinical Biochemistry in Diagnosis and Therapy	Hemostasis and Thrombosis
Selective Topics I	Selective Topics II

COURSE DESCRIPTIONS

Theoretical Clinical Biochemistry I-II: Clinical reflection of functional defects in various metabolic pathways under pathological conditions.

Applied Clinical Biochemistry I-II: Analysis of biochemical parameters together with hematological tests in various biological fluids; spectrophotometric, RIA, ELISA microscopic etc. techniques.

Advanced Biochemistry I-II: Cell biology; bioenergetics and biomolecules; biological membranes and transport; muscle contraction; special functions of connective tissue proteins.

Gene Expression: Transcription stages and their regulation; RNA polymerases, translation stages, Wobble theory, last stage of protein synthesis; folding and covalent modification; lactose operon; catabolite repression; arabinose and tryphophane operons, genetics of antibody diversity; genetics of cancer.

Hormone Action: Hormone action mechanisms; adenylate cyclase cascade; formation of cAMP and its degradation, evaluation of cAMP, G-protein; seven-helix motif of the adrenergic receptor; phosphoinositide cascade; eicosanoid hormones; tyrosine kinase activity; steroid and thyroid hormones.

Proteins and Enzymes I-II: Structure and functions of proteins; structure determination and purification of enzymes; enzyme kinetics; mode of enzyme action; enzymes of organised systems; isoenzymes; enzyme turnover; clinical enzymology; enzyme biotechnology.

Introduction to Immunology: Immune system cells; HLA complex; antibody formation; structure of immunoglobulins; inflammation mechanism; complement systems; cellular and humoral immunity.

Natural Bioactive Proteins: Isolation of proteins with antitumoral, antiviral, antibacterial, profibrinolytic, antiaggregant and anticoagulant effects from microorganisms, plants and animal tissues; determination of their activities.

Biological Membranes and Transport Systems: Structure and function of cellular and intracellular membranes; membrane fluidity; transport systems; receptors; binding proteins; characterization of the transport systems.

Genetic and Metabolic Control: Cell physiology; endocrinological chemistry; interrelations between metabolic pathways; genetic and enzymatic regulation-operon theory, feedback control, hormonal control, allosteric control, covalent modification.

Biochemical Research Techniques I-II: Isolation of cellular organelles; purification of biological macromolecules-differential centrifugation, precipitation with salts, column chromatography, affinity chromatography; analysis of proteins and drugs with HPLC; electrophoresis-cellulose acetate, Davis-PAGE, SDS-PAGE, isoelectrofocusing, immunoelectrophoresis, proteoglican electrophoresis, lipid electrophoresis; flow cytometric techniques; agargel precipitation tests; ELISA, RIA; immunofluorescence techniques; molecular biology techniques-plasmid isolation, DNA isolation, PCR, probe preperations, designing of primers, polyclonal antibody preparations.

Coagulation Biochemistry I-II: Hemostatic system; structure and specificatics of coagulation proteins; plasma proteins and their relation to fibrinolytic system; natural inhibitors in hemostatic system.

Clinical Biochemistry in Diagnosis and Therapy: Biochemical parameters in diagnosis and in therapy; effects of drugs on these parameters; drug monitoring.

Hemostasis and Trombosis: Coagulation mechanism; platelet functions; fibrinolysis; natural inhibitors; endothelial cell; effect of some drugs to these mechanisms under normal and pathological conditions; molecular and genetic defects of diseases.

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PHARMACEUTICAL BOTANY

Head of Program: Prof. Dr. Ertan TUZLACI

Folk medicinal plants, plant taxonomy and Flora of Turkey. The program offers MS and Ph.D. degrees in Pharmaceutical Botany.

Language of instruction: Turkish

MS and Ph.D. PROGRAMS IN PHARMACEUTICAL BOTANY

First Year

First Semester	Second Semester
Flora of Turkey I	Flora of Turkey II
Plant Identification I	Plant Identification II
Plant Taxonomy and Its Basic Principles	Scientific and Academic Principles and Rules
Active Substances of Plant Drugs	

Second Year

First Semester	Second Semester
Flora of Turkey III	Flora of Turkey IV
Plant Identification III	Plant Identification IV
Plant Anatomy I	Plant Anatomy II
Useful Plants	Vegetation of Turkey
	Cultivation of Medicinal and Economic Plants

COURSE DESCRIPTIONS

Flora of Turkey (I-II-III-IV): Descriptions of the families pertaining to Pteridophyta and Spermatophyta in the Flora of Turkey. Some diagnostic and comparative morphological characteristics in the genera and the species. Distribution of plants.

Plant Identification (I-II-III-IV): Identification of dried specimens or living plants in various families of the Flora of Turkey.

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Plant Taxonomy and Its Basic Principles: Principles of plant taxonomy. Taxonomical categories. Taxonomical data. Botanical nomenclature. Herbarium. Botanic garden.

Scientific and Academic Basic Principles and Rules: Science. University. Scientific research and studies. Academic principles.

Active Substances of Plant Drugs: Isolation of active substances: organic acids, musilage, cardio-active glycosides, antraquinories, saponins. coumarins, tannins, volatile oils, alkaloids terpenes, fixed oils, iridoids.

Plant Anatomy (I-II): Cell and tissues. The anatomy of the root, stem, leaf, flower and fruit.

Useful Plants: Plants used as sources of food, spice, medicine, fiber, dye, gum, resin, oil etc. Aromatic plants. Herbal teas. Plants used in perfumery and cosmetics.

Vegetation of Turkey: Floristic elements. Distribution of plants. Forests, maquis, phyrygana. Steppic, aquatic and coastal plants. Turkish mountain flora and vegetation.

Cultivation of Medicinal and Economic Plants: Methods of plant cultivation. Vegetative propagation. Seed and seedlings. Cell culture.

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PHARMACEUTICAL CHEMISTRY

Head of Program: Prof. Dr. Sevim ROLLAS

The purpose of this program is to provide basic knowledge on the synthetic research on new drugs and related molecules and investigation of their possible pharmacological activities; the biotransformations of drugs and model chemical compounds in biological systems; qualitative and quantitative research on drugs and related molecules using sensitive analytical procedures.

Language of Instruction: Turkish

MASTER'S PROGRAM IN PHARMACEUTICAL CHEMISTRY

First Semester

Selected Topics in Pharmaceutical Chemistry I
Qualitative Pharmaceutical Analysis
Quantitative Pharmaceutical Analysis
Structure-Activity Relationships
Organic Reactions
Biological Exidation of Drugs
Advanced Organic Chemistry I

Medicinal Chemistry I
Selected Topics in Pharmaceutical Chemistry III
Chemical Aspects of Drug Metabolism
Techniques in Drug Metabolism I

Second Semester

Selected Topics in Pharmaceutical Chemistry II
Professional English
Advanced Organic Chemistry II
Antibiotics
Steroid Hormones
Techniques in Drug Metabolism II
Isolation and Identification Techniques for Metabolites
Medicinal Chemistry II
Selected Topics in Pharmaceutical Chemistry IV
Conjugation Reactions

COURSE DESCRIPTIONS

Qualitative Pharmaceutical Analysis: Identification of functional groups by chemical, chromatographic and spectroscopic methods (UV, IR, NMR, MASS)

Quantitative Pharmaceutical Analysis: The quantitative analysis of drugs using spectroscopic and chromatographic techniques (HPLC, GC, UV).

Selected Topics in Pharmaceutical Chemistry I-II: The quantitative analysis of some drug groups. The synthesis, analysis and chemical and pharmacologic aspects of drugs as new therapeutic agents.

Structure-Activity Relationships: Solubility, log P, parameters, Chemical Bonds, Chelation, Isosteroism, Stereocochemical Characterisics.

Organic Reactions: The most widely used reactions in synthetic studies.

Professional English: Translation, academic writing, learning to use the patterns commonly used in academic life, especialy in health sciences.

Advanced Organic Chemistry I-II: Chemical bonds, nucleophilic and electrophilic substitution, elimination, addition, oxidation and reduction reactions.

Medicinal Chemistry I-II: The relationships between biological systems and drug molecules. The relationships betwen biological response and structure-physicochemical characteristics. The mechanisms of drug activity.

Antibiotics: Their synthesis, classification chemical profiles and pharmacological use.

Steroid Hormones: General structures, biosynthesis, chemical synthesis of steroid hormones i.e. estrogens and androgens.

Techniques in Drug Metabolism I: The aim and objectives of drug metabolism reactions and their effects in the organism, the strategy used in drug metabolism studies, the preparation techniques for biological systems ie microsomal preparations, in vitro and in vivo techniques, metabolism kinetics, enzymology and interpretation of results.

Techniques in Drug Metabolism II: Extraction, separation, preparation of biological systems, reactions with biological systems, analysis and identification of metabolites using sensitive techniques i.e. spectroscopy, spectrometry and chromatography.

Selected Topics in Pharmaceutical Chemistry III-IV: Five and six membered heterocylic structures and related drugs.

Drug Metabolism: A major interest of this program is to establish the chemical mechanism and enzymology involved in the metabolic biotransformations of nitrogen, sulphur and oxygen containing compounds. Biotransformation of drugs and other xenobiotics with particular emphasis on the following a) metabolic N-oxygenation of organic nitrogen compounds, characterisation of enzyme systems mediating specific N-oxidations b) metabolism of heterocyclic drugs and xenobiotics c) design of pro-drugs d) in vivo metabolism of aromatic amides and esters.

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Biological Oxidations: The chemical, enzymatic, pharmacological and toxicological aspects of biological oxidations of nitrogen, carbon and sulphur containing molecules including drugs and other xenobiotics.

Chemical Aspects of Drug Metabolism: Synthetic route to drug metabolites. Oxidative, reductive and hydrolytic reactions.

Conjugation Reactions: Phase II reactions, substrates, stereo-selectivity, enzymes and enzyme inhibitors, the effect of other substrates.

Isolation and Identification Techniques for Metabolites: Chromatographic techniques used in the isolation of metabolites ie HPLC, TLC, GC and combined techniques; extraction, spectroscopic techniques used in the identification of metabolites.

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PHARMACEUTICAL MICROBIOLOGY

Head of Program: Prof. Dr. Adile ÇEVİKBAŞ

The Pharmaceutical Microbiology Master's program provides theoretical and practical education in basic Pharmaceutical Microbiology. The students are prepared for a research and teaching carrier in Universities and for leading positions in drug industry. Candidates are required to have a B.Sc in Pharmacy, Biology, also Veterinary Science.

Language of Instruction: Turkish

MASTER'S PROGRAM IN PHARMACEUTICAL MICROBIOLOGY

First Semester	**Second Semester**
Antimicrobial Agents	Sanitation, Disinfection, Asepsis in Pharmaceutical Industry.
Sterilization Disinfection and Asepsis	Advanced Pharmaceutical Microbiology II
Advanced Pharmaceutical Microbiology I	
Pathogenesis of Infectious Diseases and their Treatment	

Students are also required to follow other courses (Advanced Microbiology I and II, Statistics.. etc) from other departments.

COURSE DESCRIPTIONS

Antimicrobial agents: Classification of antibiotics, Mechanism of action of antibiotics, Clinical uses of antimicrobial drugs, bacterial resistances to antibiotics, production of antibiotics, The effect of antimicrobial drugs on immune system are discussed.

Sterilization, Disinfection and Asepsis: Germ-free technology, Chemical disinfection of medical and surgical materials, sterilization disinfection and asepsis in dentistry and hospital, disinfection of drinking water and treated sewage effluents are discussed.

Advanced Pharmaceutical Microbiology I: Biology of microorganisms, ecology of microorganisms as it affects the pharmaceutical industry. Microbial spoilage and

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preservation of pharmaceutical products. Principles of methods of assaying antibiotics, Mode of action of non-antibiotic antibacterial agents, fundamental immunology, the manifacture and quality control of immunological products are discussed.

Pathogenesis of Infectious Diseases and their Treatment: Biology and mechanisms of some important infectious diseases and their treatment are discussed.

Sanitation, Disinfection, Asepsis in Pharmaceutical Industry: Factory and hospital hygene and good manifacturing practise ... are discussed.

Advanced Pharmaceutical Microbiology II: Microbiological quality control, contamination of non sterile pharmaceuticals in hospital and community environments, sterile pharmaceuticals in hospital and community environments, sterile pharmaceutical products production of therapeutically useful substances by recombinant DNA technology, Additional application of microorganisms in the pharmaceutical sciences are discussed.

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PHARMACEUTICAL TECHNOLOGY

Head of Program: Prof. Dr. Betül DORTUNÇ

The purpose of this department is to provide a basic background on the design and evaluation of pharmaceutical dosage forms.

Language of Instruction: Turkish

MASTER'S PROGRAM IN PHARMACEUTICAL TECHNOLOGY

First Semester

Physical Pharmacy I
Analytical Methods in Pharmaceutical Technology
Tablet Technology
Biopharmaceutics I
Controlled Release Systems I
Stability
Selected Topics in Physical Pharmacy
Experimental Design in Pharm. Technology

Second Semester

Biopharmaceutics II
Physical Pharmacy II
Pharmaceutical Biotechnology
Hospital Pharmacy
Controlled Release Systems II

COURSE DESCRIPTIONS

Analytical Methods in Pharmaceutical Technology: Pharmaceutical analysis including methods such as spectrophotometric, chromatographic, enzyme-immunoassay, liquid scintilation counting.

Tablet Technology: Tablet excipients, the types of tablets, methods of preparation, and physics of tablet compression.

Biopharmaceutics I: The effects of excipients and physiological conditions on bioavailability of drugs, physiological transport mechanisms, biotransformation elimination, distribution, bioavailability, drug interactions.

Biopharmaceutics II: Basic pharmacokinetics.

Physical Pharmacy II: Solubility, diffusion, distribution, dissolution kinetics, electrolyte solutions, non-electrolyte solutions, colloidal dispersions, powders.

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Controlled Release Systems I: Description, the concept of controlled release systems, chemically controlled systems, solvent activated systems, diffusion controlled systems. Polymers, funcamentals of diffusion.

Experimental Design in Pharmaceutical Technology: Designing an experimere, errors, precision, sensitivity, methods of data collection, factorial designs, curve fitting, special designs, computer applications in optimization.

Physical Pharmacy I: Physical properties and structure of matter, atomic and molecular bonds and methods related, interfacial, phenomena and related methods, rheology.

Dissolution and Bioavailability: Descriptions, methods, apparatus, bioavailability problems related to dissolution, in vitro and in vivo examples, bioequivalency, in vitro-invivo correlation.

Controlled Release Systems II: Controlled-release based on the route of application, and systems based on release mechanisms.

Stability: Stability testing of liquid and solid dosage forms, and regulatory aspects of stability.

Selected Topics in Physical Pharmacy: Interfacial phenomena, the concept of viscosity, dissolution.

Pharmaceutical Biotechnology: Description, analytical methods, production methods in biosechnology, proteins, vaccines, monoclonial antibodies, formulation of proteins and peptides.

Hospital Pharmacy: Organisation and distribution systems, files, preparation of total parenteral solutions and radiopharmaceuticals, personnel education.

Ph.D. PROGRAM IN PHARMACEUTICAL TECHNOLOGY

First Semester	Second Semester
Preformulation I	Preformulation II
Drug Delivery to the GI System I	Drug Delivery to the GI System II
Targeted Drug Delivery I	Targeted Drug Delivery II
Specialized Topics I	Specialized Topics II
Mathematical Modelling	Validation

COURSE DESCRIPTIONS

Preformulation I: Introduction, solubility, pKa from solubility data, salts, solvents, partition coefficient, drug design, dissolution, melting point, polymorphism, purity, drug stability.

Preformulation II: Microscopy, crystal morphology, particle size analysis, powder flow properties, compression properties, excipients and compatibility.

Drug Delivery to the GI System I: No-invasive methods for measuring GI transit, role of oesophageal transit in relation to drug delivery, GI structure and function on peroral transit of drug particles, small intestine transit, colonic transit, enteric coatings and delayed release.

Drug Delivery to the GI System II: Osmotic pumps, neutron activation methods for evaluation of pharmaceutical dosage forms, drug delivery to oral mucosa, drug absorption from the human colon, relationship between pharmacokinetics and GI transit.

Targeted Drug Delivery I: Principles of targeting, opportunities and challenges for targeting, transport and passage of molecules across capillary endothelium, endocytosis, blood-brain barrier and brain targeting of drugs, targeting strategies, models of targeting (active an passive targeting), active targeting moieties, monoclonal antibody production.

Targeted Drug Delivery II: Colloidal carriers for controlled drug delivery and targeting, in vivo behaviour of carriers, liposomes for drug targeting, polymeric particles for drug targeting, fat emulsions for targeting.

Specialized Topics I: An overview of pharmaceutical dispersed systems, specialized pharmaceutical emulsions, microemulsions and liquid crystaline systems, fundamental properties of ointments, ophthalmic ointments and gels, literature survey.

Specialized Topics II: Buccal and transmucosal tablets, sublingual tablets, implants, lozenges, chewable tablets, soft gelatin capsules, specialized large volume parenteral solutions (Hyperalimentation solutions, peritoneal dialysis solutions, irrigating solutions), osmotic pressure measurements, literature survey.

Validation: Description, regulatory consicerations regarding validation, organizing for validation, prospective and retrospective validation, process validation.

Mathematical Modelling: Statistical modeling, multiple regression, artificial neural network, constrained and nonconstrained optimization.

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COSMETOLOGY

Head of Program: Assoc. Prof. Dr. Murat TÜRKOĞLU,

MASTER'S PROGRAM IN COSMETICS

First Semester	Second Semester
Formulation Design of Cosmetics I	Formulation Design of Cosmetics II
Stability of Cosmetic Formulations	Industrial Manufacturing of Cosmetics
Basic Microbiology in Cosmetics	Analytical Methods in Pharmaceutical Technology
Experimental Design in Pharmaceutical Technology	

COURSE DESCRIPTIONS

Formulation Design of Cosmetics I: Skin and its structure, creams, lotions Anti-perspirants, Shaving formulations, Color Cosmetics.

Formulation Design of Cosmetics II: Hair and its structure, shampoos, hair dyes Sunscreens, photobiology, toothpastes and oral health.

Stability of Cosmetic Formulations: Factors affecting stability of cosmetics, stability tests, stability of cosmetic solutions, emulsions, lotions creams, powders, aerosols, stability of dyes, perfumes.

Basic Microbiology in Cosmetics: Introduction to microbiology, skin and microorganisms, microbiological quality control of cosmetics, cosmetic preservatives.

Industrial Manufacturing of Cosmetics: Cosmetic raw materials, unit operations, emulsion technology, cosmetic-pharmaceutical quality water production, material science, GMP in cosmetics.

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PHARMACEUTICAL TOXICOLOGY

Head of Program: Prof. Dr. F. Ömer ERSOY

The aim of pharmaceutical toxicology program is to provide educated and trained toxicologists, in the field of the investigation and evaluation of toxic effects of chemicals and pharmaceuticals.

Language of Instruction: Turkish

MASTER'S PROGRAM IN PHARMACEUTICAL TOXICOLOGY

First Semester

Toxicological Analysis I
Advanced Toxicology
Systemic Toxicology I

Second Semester

Toxicological Analysis II
Poisoning, First Aid and Antidotes
Systemic Toxicology II
Nutritional Toxicology

Ph.D. PROGRAM IN PHARMACEUTICAL TOXICOLOGY

First Semester

Clinical Toxicology
Toxicity Testing

Third Semester

Xenobiotic Metabolism
Forensic Toxicology
Toxicology of Natural Substances

Second Semester

Industrial Toxicology
Environmental Toxicology
Chemical Carcinogenesis
Mutagenesis and teratogenesis

COURSE DESCRIPTIONS

Advanced Toxicology: Lectures on toxicokinetics and toxicodynamics.

Toxicological Analyses I-II: Knowledge in analytical methods for isolation and determination of toxic substances are given.

Poisoning, First Aid and Antidotes: Cases of poisoning, epidemiology and statistics, first aid measures and knowledge about antidotes.

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Nutritional Toxicology: Toxic properties of food additives and contaminants, their analysis and limitations.

Clinical Toxicology: Signs, symptoms and treatment measures in acute and chronic intoxications with various toxic substances.

Industrial Toxicology: Acute and chronic toxicity and permissible levels of chemical substances used in industry.

Forensic Toxicology: Obtaining suitable specimens, techniques for the isolation, determination and estimation of toxic substances in these specimens, interpretations of the analytical findings in lethal, accidental and suicidal poisonings.

Environmental Toxicology: Toxic effects of heavy metals, pesticides and other air and water pollutants on human health and ecosystems.

Systemic Toxicology I-II: Knowledge of toxic effects on different body systems.

Chemical Carcinogenesis, Mutagenesis and Teratogenesis: The mechanisms of chemical carcinogenesis, mutagenesis and teratogenesis.

Toxicity Testing: The procedures of the toxicological evaluation of chemical substances including short and long term toxicity studies.

Toxicology of Natural Substances: Knowledge of toxic substances of plant and animal origin.

Xenobiotic Metabolism: In-vitro and in-vivo studies in order to achieve metabolic information about xenobiotics, isolation and identification of metabolites.

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PHARMACOGNOSY

Head of Program: Assoc. Prof. Dr. Elçin GÜRKAN

Macroscopic, microscopic and chemical research of medicinal plants. The program offers MS and Ph.D. degrees in Pharmacognosy.

Language of Instruction: Turkish

MS and Ph.D. PROGRAMS IN PHARMACOGNOSY

First Semester	Second Semester
Active Substances of Plant Drugs	Advanced Radiobiology
Radiobiology	Application of Modern Methods in the Analysis of Plant Material
Plant Identification I	Flora and Vegetation of Turkey
Plant Taxonomy and its Basic Principles	Scientific and Academic Basic Principles and Rules

COURSE DESCRIPTIONS

Active Substances of Plant Drugs: Isolation of active substances. Organic acids, mucilage, cardio-active glycosides, anthraquinones, saponins, coumarins, tannins, volatile oils, alkaloids, terpenes, fixed oils, iridoids.

Radiobiology: The various biological effects of radiation on the cell.

Scientific and Academic Basic Principles and Rules: Science, University Scientific research and studies. Academic principles.

Advanced Radiobiology: In-vivo effects of radiation. Radiation hazards and safety rules. Nuclear research centers, their use and misuse. Methods of sterilization using radiation. Radiotracer methodology.

Plant Taxonomy and its Basic Principles: Principles of plant taxonomy. Taxonomical categories. Taxonomic data. Botanical nomenclature. Herbarium. Botanic garden.

Flora and Vegetation of Turkey: Flora of Turkey. Floristic elements. Distribution of plants. Forests, maquis, phyrygana. Steppic, aquatic and coastal plants. Turkish mountain flora and vegetation.

Application of Modern Methods in the Analysis of Plant Material: Various modern methods like CC, PC, TLC, HPLC, Crystallization, extraction UV, IR, NMR, and Mass and their application to various substances like alkaloids, glycosides, flavanoids, anthraquinones, coumarins, etc.

MARMARA ÜNİVERSİTESİ

PHYSICAL EDUCATION

SPORTS MANAGEMENT

Head of Program: Prof. Bilge AYKURT, M.D.

Language of Instruction: Turkish

MASTER'S PROGRAM IN SPORTS MANAGEMENT

First Semester	Second Semester
Statistics in Sports Management	Sports Marketing
Recreation	Sports and Ecology
Public Relations in Sports	Sports and Art
Sports Management	Organization Theories in Sports
Orientation Techniques in Sports	Sports Organization II
Sports Ethics	Special Topics in Sports Law II
Social Group Analyses in Sports	Special Topics in Sports Psychology II
Sports Organization I	Special Topics in Sports Sociology II
Special Topics in Sports Law I	Ergonomics in Sports
Special Topics in Sports Psychology I	Research Methods in Sports
Research Methods in Sports	

Ph.D. PROGRAM IN SPORTS MANAGEMENT

First Semester	Second Semester
Current Problems of Sports Management	Current Problems in Sports Law
Sports Financing	Qualifications of Sports Managers
Trends in Recreation	
Olympism and Organization of Olympic Games I	Olympism and Organisation of Olympic Games II
Social Development and Sport	Health Organization in Sports
Psychological Training in Sports	Communication in Sports
Preventive Psychological Health in Sports	Researches and Tests in Sports Psychology
Social Security in Sports	Leadership Theories in Sports

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COURSE DESCRIPTIONS

Statistics in Sports Management: Teaches Methods of collecting data from the activities of sports clubs, societies, and from various sports events in order to obtain a statistical analysis.

Recreation: Looks at the impact and importance of sports in recreational activities.

Public Relations in Sports: Details the impact of the media on the development of sports activities.

Sports Management: Evaluates methods of effective managing of sports clubs/societies and analyses theories in connection with the privatization of public facilities.

Orientation Techniques in Sports: Discusses the methods of getting successful and enligted in sports.

Sports Ethics: Discusses the importance of moral values in sports competition and how ethical problems in sports could be resolved.

Social Group Analyses in Sports: Analyses the socio-psychological variables of social groups participating in sports activities.

Sports Organization I-II: Teaches the organization schema and management of public and private sports societies in Turkey.

Special Topics in Sports Law I-II: Teaches the basic principles of law and its relation to sports. Discusses actual problems in sports law.

Special Topics in Sports Psychology I-II: Discusses and analyses actual problems in sports psychology.

Special Topics in Sports Sociology I-II: Discusses and analyses actual problems in sports sociology.

Research Methods in Sports: Applies research methods to sports and considers principles of publication.

Sports Marketing: Discusses various influences on market forces governing the trade of sports articles and activities.

Sports and Ecology: Discusses the reciprocal relationship between sports and public awareness of environmental problems.

Sports and Art: Looks at the relationship between sports and art. Presents famous sportsmen who are also creative artists.

Organization Theories in Sports: Discusses the methods and theories in the context of organization of sports activities.

Ergonomics in Sports: Looks at methods and theories in order to obtain the most healthy and productive outcome in sports activities.

Current Problems of Sports Management: Looks at current problems of sports organizations and their management and solution methods.

Sports Financing: Discusses the management of resources and the ways of finding new funds for the organizations in addition to sponsorship in sports.

Trends in Recreation: Looks at the types of recreational activities and reasons behind their development in past and present societies.

Olympism and Organization of Olympic Games I-II: Discusses the history and philosophy of Olympic Games; the activities and preparations for the Organization of Olympic Games in Turkey, and the precautions that should be taken on management and infrastructural aspects.

Social Development and Sports: Discusses the developments in sports understanding and applications according to the cultural and economical changes.

Psychological Training in Sports: Discusses the techniques aiming to direct systematically the psychological performance which effects sports performance.

Preventive Psychological Health in Sports: Evaluates the positive effects of sports activities in prevention and development of psychological health.

Social Security in Sports: Discusses the acceptance of athletes to private or general health insurance as well as social insurance.

Current Problems of Sports Law: Discusses current law problems in sports organisations and management with the suggestions for solutions.

Qualifications of Sports Managers: Discusses the education and qualifications of sports managers and precautions in development of their specifications.

Health Organizations in Sports: Discusses the considerations on the role and responsibilities of managers, trainers and referees in health organizations; looks at health organizations during training and local, regional, national and international competitions.

Communication in Sports: Discusses the role of the media in popularity of sports and the importance of introduction of new sports to the society.

Researches and Tests in Sports Psychology: Discusses research tools and tests in literature of sports psychology and evaluates the significance of these tests in Turkey.

Leadership Theories in Sports: The course introduces of the leadership theories and theories for the role of the team captain.

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SPORTS AND SPORTS HEALTH SCIENCES

Head of Program: Prof. Bilge AYKURT, M.D.

The Department of Physical Education and Sports offers Masters and Ph.D. programs in the areas of Sports, Sports and Health and Sports Management.

MASTER'S PROGRAM IN SPORTS AND SPORTS HEALTH SCIENCES

First Semester	Second Semester
Sports Rehabilitation I	Sports Rehabilitation II
Development of Movement in Basic Education	Nutrition in Sports
Biochemistry I	Biochemistry II
Special Training Techniques in Sports	Sports Psychology
Kinesiology I	Kinesiology II
Research Techniques I	Research Techniques II
Kinantropometry I	Kinantropometry II
Exercise Physiology I	Exercise Physiology II
Motor Learning I	Motor Learning II
Sports Medicine and Health Organizations for Sportsmen I	Sports Medicine and Health Organizations for Sportsmen II
Use of Medicine and Doping in Sports I	Use of Medicine and Doping in Sports II
Teaching Knowledge in Sports	Teaching Techniques in Sports
Anatomy	

Ph.D. PROGRAM IN SPORTS AND SPORTS HEALTH SCIENCES

First Semester

Sports Rehabilitation I
Spots Medicine and Health Organizations For Sportsmen I
Regional Sports Injuries I
Special Physiology I
Sports in People with Health Conditions I
Use of Medications and Doping in Sports I
Test and Measurements in Sports I
Learning Skills in Sports I
Biomechanics of Sports I
Kinesiology I

Second Semester

Sports Rehabilitation II
Sports Medicine and Health Organizations For Sportsmen II
Regional Sports Injuries II
Special Physiology II
Sports in People with Health Conditions II
Use of Medications and Doping in Sports II
Test and Measurements in Sports II
Learning Skills in Sports II
Biomechanics of Sports II
Kinesiology II
Child and Sport

COURSE DESCRIPTIONS

Sports Rehabilitation I-II: Defines rehabilitation and discusses the purpose and methods of rehabilitation as well as looking at causes of sports injuries, signs and symptoms of injury and prevention from injuries. It also covers treatment procedures until the injured athlete reaches a physician and techniques of rehabilitation following treatment in order to quickly return to competitive play.

Development of Movement in Basic Education I-II: This course follows the development of movement in children from the most basic to the most complex level and tries to apply this knowledge to teaching and improving sports performance in children.

Biochemistry I-II: Discusses the biochemical reactions and changes that occur in the body as a result of exercise.

Special Training Techniques in Sports: Teaches the physiologic theories of training, training principles, development of motor capabilities and shows the application and testing of theories on training of children.

Kinesiology I-II: Encompasses principles of joint mechanics, functional makeup and forces acting on the joints.

Research Techniques I-II: Research planning, application, gathering of information, analysis and preparation of a final report are considered.

Kinantropometry I-II: Evaluates body composition, proportional relationship of body parts and the relationship between sports branches and physical characteristics of the body.

Exercise Physiology I-II: Muscle types and contraction characteristics, energy metabolism, relationship between muscular, cardiovascular and endocrine systems during exercise and nerve-muscle control are subjects that are thought.

Motor Learning I-II: Motor learning theories, basic information, measurement of learning, short and long term motor memory, and theories on remembering and forgetting are discussed.

Sports Medicine and Health Organizations for Sportsmen I-II: Teaches effects of sports on the body according to age, sex, and environmental factors as well as the responsibility of managers and trainers in health organizations and teaching of use of protective gear in sports.

Use of Medications and Doping in Sports I-II: Considers different doping substances used by athletes, their effects and side-effects and the types of risk factors that they create for the athlete.

Teaching Knowledge in Sports: The questions of what, when, how much and to whom sports teaching should be done are questions that are considered.

Anatomy: Muscular, skeletal, cardiovascular, respiratory and nervous systems are considered.

Nutrition in Sports: Nutritional needs of an athlete before and after competition and the relationship between nutrition and muscular performance are detailed.

Sports Psychology: Psychological factors that are important in sports performance and the use of these factors by athletes are discussed.

Teaching Techniques in Sports: The basics of teaching techniques especially in teaching sports and alternative teaching methods are discussed.

COURSE DESCRIPTIONS

Sports Rehabilitation I-II: Defines rehabilitation and discusses the purpose and methods of rehabilitation as well as looking at causes of sports injuries, signs and symptoms of injury and prevention from injuries. It also covers treatment procedures until the injured athlete reaches a physician and techniques of rehabilitation following treatment in order to quickly return to competitive play.

Sports Medicine and Health Orgnazitaons For Sportsmen I-II: Teaches effects of sports on body according to age, sex and environmental factors as well as the response of managers and trainers in health organizations and teaching of use of protective gear in sports.

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Regional Sports Injuries I-II: Looks at often seen sports injuries and first aid that should be given by athletes and trainers from the perspective of regional anatomy.

Special Physiology I-II: Discusses the anatomy and physiology of the renal and digestive systems in addition to muscle and nervous systems as well as the changes that occur with exercise in these systems.

Sports in People with Health Conditions I-II: Teaches the important illnesses in internal medicine such as diabetes, hypertension and hearth failure and changes that result from exercise in people with these illnesses. Discusses the conditions under which these people can join sports activities.

Use of Medicine and Doping in Sports I-II: Considers different doping substances used by athletes, their effects and side-effects and the types of risk factors that they create for the athlete.

7. INSTITUTE OF MIDDLE EASTERN AND ISLAMIC COUNTRIES

Director : Prof. Dr. Ahmet TABAKOĞLU
Assistant Directors : Prof. Dr. Ömer DİNÇER
Assoc. Prof. Dr. Mustafa AYKAÇ

Language of Instruction: Turkish

The Institute of Middle Eastern and Islamic Countries, founded in 1992, aims organizing educational programs to improve the relations of Turkey with Middle East and Islamic countries in this changing world. For this purpose the Institute develops research projects and aims

- to organize educational programs in post-graduate level as Master and Ph.D;
- to collect; accumulate and communicate the information about Middle Eastern and islamic countries;
- to provide feasible projects for public and private institutions making comparisons and analysis among the cited countries;

- to implement some common projects with participation of Middle Eastern and Islamic countries about education and research and to organize symposiums for this purpose;
- to provide theoretical-practical solutions for the problems which will be determined by the Institute among Middle Eastern and Islamic countries.

Subjects of Education:

a) Economics of Middle Eastern and Islamic countries;
b) Geography Demography of Middle Eastern and Islamic countries;
c) Law Systems in Middle Eastern and Islamic countries;
d) Political History and International Relations of Middle Eastern and Islamic Countries;
e) Sociology and Anthropology of Middle Eastern and Islamic countries;

The above five basic subjects will be studied in post-graduate level.

There are five alternative areas for those who will study on Middle Eastern and Islamic countries;

a) Balkans and Middle East;
b) Caucasia and Turkistan;
c) South and South-East Asia;
d) North Africa;
e) Muslim minorities in the world.

MASTER'S PROGRAM IN ECONOMICS OF MIDDLE EASTERN AND ISLAMIC COUNTRIES

First Semester	Second Semester
Scientific Research Methods	Economical Integration Movement and Middle East
Economic Relations of Turkey with the Turkish World	Human Resources of Islamic Countries
Ottoman Economical System	Foreign Trade Structures of Islamic Countries
Economical Doctrines	Economical Institutions of the Islamic World
Economical Structures of Asian Muslims	
Economical Analysis I	Economical Analysis II
Geography of Islamic Countries I	Geography of Islamic Countries II
	Economical Structures of Muslim and Middle Eastern Countries

MARMARA ÜNİVERSİTESİ YAYINEVİ

Ph.D. PROGRAM IN ECONOMICS OF MIDDLE EASTERN AND ISLAMIC COUNTRIES

First Semester	Second Semester
Economic Systems	Development Problems of the Islamic Countries
Economic History of the Middle Eastern Countries	Financial Markets in Middle East and Islamic Countries
Economic Cooperation of Middle Eastern Countries	Physical Sources of Middle East and Islamic Countries
Turkish Republics and their Economic Relations with Turkey I	Turkish Republics and Their Economic Relations with Turkey II
Islamic Economics I	Islamic Economics II
History of Islamic Economic Doctrines I	History of Islamic Economic Doctrines II

MASTER'S PROGRAM IN GEOGRAPHY AND DEMOGRAPHY OF MIDDLE EASTERN AND ISLAMIC COUNTRIES

First Semester	Second Semester
Research Methods in Modern Geography	Historical Geography of Ottoman State
Middle Asian Countries	Physical Geography of Islamic Countries
Demography	Economic Geography of Islamic Countries
Statistics	Human Geography of Islamic Countries
Contemporary Islamic Countries I	Contemporary Islamic Countries II
Research Methods & Techniques in Social Sciences	Human Resources of Islamic Countries
Physical Geography of Africa	Geo-politics

MASTER'S PROGRAM IN LAW SYSTEMS IN MIDDLE EASTERN AND ISLAMIC COUNTRIES

First Semester	Second Semester
Scientific Research Methods	Paleography and Diplomatics
Introduction to Islamic Law I	Introduction to Islamic Law II
Personal and Family Law in Islamic Countries I	Personal and Family Law in Islamic Countries II
Islamic Financial Law I	Islamic Financial Law II
Comparative Law I	Comparative Law II
Codification Movements in Islamic Countries I	Codification Movements in Islamic Countries II
History and Geography of Islamic Countries I	History and Geography of Islamic Countries II
	Maritime Law Practices in Islamic Countries

MASTER'S PROGRAM IN POLITICAL HISTORY AND INTERNATIONAL RELATIONS OF MIDDLE EASTERN AND ISLAMIC COUNTRIES

First Semester

Scientific Research Methods
Political Structures of Middle Eastern and Islamic Countries
Political History
Maritime Law Practices in Middle Eastern and Islamic Countries
Introduction to Political Science

Second Semester

Water Problem in Middle Eastern and Islamic Countries
History of Doctrines in Islamic Countries
Paleography and Diplomatics
Political Structures of Middle Eastern and Islamic Countries
Political Integration in Islamic Countries
Development of Turkish Political Life
Ottoman Political System
Demographic Structure and Migration in the Middle Eastern and Islamic Countries

MASTER'S PROGRAM IN SOCIOLOGY AND ANTHROPOLOGY OF MIDDLE EASTERN AND ISLAMIC COUNTRIES

First Semester

Paleography and Diplomatics
Research Methods & Techniques in Social Sciences Statistics
Theories of Sociology
Turkish-Islamic Culture and Civilization
Basics of Sociology
Demographic Structures in Middle Eastern and Islamic Countries
Comperative History of Religions

Second Semester

Social Structure and Social Transformation
Politics & Society in Islamic Thought
Problems of Turkish Sociology
Seminar on Sociologic Studies
Modernization in Islamic Society
Sociology of Religion
Anthropology
Introduction to Islamic Economics

COURSE DESCRIPTIONS

Islamic Economics: The aim of the course is to scrutinize the principles of Islam, which are related to economic activities of people, i.e. muslims and to outline the framework of Islamic economics. The economic principles in Quran, Sunnah, their interpretions according to the economics science of the ideals of the labor, capital and good markets in the Islamic economics are discussed in the lectures.

Paleography and Diplomatics: The aim of the course is to teach the researchers the language of the Ottoman Empire which dominated the Middle East and represented the Islamic world for a long time.

Research Methods & Techniques in Social Sciences: The methods and techniques for making a scientific research and for writing scientific books and articles are taught in this course.

Demographic Structures in Middle Eastern and Islamic Countries: The aim of this course is to determine the different and complicated demographic structures of the Middle Eastern countries.

Comparative History of Religions: Religions are very important in determining the basic characteristics of the society. Middle East is the cradle of the religions. The aim of the course is to study the history of these religions and to help to understand the sociology of these countries better.

Statistics: This is a very important requirement for sociologists and anthropologists and also for those studying geography.

Theories of Sociology: The course aims to apply the theories of sociology to Middle Eastern and Islamic countries.

Turkish-Islamic Culture and Civilization: The basic characteristics of this culture and civilization will be scrutinized.

Basics of Sociology: The basics of sociology and further information are given.

Social Structure and Transformation: Social structures of the Middle Eastern and Islamic Conutries and social transformation which is quite prevalent will be studied.

Politics & Society in Islamic Thought: It is aimed at exploring the sociologic and political viewpoint of Islam.

Introduction to Islamic Economics: The interrelation of economics and sociology and determination of the economic realities of Islam.

Problems of Turkish Sociology: The sociologic problems of Turkey are studied.

Seminar on Sociologic Studies: The aim is to prepare the students to make sociologic studies.

Modernization in Islamic Society: Modernization in Islamic societies and the problems in transformation are studied.

Sociology of Religion: Examining the religious life through objective, methodical and typological ways. Studying the religion from sociological point of view.

Research Methods in Modern Geography: To teach the students the methods which will guide them in their researchs is planned.

Historical Geography of Ottoman State: Ottoman State represents a very important era for the region. The aim at the course is to determine geographic characteristics of the era.

Middle Asian Countries: It is planned to study the geographic characteristics of the Middle Asian countries, which are brand new states and subjects for geography.

Physical Geography of Islamic Countries: To determine the physical geographic characteristics of Islamic countries.

Demography: The aim of this course is to determine the different and complicated demographic structures of the Islamic countries.

Economic Geography of Islamic Countries: Economic geography is the subject of the course.

Human Geography of Islamic Countries: Human geography is the subject of the course.

Contemporary Islamic Countries: To know the contemporary Islamic countries and to determine the common characteristics of them.

Human Resources of Islamic Countries: The aim of this course is to determine the basic characteristics of human resources in Islamic countries.

Physical Geography of Africa: The aim of this course is to determine the physical geographic characteristics of African countries.

Geo-politics: Islamic world is in a very important situation because of its geographic position. The aim of the course is to determine the geo-politic importance of it.

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8. INSTITUTE OF NEUROLOGICAL SCIENCES

Director : Prof. M. Necmettin PAMİR, M.D.
Assistant Directors : Prof. Aydın SAV, M.D.
Assoc. Prof. M. Memet ÖZEK, M.D.

Language of Instruction: Turkish

The Institute of Neurological Sciences of Marmara University was founded in 1992. The Institute is in the Başıbüyük-Maltepe district of Istanbul.

The management of the Institute is organized by an executive committee of seven members. The main task of the Institute is to diagnose and treat neurological disorders and carry out experimental and post graduate studies on neurological sciences.

The Institute of Neurological Sciences has laboratories of biochemistry, neuropathology, electromyography, evoked potentials, electroencephalography and trans-cranial dopper. The Units of Neurology, Neurosurgery, Physical Therapy provide medical services in outpatient and inpatient departments with a capacity of 50 beds.

Medical staff consists of 3 neurosurgeons, 2 neurologists, 1 pathologist, 1 radiologist, 1 anesthetist and 1 psychiatrist. Some specific services are also provided on epilepsy surgery, spinal cord surgery, stereotaxic surgery, pathology of peripheral nerves and muscles.

Ph.D. PROGRAM IN MICRONEUROSURGERY

First Semester	Second Semester
Advanced Neuroanatomy I	Advanced Neuroanatomy II
Microneurovascularanatomy I	Microneurovascularanatomy II
Clinical Microneurosurgery I	Clinical Microneurosurgery II
Microneurosurgery Lab. I	Microneurosurgery Lab II
Clinical Microneurosurgery I	Clinical Neurosurgery II

COURSE DESCRIPTIONS

Advanced Neuroanatomy: This course supplies the participant the necessary information of detailed neuroanatomy which would be used in the experimental research and clinical neurosurgery and neurology.

Microneurovascular Anatomy: Deals with the neuroanatomy of the microsurgical field. In the end of the course, participant would get familiar with the microanatomy of the important surgical approaches.

Clinical Microneurosurgery: Provides the cognitive skill of using the information of microneurovascular anatomy in the clinical setting.

Microsurgery Lab.: Course provides the practical skill on handling the experimental animal and teaches the essential experimental anatomy. In the end, the participant is expected to manage succesfully the stages of arteriotomy, vascular anastomosis, neural anastomosis etc.

Clinical Neurosurgery: Course gives the essential theoretical information and practical skills on patient management in the neurosurgical ward.

MASTER'S PROGRAM IN NEUROHISTOCHEMISTRY

First Semester	Second Semester
Basic Histology I	Basic Histology II
Basic Cytopathology I	Basic Cytopathology II
Histochemistry I	Histochemistry II
Neuropathology I	Neuropathology II

MASTER'S PROGRAM IN ELECTRODIAGNOSTIC NEUROLOGY

Electrodiagnostic Neurology I	Electrodiagnostic Neurology II
Neuropathology I	Neuropathology II
Pediatric Neurology I	Pediatric Neurology II

9. INSTITUTE OF SOCIAL SCIENCES

Director : Prof. Dr. Orhan SEZGİN
Assistant Director : Assist. Prof. Esin Can MUTLU

The Institute of Social Sciences is the largest institute offering postgraduate programs at Marmara University. The Institute gives MA and Ph.D. Degrees in a multitude of disciplines that can be broadly defined as fields in the Social Sciences.

The Institute was first established in 1982. Presently, it functions with close co-operation with departments in five faculties: the Atatürk Faculty of Education, the Faculty of Communication, the Faculty of Divinity, Faculty of Economic and Administrative Sciences, and the Faculty of Law.

Languages of Instruction. The main language of instruction for the majority of programs is **Turkish**. However, there are five graduate programs in **English**, one program in **French**, and one in **German**.

ARTS and SCIENCES

Director: Prof. Dr. Mustafa Çetin VARLIK

ANCIENT HISTORY

Head of Program: Prof. Dr. Bülent İPLİKÇİOĞLU

The program, in activity since 1992 in Master's and 1995 in Ph.D. levels, includes lectures, seminars and studies encompassing the era from the oldest times of the Mediterranean cultural surroundings and their vicinity (i.e. the end of the fourth millennium B.C.) to the crossing phase from the Antiquity to the Middle Ages (i.e. 3.-6. centuries A.D.).

The lectures are given corresponding to the cultures formed in this era, in two groups: In the first group, which is older and generally called the "Ancient East", the history of ancient Near East and Egypt as well as the history of the ancient Persian Empire, which finally united all this "Ancient Eastern" lands under the same political authority are presented. The second group generally named as the "Ancient West", covers the era, beginning with the Old Aegean and Greek histories, the Hellenistic age of Alexander the Great, the history of Old Italy and Rome and comes to a close with the fall of the political unity that Rome had established in the Mediterranean world.

The topics of the studies being carried out within this program cover the Antiquity in Turkey that has experienced all of the phases of the Ancient Eastern and Western histories and gathered nearly all of the cultural produces of the Eastern and Western worlds in its structure.

The aim of the program is to help remove the quantitative and qualitative inequalities between Turkish and foreign research workers in the field of Ancient Studies by educating new scholars in this area on the one hand, and reflecting the "total and collective consciousness of history" on the way of thinking of the Turkish society on the other hand.

In order to perform satisfactory studies within this program, it is indispensable to master ancient languages (especially Old Greek and Latin) and, at least, two modern languages (preferably English and German). Old Greek and Latin are taught within the duration of the program. The approximate time for the MA thesis is two years and 4-5 years for the Ph.D dissertation.

Language of Instruction: Turkish

MARMARA ÜNİVERSİTESİ YA

COMMUNICATION

Director: Prof. Dr. Ateş VURAN

JOURNALISM

Head of Program: Prof. Dr. Ateş VURAN

The MA and Ph.D. Programs in Journalism are programs implemented by the Department of Journalism, in The Faculty of Communications. The Department of Journalism is designed to organize MA and Ph.D. programs on Journalism and related subjects. This department aims to graduate high skilled communicators who are able to anlyze and explain the complex events of our times, and who are able to combine this ability with journalistic skills. Altough the main emphasis of the Journalism courses is on written press and journalism, they are designed to give an overal view of communication problems/sector/business in general, from the point of view of their economic, social, legal and political aspects.

The **MA** degree necessitates the completion of a teaching program of two semesters comprised of 22 hours (11 courses of two horus, in two semesters) followed by a written dissertation in maximum 4 semesters; and approved by the assigned advisor and defended successfully in front of an assigned jury.

Language of Instruction: Turkish

MASTER'S PROGRAM IN JOURNALISM

First Semester

Some Concepts and Institutions of the American Press
The Sociological Foundations of Democracy
Journalism and Social Psychology
The New Communication Environment in the Globalization Era
Some Concepts and Institutions of Political Science

Second Semester

Contemporary Communication Technology in Theory and Practice
Media and Democracy
Methodological Approach to the Behavioral Sciences
Media Evaluation and Critics about Contemporary Political Developments
Some Concepts Concerning the Problems of the Mass Communication Law in Turkey
Local Journalism and its Problems

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Ph.D. PROGRAM IN JOURNALISM

First Semester

Extreme Movements and Problems in the Democratization Process in Turkey
The Turkish Press in the Turkish War of Independence
Media Crimes and Law
Media-Culture and Society Relations
Sales Policies in the Turkish Press
International Media Organizations

Second Semester

Responsibility and Self-Regulation in the Media
Media Cartels in the Globalization Era
Contemporary Socio-Economic Problems from the Point of View of the Media Communicator
Product Differentation in Media
Social Change and Media Strategies
Terrorism and Media
Human Rights

COURSE DESCRIPTIONS

Some Concepts and Institutions of the American Press: The historical development of the American Press with its social, political, technological and legal aspects; and some problematic issues of the contemporary American media.

The Sociological Foundations of Democracy: The theory and practice of democracy and democratic institutions in their historical progress, starting from the Ancient Greece, through the Western World, some developing countries and in Turkey.

Journalism and Social Psychology: Theories of communication in psychology; and psychological aspects of mass communication theories and practice.

The New Communication Environment in the Globalization Era: The "new world order" and the role and impact of the media on it.

Some Basic Concepts and Institutions of the Political Science: Concepts and theories of political science and its position in social sciences, in a comparative point of view, on a country to country basis.

Contemporary Communication Technology in Theory and Practice: Contemporary radio and television technology, and the legal regulations in the world connected with the advancement of the technology.

Media and Democracy: The functions and pitfalls of the mass media in democracies; and media-government relations.

Methodological Approach to Behavioral Sciences: Different concepts and theories of behavior, with a special emphasis on performance motivation.

Media Evaluation and Critics about Contemporary Political Developments: An analysis of media approach to the contemporary political issues, through some case studies.

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Some Concepts Concerning the Problems of the Mass Communication Law in Turkey: Legal regulations and deficiencies concerning the mass media (especially the press, radio and television) in Turkey.

Local Journalism and its Problems: The problems of local journalism in Turkey, in comparision with the European countries and the USA.

COURSE DESCRIPTIONS

Extreme Movements and Problems in the Democratization Process in Turkey: The fundamentals of the Turkish democratic life and institutions, and the underground illegal opposition groups from the left and right wings, working against the regime.

The Turkish Press in the Turkish War of Independence: The contribution of the Turkish press for the War of Independence.

Media Crimes and Law: Examination of various case studies concerning the problems posed by the application of the media laws in Turkey; and different kinds of media crimes including computer crimes.

Media-Culture and Society Relations: The relations between media, culture and society, in the 20th Century societies.

Sales Policies in the Turkish Press: Sales, promotion and management policies and problems in the Turkish press.

International Media Organizations: Recent approaches of the international media to the world issues; and international media organizations, press institutions and news agencies.

Responsibility and Self-Regulation in the Mass Media: Auto-control mechanisms and ethical rules in the mass media.

Media Cartels in the Globalization Era: International media concentration in the era of globalization and its social effects in Turkey.

Contemporary Socio-Economic Problems from the Point of View of the Media Communicator: Economic history of Turkey, and the evaluation of the economic policies executed between 1923 and 1995; also the approach of the mass media towards these policies.

Product Modification in Media: It involves changing product quality, features or style of newspapers, radio-television programs etc. to attract new audiences and media consumers.

Social Change and Media Strategies: Different media policies and strategies caused by social change, in society as well as in organizations.

Terrorism and Media: The approach of the mass media to the issues of terrorism.

Human Rights: Discussion of Human Rights in a historical perspective, including the right to communicate.

MARMARA ÜNİVERSİTESİ 1883

MARMARA ÜNİVERSİTESİ YAYINEVİ

INFORMATION SCIENCES (INFORMATICS)

In the MA and Ph.D. Programs in Information Sciences (Informatics), topics such as computer software and hardware, data base systems, informatics law, research methodology, media technology, desktop publishing etc. are taught, in order to train and educate the students about computer-aided technology and its utilization in mass communications. Although the program is situated in the Journalism Department, it is designed as an interdisciplinary and intersectional program to cover and include all of the subjects contained in all the three departments of the Faculty of Communications.

The **MA** degree necessitates the completion of a teaching program of two semesters comprised of 22 hours (11 courses of two hours, in two semesters) followed by a written dissertation in maximum 4 semesters; and approved by the assigned advisor and defended successfully in front of an assigned jury.

Language of Instruction: Turkish

MASTER'S PROGRAM IN INFORMATION SCIENCES (INFORMATICS)

First Semester	Second Semester
Research Methods	Information Theory
Computer Hardware	Desktop Video
Law of Informatics	Systems Analysis and Design
Desktop Publishing	Software Systems
Communication Tools and Techniques	Computer Networks and Electronic Communication

Ph.D. PROGRAM IN INFORMATION SCIENCES

First Semester

Network Management and Communication Standards
Social Impacts of Informatics
Decision Support Systems
Database Design and Management
Video, Audio and Data Communication Techniques

Second Semester

Management of Informatics Projects
Informatics in Education
Interactive Communication Systems
Hypermedia and Multimedia Systems
Object Oriented Information Systems

COURSE DESCRIPTIONS

Research Methods: In this course, basics of research are given. What to research, how to prepare for research and how to evaluate the results are the main issues.

Computer Hardware: In this course, parts of the computer hardware, their functions, and the way it works with the connected peripherals, are examined.

Law of Informatics: In this course, the legal aspect of the informatics and its integration to other areas are examined.

Desktop Publishing: This course deals with the use of computer systems in publishing. New software and hardware systems used in publishing are reviewed.

Communication Tools and Techniques: Technology of tools used when communicating, is the main subject of this course. The most recent technology in this area is reviewed.

Information Theory: This basic course is about the fundamentals of information. Issues concerning data, communication channels, information and the like, are fully examined.

Desktop Video: This course is about preparing the video systems using computers. The recent technology of desktop video is fully reviewed.

Systems Analysis and Design: In this course, issues of what the system is, determining what needs an organization have, building and designing a system in an organization, and the methods meeting those needs are examined.

Software Systems: In this course, the issues of why software is needed, why software systems differ among computer platforms and efficient use of software systems are examined.

Computer Networks and Electronic Communication: The standards of electronic communication and implementation of them on computer networks is the main subject in this course.

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The Ph.D. degree necessitates the completion of a teaching program of two semesters comprised of 20 hours (10 courses of two hours, in two semesters) followed by a written dissertation in maximum 10 semesters, and approved by the assigned advisor and defended successfully in front of an assigned jury.

Network Management and Communication Standards: This course is concerned about the issues regarding the management of local and worldwide computer networks, the communication standards in using the networks, and the things that every network manager must know.

Social Impacts of Informatics: This course is about the effects of information technologies on the society, human and human relations.

Decision Support Systems: This course deals with the issues concerning the decision making process, its techniques and its implementation, using computer systems in any organization.

Database Design and Management: This course is about how to build functional databases. Steps in designing databases, what to consider in design, and management of databases for every need are examined.

Video, Audio and Data Communication Techniques: This course is about the most recent technology in video, sound and data transfer in computer networks, the standards and implementations are examined.

Management of Informatics Projects: This course is about managing the projects relating the information needs of an organization. The common and different aspects of informatics projects and other types of projects are examined.

Informatics in Education: The effects of information technologies in education, including how students and teachers can utilize computers in education.

Interactive Information Systems: Information systems technologies are now a part of daily life. This course examines the man-information-systems interaction in this respect.

Hypermedia and Multimedia Systems: Hypermedia and multimedia systems are new ways of communication, which combine sound, video and data to prepare documents, films, and the like. This course gives the necessary skills to use hypermedia and multimedia systems.

Object Oriented Information Systems: In this course, the fundamentals of object oriented technology and its use in information systems are examined.

MEDIA ECONOMY AND ADMINISTRATION

MA and Ph.D. Programs in Media Economy and Administration aim to teach the basic concepts concerning media administration, budgeting, marketing, public relations, and behavior, with a view including the sectoral developments in Turkish and world experience.

The **MA** degree necessitates the completion of a teaching program of two semesters comprised of 22 hours (11 courses of two hours in two semesters); followed by a written dissertation in maximum 4 semesters, and approved by the assigned advisor, and defended successfully in front of an assigned jury.

Language of Instruction: Turkish

MASTER'S PROGRAM IN MEDIA ECONOMY AND ADMINISTRATION

First Semester

Principles of Accounting in the Media Sector
Media Management
Data Banks and Technology
Circulation - Return Relations and Sales Estimation Methods
The Situation of the Media Sector in the Turkish Economy

Second Semester

Media Holdings
Cost and Budgeting in Media Organizations
Management and Organization in Media Organizations
Contemporary Communication Technology in Theory and Practice
Basic Concepts of the Mass Communication Law
Management of Advertising and Publicity

MARMARA ÜNİVERSİTESİ YAYINEVİ

Ph.D. PROGRAM IN MEDIA ECONOMY AND ADMINISTRATION

First Semester

Cost and Budgeting in Media Organizations
Sales Planning in Media Organizations
Management of Media Organizations
Financial Aspects of the Media Sector in the Turkish Economy
Data-Base Systems and Technology

Second Semester

Marketing of Printed Material
Financial Problems in the Media Sector
Management of Advertising in the Media sector
Information Systems and Automation in Media Organizations
Organizational Change from the Point of View of Behavioralism
International Media Sector and Turkey

COURSE DESCRIPTIONS

Principles of Accounting in the Media Sector: Basic concepts of accounting in theoretical and practical means and its application in the media sector.

Media Management: Modern management methods in media business, with case studies.

Data Banks and Technology: Data banks from the technological point of view; and data bank utilisation, with examples from the domestic international data banks.

Circulation - Return Relations and Sales Estimation Methods: Methods of circulation planning and management in the press.

The Situation of the Media Sector in the Turkish Economy: The impact of the national economic conjuncture on media sector, and the impact of the mass media on the national economic conjuncture; and the influence of the media sector in the Turkish economy.

Media Holdings: Media sector and concentration in Turkey, in comparision with the global trends.

Cost and Budgeting in Media Organizations: General budgeting techniques in theoretical and practical terms; and its application in the media sector and organizations.

Management and Organization in Media Business: Management and organization methods and problems in media business, with case studies.

Contemporary Communication Technology in Theory and Practice: Contemporary radio and television technology, and the legal regulations in the world connected with the advancement of technology.

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Basic Concepts of the Mass Communication Law: Legal regulations and deficiencies concerning the mass media law in Turkey; with special emphasis on the press, radio and television.

Management of Advertising and Publicity: Management methods in the advertising business and agencies.

The Ph.D. degree necessitates the completion of a teaching program of two semesters comprised of 22 hours (11 courses of two hours in two semesters); followed by a written dissertation in maximum 10 semesters, and approved by the assigned advisor, and defended successfully in front of an assigned jury.

Cost and Budgeting in Media Organizations: Budgeting techniques in media organizations.

Sales Planning in Media Organizations: Circulation and sales planning in media organizations from the point of view of business administration.

Management of Media Organizations: Management problems in media organizations in general and in Turkey.

Financial Aspects of the Media Sector in the Turkish Economoy: Financial problems of the media sector in Turkey; and the state of the media sector in the Turkish economy in general.

Data-Base Systems and Technology: In this course, software and hardware of data bank technology and systems are examined with examples.

Marketing of Printed Material: Marketing methods and problems of printed materials like newspapers, magazines, books etc. are discussed.

Financial Problems in the Media Sector: Financial problems in the media sector and their solutions.

Management of Advertising in Media Sector: Advertising methods and management in the media sector.

Information Systems and Automation in Media Organizations: Informatics sciences and the introduction of computer into the media organizations; with special emphasis on computer-aided design and graphics, information systems, and ergonomics.

Organizational Change from the Point of View of Behavioralism: Relations and communication between organizations; and between labour and employer.

International Media Sector and Turkey: Trends in the international media sector and the placement of the Turkish media in it.

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PUBLIC RELATIONS and ADVERTISING

Head of Program: Prof. Dr. Fuat ÇELEBİOĞLU

ADVERTISING AND PUBLICITY

Advertising, which constitutes a means for public relations, is the main subject matter of the MA Program in Advertising and Publicity whose primary goal is to graduate specialists competent at the analysis and implementation of advertising at the organizational as well as international levels.

The MA degree necessitates the completion of a teaching program of two semesters comprised of 20 hours (10 courses of two hours, in two semesters) followed by a written dissertation in maximum 4 semesters; and approved by the assigned advisor and defended successfully in front of an assigned jury.

Language of Instruction: Turkish

MASTER'S PROGRAM IN ADVERTISING AND PUBLICITY

First Semester

Mass Media and Technology
Behavioral Approach to Mass Communications
Marketing and Promotion
Written and Oral Techniques in Advertising
Communication Law and Ethics

Second Semester

Creative Approach in Press and Television Advertising
Methods of Public Relations and Publicity
Opinion Research Techniques in Advertising
Estimation Methods in Advertising Research
Basic Concepts of Advertising and Media Planning

COURSE DESCRIPTIONS

Mass Media and Technology: A technological approach to mass media and recent developments in media technology.

Behavioral Approach to Mass Communications: Behavioural theories and their validity in mass communications.

Marketing and Promotion: Marketing and promotion theories and methods; and their application in the media sector.

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Written and Oral Techniques in Advertising: The preperation phases and methods of written and oral presentations and messages directed to the target groups.

Communication Law and Ethics: A conceptual discussion concerning mass communications in terms of sociology, law and ethics.

Creative Approach in Press and Television Advertising: Graphical design methods in advertising.

Methods of Public Relations and Publicity: Media selection and utilization; organizing special events; and preparing messages in public relations and publicity.

Opinion Research Techniques in Advertising: Market research techniques in advertising, in theory and practice.

Estimation Methods in Advertising Research: Project planning, selection of samples, and target group evaluation in advertising research.

Basic Concepts of Advertising and Media Planning: Basic concepts and methods of advertising, and media selection methods.

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PUBLIC RELATIONS AND PUBLICITY

MA and Ph.D. Programs in public Relations aim to graduate PR consultants whose main occupation area constitutes the establishing of successfull communication between private and public enterprises and figures with their target publics, as well as managing and/or analyzing the communication process in a wide range of areas including media relations, international public relations, illumination of the publics about contemporary problems, and the internal communication of the organizations.

The **MA** degree necessitates the completion of a teaching program of two semesters comprised of 22 hrs. (11 courses of two hrs., in two semesters) followed by a written dissertation in maximum 4 semesters; and approved by the assigned advisor and defended successfully in front of an assigned jury.

Language of Instruction: Turkish

MASTER'S PROGRAM IN PUBLIC RELATIONS

First Semester

Research Methods
The Press Industry
Public Relations and Sociology
Basic Concepts and Principles of Public Relations
Mass Culture
Turkish Press History

Second Semester

Environmental Problems and Social Consciousness
Public Relations in Transnational Corporations
Public Relations Projects
Cultural Interaction in the International Setting
Legal Aspects of the International Communication
International Public Relations

MARMARA ÜNİVERSİTESİ YAYINEVİ

Ph.D. PROGRAM IN PUBLIC RELATIONS

First Semester

Media Management
Research Scheduling and Sampling
Contemporary Political Developments
Structure and Working of Public Relations Firms
Public Opinion Polls

Second Semester

Data Banks
Sociological Approach to Public Relations
Legal Regulations in Mass Communications
Organizational Change
Publicity Methods and its International Application
Terrorism and Media

COURSE DESCRIPTIONS

Research Methods: Basics of research including what to research, how to prepare for a research and how to evaluate the results; using methodological and statistical techniques.

The Press Industry and Its Problems: The situation of the press industry in Turkey from the point of view of finance, labor, circulation, distribution and technology; and the problems of the press industry in Turkey in comparision with other countries.

Public Relations and Sociology: The Sociological theories concerning the public relations communication.

Basic Concepts and Principles of Public Relations: Fundamentals of Public Relations in conceptual and practical terms.

Mass Culture: Descriptions and theories of mass culture as reflected by distinguished social scientists from the United States and Europe; and some examples from Turkey.

Turkish Press History: A journey through the Turkish press history, starting from the sixteenth century up to date; with a special emphasis on the contemporary Turkish press.

Environmental Problems and Social Consciousness: Environmental problems and interest groups working to publicize and legitimize their point of view in public; and the role of the mass media in it.

Public Relations in Transnational Corporations: Public relations cases as regards some of the prominent transnational corporations.

Public Relations Projects: Project planning and scheduling in public relations campaigns.

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Cultural Interaction in the International Setting: The cultural aspects of the international relations, with an emphasis on publicity.

Legal Aspects of the International Communication: Some aspects of the international law problems concerning mass communications.

International Public Relations: International aspects of the public relations abroad, with examples from different countries and Turkey.

The **Ph.D.** degree necessitates the completion of a teaching program of two semesters comprised of 22 hrs. (11 courses of two hrs., in two semesters) followed by a written dissertation in maximum 10 semesters; and approved by the assigned advisor and defended successfully in front of an assigned jury.

COURSE DESCRIPTIONS

Media Management: Modern management methods and techniques used in the media business, with case studies.

Research Scheduling and Sampling: Planning, scheduling and sampling of research projects and polls.

Contemporary Political Developments: Discussion of contemporary political issues, with case studies.

Structure and Working of Public Relations Firms: Administrative and managerial structures and working systems of public relations firms.

Public Opinion Polls: Polling techniques using statistical methods, with case studies and applications.

Data Banks: The description, working system, purpose of the data banks, and the means and methods for utilizing them.

Sociological Approach to Public Relations: Sociological theories concerning public relations and the related subject areas.

Legal Regulations in Mass Communications: Developments in mass communication law in the world, and the recent regulations in Turkey.

Organizational Change: Organizational change, from the point of view of communication and public relations.

Publicity Methods and its International Application: Publicity methods in general, its applications in the international market, and proposals for a Turkish model.

Terrorism and Media: The approach of the mass media to the issues of terrorism.

RADIO-TELEVISION AND CINEMA

Head of Program: Prof. Dr. Ünsal OSKAY

RADIO-TELEVISION

The students enrolled in this program are expected to examine, probe and study the history and literature of communications in general and of radio, television and cinema in particular. The emphasis in this program is on theoretical and critical analysis of the field, whereas recent developments in the rapidly changing world of radio and television are also dealt with.

The MA degree necessitates the completion of a teaching program of two semesters comprised of 24 hours (12 courses of two hours, in two semesters) followed by a written dissertation in maximum 4 semesters; and approved by the assigned advisor and defended successfully in front of an assigned jury.

Language of Instruction: Turkish

MASTER'S PROGRAM IN RADIO AND TELEVISION

First Semester

The Development of Radio and TV Technology from the Beginning up to Date
Recent Techniques of News Research and Writing
The Cultural Environment of Communication in Contemporary Societies
Script Research and Broadcasting Techniques
The Legal Structure of Radio and Television Broadcasting in Turkey and in the World
Türksat and Satellite Broadcasting

Second Semester

The Development of Theater from the Antique Ages to the Age of Cinema and Television
Contemporary Theories of Communication
Program Analysis in Radio and TV
Program Production in Radio
History of Cinema
Camera Techniques in Cinema and Television

MARMARA ÜNİVERSİTESİ

COURSE DESCRIPTIONS

The Development of Radio and TV Technology from the Beginning up to Date: Radio and TV broadcasting and technology, satellite communications, cable television and MMDS broadcasting in their historical phases of development.

Recent Techniques of News Research and Writing: Basic principles of news gathering, writing, and analysis.

The Cultural Environment of Communication in Contemporary Societies: Problems of communication such as technological developments, the expansion of participatory democracy, economic advancements, the demands for a more equitable allocation of resources, globalization of the world, the variations in the cultural and educational environments, are discussed.

Script Research and Broadcasting Techniques: Study of basic techniques of scriptwriting and different script forms; giving special emphasis on how to read and criticize scripts, focusing on character development, story structure, plot and dialogue.

The Legal Structure of Radio and Television Broadcasting in Turkey and in the World: The legal structure of radio and TV broadcasting in their historical development, in the world and in Turkey.

Türksat and Satellite Broadcasting: The social, economic, technological legal aspects of Türksat Satellite; and its future promises for Turkey.

The Development of Theater from the Antique Ages to the Age of Cinema and Television: Theories and forms of the theater from the antique ages up to date, with its popular versions in cinema and television.

Recent Theories of Communication: A critical approach towards the "bullet theory" of pre- 1950's, which claims the communication process to be an independant variable in the control of the communicator; giving emphasis on the recent theories which attribute more weight on the reception phase of communication.

Program Analysis in Radio and Television: Formal and contextual analysis of radio-television programs in Turkey; in comparision with the Western experience.

Production in Radio: Production techniques and methods of radio; in theory as well as in practice.

History of Cinema: The historical development of cinema in Europe, America and in Turkey.

Camera Techniques in Cinema and Television: Utilization of camera, camera angels and lenses in cinema and TV; with practical works.

COMMUNICATION SCIENCES

MA Program in Communication Sciences is carried on by the Department of Radio-TV and Cinema, whose ultimate aim is to donate the students with a firm understanding of theory of communications and with analytical ability and skills, from which they will benefit in their professional and academic carreers.

The MA degree necessitates the completion of a teaching program of two semesters comprised of 24 hours (10 courses of two or three hours, in two semesters) followed by a written dissertation in maximum 4 semesters, and approved by the assigned advisor and defended successfully in front of an assigned jury.

Language of Instruction: Turkish

MASTER'S PROGRAM IN COMMUNICATION SCIENCES

First Semester	Second Semester
Everyday Images and Semiology	Early Nineteenth Century English Literature
Comparative TV Broadcasting	The Historical Development of Radio-Television Broadcasting
The Socio-Cultural Environment of the Modern Age	The Process of Popularization in Cinema
Recent Developments in Radio-TV Technology	Drama and Novel as a Communication Form
Founder Directors of the Turkish Cinema	Italian Cinema

Ph.D PROGRAM IN COMMUNICATION SCIENCES

First Semester	Second Semester
Case Studies from Contemporary Cinema	Turkish Cinema in 1960's
Social and Cultural Environment of Today's Individual	Theories and Concepts of the American and European Cinema
Film Analysis	Critical Theory
Violence and Horror in Cinema and Television	Broadcasting Policies of the Mass Media
Third World Cinema	Socio-Cultural Transformations from the Renaissance up to Date
Music in the Period of Time	

MARMARA ÜNİVERSİTESİ NEVİ

COURSE DESCRIPTIONS

Eveyday Images and Semiology: A cultural studies approach to the images and semiology in everyday life in modern societies.

Comparative Television Broadcasting: A comparision between the American, European and Turkish broadcasting systems. The course is concerned with relations between the state and broadcasting; regulative and administrative structures and the impact of new technologies, and privatization in various systems.

Socio - Cultural Environment in the Modern Age: The impact and role of communication in the socio-cultural environment of the modern ages, starting from 19th century.

Recent Developments in Radio and Television Technology: Video-image processing techniques, terrestrial television and radio broadcasting, and sattelite and cable-TV applications.

Founder Directors of the Turkish Cinema: A brief history of cinema in Turkey, through exploration of major directors and their works; including Muhsin Ertuğrul, Ö. Lütfi Akad, Metin Erksan, Halit Refiğ, Atıf Yılmaz, Ömer Kavur, Tunç Başaran.

Early Nineteenth Century English Literature: An analysis of the early 19th Century English novel.

The Historical Development of Radio - Television Broadcasting in Turkey: Radio and TV history in Turkey with reference to administrative and legal structuring of TRT in various periods of Turkey's recent history. Political and social impacts of radio and TV, and the latest boom in privare broadcasting are also examined.

The Process of Popularization in Cinema: The process of popularization in world cinema through its historical context.

Drama and Novel as a Communication Form: Starting from Shakespeare, Cervantes, Erasmus and Chaucer, the emergence of the novel and drama as new artistic forms; and the semantic transformations in the understanding of individualism, life, love and happiness; and their impact on modern societies; with special emphasis on Leo Lowenthal's theories.

Italian Cinema: Major trends and forms in Italian cinema, by analyzing the works of some prominent directors such as De Sica, Rosselini, and Visconti.

The students enrolled in the Ph.D. program are expected to examine, probe and study the history and literature of communications in general and of radio, televison and cinema in particular. The emphasis in this program is on theoretical and ciritical analysis of the field, whereas recent developments in the rapidly changing world of radio and television are also dealt with.

MARMARA ÜNİVERSİTESİ YAYINEVİ

The **Ph.D.** degree necessitates the completion of a teaching program of two semesters comprised of 24 hours (12 courses of two hours, in two semesters) followed by a written dissertation in maximum 10 semesters; and approved by the assigned advisor and defended successfully in front of an assigned jury.

Case Studies in Contemporary Cinema: A critical approach to conventional film analysis techniques.

Social and Cultural Environment of Today's Individual: A history of interrelations between mass communication and culture, from the 19 th century to the late 1980's. Emphasis is on the social organizational, political and economic considerations that shaped the communications and culture of various periods of history.

Film Analysis: Critical approach to film analysis from the point of view of the triad comprised of theme, story and problematics; and the critics of contemporary critical theory of cinema.

Violence and Horror in Cinema and TV: A theoretical approach to the concept of violence and horror; and their comparative impact on society and media.

Third World Cinema: Examples and cases from the third world cinema and directors.

Music in the Period of Time: The phases of development of the musical arts, in parallel with the development of societies and human beings; and the introduction of music as the most abstract form of communication.

Turkish Cinema in 1960's: Turkish cinema and directors of 1960's will be discussed, with case studies.

Theories and Concepts of the American and European Cinema: A comparative evaluation of American and European cinema in their historical progress.

Critical Theory: The historical development of the critical school and theory and its impact on the communicabon theory; with emphasis on the works and opinions of Horkheimer, Adorno, W. Benjamin, Habermas, T. Luke, Paul Picone and H. Arlend.

Broadcasting Policies of the Mass Media: New developments in communication technologies such as cable, DBS and HDTV; and legal developments and policies concerning these media, in national and international levels.

Socio-Cultural Transformations from the Renaissance up to Date: The changing image of man in literature and arts after Renaissance, and the development of the modern society. The critical attitude towards the ethcis of the period and the reflections of it on arts and literature are analyzed.

MARMARA ÜNİVERSİTESİ YAYINEVİ

DIVINITY

Director: Prof. Dr. İbrahim Kafi DÖNMEZ

BASIC ISLAMIC SCIENCES

Director : Prof. Dr. Mehmet ERKAL

KORANIC COMMENTARY

Head of Program: Assoc. Prof. Dr. Sadreddin GÜMÜŞ

As a discipline of the Department of Principal Islamic Sciences in the Faculty of Divinity, Tefsir deals with Koranic commentary or interpretation of the Koran in a methodology. It also aims to help other Islamic disciplines like jurisprudence, Kalam solve the contemporary theological problems. In this discipline it is very important to know Arabic language in advanced level.

Language of Instruction: Arabic and Turkish

MASTER'S PROGRAM IN KORANIC COMMENTARY (TEFSİR)

First Semester

The Orientalists and their Koranic Researches I
The Sources of Methodology of Koranic Commentary I
Arabic Language and its Rhetoric I
The Methods of Koranic Commentary I
The Literature of Hadith I
Electives:
- Qiraat (The ways and forms of reading the Koran) I
- Advanced Level of Arabic Language I
- Mystical Koranic Commentary I

Second Semester

The Orientalists and their Koranic Researches II
The Sources of Methodology of Koranic Commentary II
Arabic Language and its Rhetoric II
The Methods of Koranic Commentary II
The Literature of Hadith II
Electives:
- Qiraat (The ways and forms of reading the Koran) II
- Advanced Level of Arabic Language II
- Mystical Koranic Commentary II

Ph.D. PROGRAM IN KORANIC COMMENTARY

First Semester	Second Semester
Inimitability of the Koran I	Inimitability of the Koran II
Subjectical Koranic Commentary I	Subjectical Koranic Commentary II
The Classical and Contemporary Koranic Commentary Texts I	The Classical and Contemporary Koranic Commentary Texts II
The Methodology of Jurisprudence I	The Methodology of Jurisprudence II
Advanced Level of Arabic Language I	Advanced Level of Arabic Language II

COURSE DESCRIPTIONS

The Orientalists and their Koranic Researches I-II: In this course, these subject matters are discussed: Arguments of the western scholars about the origin of the Koran, revelation (vahy), the history of the Koran, personality of Muhammad, the prophet of Islam, with answers given by muslim scholars.

The Sources of Methodology of Koranic Commentary I-II: It aims to discuss the main methodologic subjects in addition to study development of the books connected with methodology of Koranic commentary.

Arabic Language and its Rhetoric I-II: It's very important to know the main characteristics of Arabic language to understand the meaning of the Koran correctly. So all concepts of Arabic rhetoric are taught in this course.

The Methods of Koranic Commentary I-II: The methods applied in the Koranic commentary are taught and texts from well-known commentaries written in accordance with one of these commentarial methods are studied in this course.

The Literature of Hadith I-II: This course studies the materials of Sunnah (Tradition) the second main source of Islam and classifies all Traditional books and provides students how to take advantage of its literature.

ELECTIVES: In master program students choose in a semester one of these three subjects.

Qiraat (The ways and forms of reading the Koran) I-II: In this course these matters are taught: The schools of Qiraat, their origins, peculiarities and their progress.

Advanced Level of Arabic Language I-II: In this course classical Koranic commentaries and some Arabic texts which are written at high literary level are studied.

Mystical Koranic Commentary I-II: It deals with the character and peculiarities of mystical commentaries on Koran and classifies the acceptable and unacceptable ones.

Inimitability of the Koran I-II: It deals with the aspects of inimitability (i'câz) of the Koran and discusses by which aspect it has been a miracle, by its phonetic complex or by its meaning or by both of them.

Subjectical Koranic Commentary I-II: In this course this new commentarial method which has emerged about a century ago is discussed and students are given a subject from the Koran and asked to discuss it in all aspects. This subject is a practical subject.

The Classical and Contemporary Koranic Commentary Texts I-II: The aim of this course is to answer the contemporary problems connected with the point of view of Koran on women, economy, policy, society, law etc. and to discuss the pecularities of contemporary Koranic commentary.

The Methodology of Jurisprudence I-II: It aims to study the common points between jurisprudence and Koranic commentary. It also aims to discuss the point of view of the modernist and the other schools on how it has been source for Islamic law.

Advanced Level of Arabic Language I-II: In this course some texts written in more advanced level than the ones studied in master's program are studied.

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KALAM

Head of Program: Prof. Dr. M. Salim YEPREM

Kalam is a discipline of the Department of Basic Islamic Studies which deals with theoretical principles of Islamic Theology using logical proofs and dialectical argumentation. This science also defends Islamic doctrine against foreign influences and provides solutions for the problems of the Muslim Society. Muslim faith and its creed are main subjects of Kalam.

Language of Instruction: Arabic and Turkish

MASTER'S PROGRAM IN KALAM

First Semester	Second Semester
Contemporary Issues of Belief I	Contemporary Issues of Belief II
Early Classical Kalam Texts I	Early Classical Kalam Texts II
Sources of Kalam	Methodology of Research
Psychology of Religion	Philosophy of Religion
Classical Books Islamic Mysticism (Tasavvuf)	Contemporary Religious Movements
	Methodology of Islamic Law
	Introduction to Philosophy

Ph.D. PROGRAM IN KALAM

First Semester	Second Semester
Contemporary Issues of Belief I	Contemporary Issues of Belief II
Comparative Subjects of Kalam I	Comparative Subjects of Kalam II
Important Manuscripts Sources of Kalam I	Important Manuscripts Sources of Kalam II
Contemporary Philosophical Movements	Methodology of Islamic Law
Biblical Studies I	Biblical Studies II

COURSE DESCRIPTIONS

Contemporary Issues of Belief I-II: The problems of faith of modern people are examined carefully in this course. Firstly, it aims to identify problems related to this subject especially in modern age. Secondly, tries to establish the characteristics of these problems which cause difficulties. Finally, solutions to these problems are discussed.

Early Classical Kalam Texts I-II: During this course one of main books of Kalam is commented on at length and translated from Arabic to Turkish every semester.

Sources of Kalam: The aim of the course is to make the principal books of Kalam known.

Psychology of Religion: The history of the Psychology of Religion, Psychological concepts connected with religious behavior and other subjects are taught.

Classical Books of Islamic Mystisicism (Tasavvuf): Early books about Islamic Mysticism are examined in this course.

Methodology of Research: It aims to provide students with all the information they need for research on their special subjects.

Philosophy of Religion: It deals with the religious phenomenon and thought. Philosophical ideas are critically discussed.

Contemporary Religious Movements: Innovative ideas about religious, modern sects and trends are discussed in this course.

Methodology of Islamic Law: Fundamental principles of Islamic Law, rules of legislation and sources based on Quran and Hadith are studied in this course.

Introduction to Philosophy: Greek Philosophy, Medieval Philosophy and Modern Times Philosophy are summarized and the metaphysical theories are clarified.

Contemporary Issues of Belief I-II: The problems of faith of modern people are examined carefully in this course. Firstly, it aims to identify problems related to this subject especially in modern age. Secondly, tries to establish the characteristics of these problems which cause difficulties. Finally, solutions to these problems are discussed.

Comparative Subjects of Kalam I-II: In this course one of main books of Kalam is commented on at length and translated from Arabic to Turkish every semester. In addition the subjects which are defended by the principal schools are discussed.

Important Manuscripts Sources of Kalam I-II: The aim of the course is to make the principal books of Kalam known. The books are read from the manuscripts copies.

Contemporary Philosophical Movements: Modern thoughts which affect religions and societies are taught.
Biblical Studies I-II: It aims to teach Christian and Judaic beliefs from their sacred books.

Methodology of Islamic Law: Fundamental principles of Islamic Law, rules of legislation and sources based on Quran and Hadith are studied in this course.

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ISLAMIC MYSTICISM (TASAWWUF)

Head of Program: Prof. Dr. Mustafa TAHRALI

As a discipline of the Department of Basic Islamic Sciences Tasawwuf, deals with mystical interpretation of Koran and Sunna, the essential sources of Islam. It aims to define some important books written by this method. It also aims to give information about mystical concepts, famous muslim mystics/sufies, mystical conditions, positions, schools, tarikats, foundations and the role of all in the psyco-social life of Muslims.

MASTER'S PROGRAM IN ISLAMIC MYSTICISM

First Semester

The Steps of Being (Marateb al-Wujûd)
The Concepts of Tasawwuf
The Tasawwuf Classics
The Search Methods
Ottoman Tasawwuf Texts

Electives:

Introduction to Philosophy
Classical kalam Texts

Second Semester

The Steps of Being (Marateb al-Wujûd)
The Concepts of Tasawwuf
The Tasawwuf Classics
The Search methods
Ottoman Tasawwuf Texts

Electives:

Introduction to Philosophy
Classical Kalam Texts

Ph.D. PROGRAM IN ISLAMIC MYSTICISM

First Semester

Introduction to Fusus al-Hikam
Mystical Commentary of Dogmas
The Conditions and the Positions at Tasawwuf (Ahwal and Makamat)
Persian Tasawwuf Texts
The Comparative Kalam Texts
The Philosophy of Character (Akhlak) Texts
The Explanation of al-Masnawy

Second Semester

Introduction to Fusus al-Hikam
Mystical Commentary of Dogmas
The Conditions and the Positions at Tasawwuf (Ahwal and Makamat)
Persian Tasawwuf Texts
The Comparative Kalam Texts
The Philosophy of Character (Akhlak) Texts
The Explanation of al-Masnawy

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COURSE DESCRIPTIONS

MA

The Steps of Being (Marabeb al-Wujûd): It aims to explain and research the steps of being and the explanation and translation of Mehmed Emin Efendi on al-Tuhfa al-mursala for Fadlullah al-Hindy that connected with oneness of being (Wahdat al-Wujûd).

The Concepts of Tasawwuf: This subject aims to define the general concepts that advanced and adopted by tasawwuf; to show their places in the tasawwuf literature. In this subject the sources of concepts like Menazil al-Sairin, Minhaj al-Fukarâ', Mashrab al-Arwah are defined and example texts are studied.

The Classical texts of Tasawwuf: In this subject the classical texts of tasawwuf like Qût al-Qulûb, al-Riâyah li-Hukûkillâh, Risâlat al-Qushairy, al-Ta'aruf li-Mazhab Ahl al-Tasawwuf, tazhib al-Asrâr, Kaşf al-Mahcûb, and their scholars are studied and defined.

Persian Mystical Texts and The Ottoman Mystical Texts: In these subjects the mistical texts written in Persian/Ottoman are read, discussed and explained.

The Texts of the Islamic Philosophy: The aim of this subject is to discuss the distinguished texts which reflects the characteristics of Islamic philosophy and the relations of this intellectual tradition to the other mental movements in the classic age of Islam.

The Classical Kalam Texts: As two disciplines that connecting with the mental problems of people, about God, being, human and the relation between their-there is a relation between tasawwuf and kalam. So this subject aims to teach tasawwuf students the opinions of the scholars of kalam around the problems which sufies talking about, taking the classical kalam texts into consideration.

Ph.D.

Introduction to Fusus al-Hikam: In this subject the opinions and ideas of Muhyiddin ibn 'Arabi are studied and discussed in the ligth of Ahmad Konuk's translation and explanation on his book Fusus al-Hikam.

The Mystical Commentary of Dogmas: The aim of this subject is to define the method of sufical/mystical commentary method; to teach the essential rules of this commentary; to study the interpretations of mystical commentaries written by sûfies and also to define the books that implicate mystical interpretation written by sufi muhaddis' or by muhaddis sufies; to study some interpretations from Arabic and Turkish books.

The Conditions and the Positions at Tasawwuf (Ahwal and Makamat): This subject aims to study the mystical/spiritual conditions and positions by elective pas-

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sages from Manazil al-Sairin, Madarij al-Salikin, Minhaj al-Fooara' and al-Qasd wa'l-Rujû'ilâllah.

The Explanation of al-Masnawy: Elective passages from the explanations written on al-Masnawy of Mawlana Jalâla'd-din by some distinguished scholars like Avni Konuk, Abidin Pasha, Ismail Angarawy, and Ismail Haqqi are studied.

Tasawwuf Throughout The Ottoman Periods: In this subject general information about the mystics/sufies who are emerged and distinguished in the Ottoman process, the foundations of Tasawwuf, tarikats, dervish lodges and ahi unions that developed at the same period. It also deals with definition to the sources related to these; with studying the example texts about this like Safina-i Awliyâ' of Husain Wassaf Bey and Tibyân of Harirzâde, especialy with to study Ottoman tasawwuf texts from some manuscripts.

The Comparative Kalam Texts: In this subject some elected matters from the classical kalam texts are studied and discussed in comparison with kitab al-Tawhid of Maturidy, Huccatullah al-Bâliga of Dihlawy, al-Fütühat al-Makkiyya of Ibn 'Araby, al-mustasfâ of al-Chazzâly, al-Kulliyyât of Hasan Hanafy and some texts from Shi'a.

SCIENCE OF HADITH
(Hadith, precedents of the Prophet)

Head of Program: Prof. Dr. Yaşar KANDEMİR

Department of Hadith, opened in 1983-1984 acadmic year, offers graduate programs (MA, Ph.D) in the Science of Hadith in Turkish and Arabic in order to response to the need for researchers, lecturers, and scholars in this discipline. The master's program lasts two years, and the doctorate program three years. During the first year of each program, over 15 full-time faculty members teach about 25 different courses and seminars on various subjects such as History of Hadith, Literature of Hadith, Texts of Hadith, Texts of Hadith's Methodology, Architects of Hadith, Problems of Hadith, Islamic Jurisprudence, and Ratiocination of Hadith. After the students finish the first year education, they undertake thesis under the supervisory of the well-known teachers for one year in the master program, two years in the doctorate program.

MASTER'S PROGRAM IN THE SCIENCE OF HADITH

First Semester	Second Semester
Texts of Hadith's Methodology	Texts of Hadith's methodology
Texts of Hadith	Texts of Hadith
Architects of Hadith	Architects of Hadith
Literature of Hadith	Literature of Hadith
Complex Problems of Hadith	Complex Problems of Hadith
Islamic Jurisprudence	Islamic Jurisprudence

Ph.D. PROGRAM IN THE SCIENCE OF HADITH

First Semester	Second Semester
Texts of Hadith	Texts of Hadith
Problems of Hadith	Problems of Hadith
History of Hadith	History of Hadith
Ratiocination of Hadith	Ratiocination of Hadith

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COURSE DESCRIPTIONS

Texts of Hadith's Methodology: The subject focuses on early period manuels in the field and their contents to give an idea about early development of Hadith's Methodology, and help the students to gain a methodological approach to the material of Traditions.

Texts of Hadith: Passages chosen from various classical works are the matter of the suject, and some passages from related modern works are studied as well. The aim of the present course is to enable the student to view the vast material of Traditions within.

Architects of Hadith: The subject treats the earliest distinguished authorities, and great experts in traditions who devoted themselves to the study of traditions, and provided this science to come into being. In addition, the traditionists who have great contributions to the development of Hadith are dealt with as well.

Literature of Hadith: The products of scholarship in the all branches of The Science of Hadith which the researchers require in their scientific studies are introduced in order to provide them with necessary qualification.

Complex Problems of Hadith: The subject examines difficult problems of Hadith, and explains them on a scientific basis, making it easier for students to comprehend.

Islamic Jurisprudence: The commands of shari'a, classification of the commands, sources of commands, the methods of deriving rules of law from legal texts by their textual implications, and the person who derives these rules are elaborated as subject-matter of Islamic Jurisprudence. The aim of the subject is to get the student acquaintance with the method of utilising the sources among which the precedents of the Prophet (Traditions) exists.

Texts of Hadith: Texts' chosen from various early works of Hadith are studied in further detail. The passages are more scholarly and complex than the content of MA program.

Problems of Hadith: The subject focuses the attention on the opinions on the different aspects of the Hadith and Sunnah. These opinions, whatever they are, are discussed on a scientific basis, putting aside all partiality.

History of Hadith: The subject studies the process through which the science of hadith passed during the history under social, political, and cultural circumstances.

Ratiocination of Hadith (Fiqh al-Hadith): It aims to enable the students to grasp the spirit of prophetic precedents by helping them to have an exact and methodical thinking on Traditions.

SCIENCE OF ISLAMIC LAW

Head of Program: Prof. Dr. Salih TUĞ

This program was opened in 1983-84 academic year as one of the branches of the Department of Basic Islamic Sciences. Its main purpose is to provide various Faculties of Divinity with researchers in this field.

Academic period for M.A. program consists of two years. First year is a period of courses, and the second year is the writing up period of his/her thesis. As for Ph.D. program, it is altogether there years of period, one year for courses, and remaining two years for writing up period of the thesis.

This program requires especially the knowledge of arabic, and aims to solve contemporary fiqh problems of muslims in the light of classical works. Therefore, researches are being carried out on both modern and classical subjects.

Language of Instruction: Turkish

MASTER'S PROGRAM IN SCIENCE OF ISLAMIC LAW

First Semester	Second Semester
Introduction to Law	Introduction to Law
Comparative Islamic Law	Comparative Islamic Law
Fiqh al sira	Fiqh al sira
Research Techniques	Research Techniques
Literature of Islamic Law	Literature of Islamic Law
Methodology of Islamic Law	Methodology of Islamic Law
General Principles of Law	General Principles of Law

Ph.D. PROGRAM IN SCIENCE OF ISLAMIC LAW

First Semester	Second Semester
Public Law	Public Law
Public Law of Islam	Public Law of Islam
Contemporary Fiqh Problems	Contemporary Fiqh Problems
Sociology of Law	Sociology of Law
Philosophy of Islamic Law	Philosophy of Islamic Law
Thought of Islamic Economy	Thought of Islamic Economy
Classical Texts of Fiqh	Classical Texts of Fiqh

COURSE DESCRIPTIONS

Introduction to Law: Aims to give basic concepts of law, along with systematics, main subjects, sources and historical development of Turkish natural law. Also makes a comperative examination of the systematics of positive law with the sistematics of Islamic law.

Comparative Islamic Law: Makes a comperative examination of schools of islamic law, as well as of islamic law with positive law (western law).

Fiqh al-sira: Discusses the judicial judgements derived directly or indirectly from the implementation of the Prophet during Macca and Medina era. Examines the concept of sunna and its judicial value.

Research Techniques: Covers research techniques and rules of academic writing which will be followed during studies on islamic law. Gives ways and means of reaching and using the sources. Introducing bibliographical works and editorial critics.

Literature of Islamic Law: Introducing the literature in accodance with the areas and schools of law from the second hijri century until twentieth century.

Methodology of Islamic Law: Covers the general principles and basic problems of methodology of islamic law, as well as issues related to Qoran, sunna, consensus and analogy.

General Principles of Law: makes a comparative examination of established principles in Turkish civil law (including law of family and obligations) and criminal law with general principles in islamic law. Also examines first hundred articles of *Mecalla* and their implementation.

Public Law: Covers sub-branches and basic concepts of public law. Historical development of Turkish public law. Gives basic information concerning state, constitution, essential rights and freedom and constitutional institutions.

Public Law of Islam: Handles the emergence of Islamic constitutional law, its historical development, its main subjects and problems. Introducing the literature.

Contemporary Fiqh Problems: Establishing judicial problems of contemporary muslims and their solutions in the light of classical sources. Looking at the contemporary approaches on these issues. Discussing methodology on solving judicial problems.

Sociology of Law: Focuses on the socio cultural factors on the emergence and development of Islamic law. Discussing the understanding of *curf* and social environment in islamic law along with the implementation of sociology of law on Islamic law. Basic issues of sociology of islamic law.

Philosophy of Law: Handles the question of the problem of source in law. Examines the opinions of methodology of islamic law. Makes a comparative study on the philosophy of islamic law with the philosophy of islamic law. Discusses basic problems of philosophy of islamic law. Also introduces the related literature.

Thought of Islamic Economics: Gives the basic subjects of economy along with the economic concepts and principles in Qoran and sunna. Covers the emergence and development of islamic economy. Introducing literature. Examines the main subjects of economy.

Classical Texts of Fiqh: Studying on some examples of selected classical texts of both sunni and sia schools of law.

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ARABIC LANGUAGE

MASTER'S PROGRAM IN ARABIC LANGUAGE

First Semester	Second Semester
Classical Sources I	Classical Sources II
Translation Arabic-Turkish	Translation Arabic-Turkish
Rhetorical Sciences I	Rhetorical Sciences II
Modern Texts I	Modern Texts II

Ph.D. PROGRAM IN ARABIC LANGUAGE

First Semester	Second Semester
Arabic Language Phonology	Schools of Arabic Language
Rhetoric	Rhetoric
Translation Arabic-Turkish	Translation Arabic-Turkish
Translation Turkish-Arabic	Translation Turkish-Arabic

COURSE DESCRIPTIONS

Arabic Language Phonology: In this subject, description and contents of phonetic and phonology, structre and formation of voice, pronounciation of this voice, especially phonetic transformation emerged in Arabic language, the causes and results of this transformation... etc. are taught and discussed with the students and giving them posibility of comparing between dialect and near languages.

Materials:

- Phonology and phonetic matters (from Encyclopedia)
- İsmail Durmuş, Ğayn and Cim matters of İslam Encyclopecia (DİA) and phonetic transformation.
- Ebu't-Tayyib el-Lugavi, Kitaba'l-İbdal
- Zeccaci, Kitabu'l-İbdal
- İbnu's-Sikkit, Kitabü'l-Kalb ve'l-İbdal
- İbn Cinni, Sirru Sına'ati'l-i'rab
- J. Cantineau, Esquisse d'ue Phonologie de l'arabe
- Rudolf Rucicka, La Question de L'existence du ğ (ğayn) dans les hangues semitiques
- Rudolf Rucicka, L'Alternance du Ayn- Ğayn en Arabe
- Sabatini Moscati, An introduction to the comparative grammer the semitic languages, phonology and morphology.

Schools of Arabic Language: This subject covers the rising of arabic grammar and factors of its rising, the factors influence on the rising of language schools, the school of Bashra, Kufe, Bagdath, Egypt and andalusia, the representatives of these schools and main subjects ... etc. that give to the students the point of view on the matters of language.

Bibliography:
- Tantavi, Neş'eu'n-nahv ve tarihu eşheri'n-nuhat
- Şevki Dayf, el-medarisun'n-nahviyye
- İbnu'l-Enbari, el-İnsaf fi mesa'ili'l-hilaf

Rhetoric: In this subject the literary and rhetorical arts that relating to in letter and spirit, in main sorts and patterns and aims to distinguish between prose and poetry and to improve the gift of distinguish of students in the sorts of literary arts.

Bibliography:
- İsmail Durmuş, Selections from Cahiliyye poetry and Quran.
- İbnu'l-esir, el-Mesel's-sair; Sekkaki, Miftahu'l-ulum; Kazvini, el-Telhis; el-Taftazani, Muhtasaru'l-meani and el-Mutavvel; İbn Ebu'l-İsba'; Tahriru't-tahbir and Bedi'ul-Qoran; İbnu'l-esir el-halebi, Cevheru'l-Kenz;
- Safiyyuddin el-Hilli, şeru'l-Kafiyeti'l-Bedi'iyye;
- İbn Hicce, Hizaneti'l-Edeb
- Nabulusu, Nefehatü'l-Ezhar

Translation From Arabic To Turkish:
1 – The etymologies of Arabic and Turkish languages and the differencies between them.
2 – The capability of Arabic and Turkish languages from the way of telling.
3 – Applying on the example from the daily life.
4 – The idioms of the two languages and their use.

Bibliography:
Taha Huseyn, el-Edip

Translation From Turkish To The Arabic: It aims to translate Turkish Texts to the Arabic using a new modern translation method made from the two well-known translation methods from Turkish to Arabic.

Classical Sources: The Classic sources: language, syntax, morphology, rhetoric, eloquence, literature, poems and biographies... etc. to study the main sources with their characteristics to help students to find out their topics for research.

The science of lexicography: This subject covers the arising of this science and its factors, the concept of lexicons, the main kinds of lexicon and its schools and their characteristics, to study these subjects and teaching the students the historical improvement of arabic lexicography.

Bibliography:
- İsmail Durmuş: Selected from safedi's Gavamcu's-Sihah
- Selected from el-Buhusu'l-Edebiyye
- M. Mahir Hammade, Selected from Masadiru'l arabiyye
- Y.E. Dagir, Selected from Masadiru'd-dirasati'l-edebiyye
- İzzeddin İsmail, Selected from el-Mesadiru'l-edebiyye
- A. Abdulgafur, Mukaddimetü's-sihah
- M.S. Kannûci. el-Bülga fi usuli'l-luga
- Suyuti, el-müzhir fi ulumi'l-luga
- Emil B. Yakub, el-Ma'acimu'l-lugaviyye

Translation From Arabic To Turkish:

1 – Translation methods from Arabic to Turkish
2 – The characteristics of both languages from way of telling

Bibliography:
- Taha Huseyn, el-Va'du'l-Hak

Rhetorical Sciences: The subject contains the rhetorical sciences (Beyan, Maani and Badi'). The aim of these three parts of the science is to bring in the students the techniques of talking arabic in different positions.

Bibliography:
- el Hatip el-Khazvini, et-telhis
- Huhammed b. Muzaffer el-Hilhali, Miftahu telhisi'l-Miftah
- Bahauddin es-Subki, Arusu'l-efrah fi şerki telhisi'l-miftah.
- Sa'duddin et-Taftazani, eş-Şemu'l-Kabir li't-telhis
- Ibn Yakub el-Mağribi, Mevahibu'l-Miftah fi Şerhi telhisi'l-Miftah.

Modern Texts: The aim of this subject is to teach the modern arabic that emerged since 1789 which Napaleon B.S. attacked Egypt, the masters of this literature, New words, analytic styles, modern literary schools and other matters are studied in Arabic conversations completely.

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PHILOSOPHY AND RELIGIOUS SCIENCES

Director: Prof. Dr. Bekir KARLIĞA

HISTORY OF PHILOSOPHY

Department of History of Philosophy opened in 1982, offers undergraduate and graduate (M.A.) programs in The History of Philosophy. 10 full-time faculty members teach about 14 different courses and seminars on various subjects ranging from Pre-Socratic Philosophy to Modern Western Philosophy.

Language of Instruction: Turkish

MASTER'S PROGRAM IN THE HİSTORY OF PHILOSOPHY

First Semester	Second Semester
Classical Religious Texts I	Classical Religious Texts II
Classical Languages (Latin, Hebrew)	Classical Languages (Latin, Hebrew)
Modern Philosophy	Modern Philosophy
Islamic Thought	Islamic Thought
Texts of History of Philosophy in Arabic	Texts of History of Philosophy in Arabic
Introduction to Philosophy	Introduction to Philosophy
Classical Logic	Classical Logic
Philosophy of Plato	Philosophy of Plato
History of Philosophy I	History of Philosophy II

COURSE DESCRIPTIONS

Classical Religious Texts I-II: This course is devoted to the reading of texts related to the History of religions and especially Islamic religious texts. The general purpose of this course is to develop ability of true understanding and true translation of Arabic texts in addition to that providing to the student to gain the ability of scientifically analyses of those texts.

History of Philosophy I: (Pre-Socratic Philosophy) This course covers the problems related to Eastern Philosophy (Egyptian, Persian and Indian) and its relations to the pre-Socratic Greek Philosophy such as Ionya and Elea School's.

History of Philosophy II: (Post-Socratic Philosophy) This course is devoted to the analysis of Post-Socratic period. Humanistic Philosophy, Sophists, and dealing with sense perceptions in the field of Theory of Knowledge. Socrates' moral philosophy, Socratic schools, Plato and Idea Theory, Neoplatonists, Aristotle and his philosophy.

Texts of History of Philosophy in Arabic: Readings of same texts chosen from the classical books about History of Philosophy. The aim is to show the students how the ancient philosophy understood by the historians of philosophy in the Islamic world. The period of translations is the first four centuries of islamic history.

Modern Philosophy: This course covers a brief introduction to the Modern Philosophy, fundamental problems of Modern Philosophy, the place and effect of physical sciences in the philosophy, Kant and his philosophy, important currents philosophers and problems of 19th and 20th century philosophy.

Islamic Thought: This course investigates the basic principles of Islamic Philosophy, its place and importancy in the world thought.

Classical Logic: The subjects studied in this course are: Definitions of classical Logic, its nature, its beginnings, its place between the sciences, basic principles, beginning of modern logic and similarities and differences between these two logics (classical and modern).

Introduction to the Philosophy: This course offers general introduction to the metaphysics, epistemology and moral philosophy, and institutes relations between them.

Classical Languages I: Hebrew/Latin I (Optional). This course covers introduction to the Hebrew/Latin Languages and simple readings in the texts written in these languages.

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HISTORY OF ISLAMIC PHILOSOPHY

Head of Program: Prof. Dr. Bekir KARLIĞA

Department of History of Islamic Philosophy opened in 1982, offers undergraduate and graduate (M.A., Ph.D.) programs in the History of Islamic Philosophy. 10 full time faculty members teach about 20 different courses and seminars on various subjects ranging from Methodological Discussions in Islamic Thought, Relations of Religion and Philosophy, Construction of Philosophical Thought in Islam to the Modern Islamic Thought.

Language of Instruction: **Turkish**

MASTER'S PROGRAM IN THE HISTORY OF ISLAMIC PHILOSOPHY

First Semester

Classical Languages I (Latin, Hebrew)
Discussions of Methodology in the Islamic Thought
Texts in Islamic Philosophy I (Arabic)
Philosophical Texts in English
Classical Islamic Logic
Construction of the Philosophical Thought in Islam
Relations of Religion and Philosophy
Ethical Philosophy with Texts I
Classical Religious Texts I

Second Semester

Classical Languages I (Latin, Hebrew)
Discussions of Methodology in the Islamic Thought
Texts in Islamic Philosophy I (Arabic)
Philosophical Texts in English
Classical Islamic Logic
Construction of the Philosophical Thought in Islam
Relations of Religion and Philosophy
Ethical Philosophy with Texts I
Classical Religious Texts I

Ph.D. PROGRAM IN THE HISTORY OF ISLAMIC PHILOSOPHY

First Semester

Classical Languages II (Latinb Hebrew)
Effects in Muslim Thought
Texts in Islamic Philosophy I
Modern Islamic Thought
Relations of Kalam and Philosophy
Conception of Philosophy in Muslim World
Texts in Classical Islamic Logic
Theory of Knowledge and Logic
Texts in Ethical Philosophy II

Second Semester

Classical Languages II (Latinb Hebrew)
Effects in Muslim Thought
Texts in Islamic Philosophy II
Modern Islamic Thought
Relations of Kalam and Philosophy
Conception of Philosophy in Muslim World
Texts in Classical Islamic Logic
Theory of Knowledge and Logic
Texts in Ethical Philosophy II

COURSE DESCRIPTIONS

Classical Languages: Hebrew/Latin I (Optional): This course covers introduction to the Hebrew/Latin languages and simple readings in the texts written in these languages.

Discussions of Methodology in the Islamic Thought: This course is devoted to the comparative analysis of between the philosophical methods and problems developed in the Muslim World and the contemporary philosophy.

Texts in Islamic Philosophy I: This course is devoted to the study of muslim philosophers' philosophical systems in the light of their philosophical works.

Philosophical Texts in English: Readings of some philosophical texts in order to introduce philosophy students terminology and literature of Philosophy in English.

Classical Islamic Logic: This course is devoted to the definition and nature of Classical Islamic Logic, its development in the Muslim World, its main subject.

Construction of the Philosophical Thought in Islam: This course is devoted to the study of formation of philosophical thought in the Muslim World, reasons and results of these activities in the aim of preparation to the more complicated Islamic Philosophy courses.

Relations of Religion and Philosophy: This course covers brief definitions of religion and comparison of great of religions and philosophy in relation to their methods and aims.

Ethical Philosophy with Texts I: Readings of selected texts written by the distinguished thinkers of the ethical philosophy. The aim of the course is to provide the student true understanding and translating ability of the Arabic texts in order to make out reliable conclusions from them.

Classical Religius Texts : This course is devoted to the reading of texts related to islamic philosophy texts. The general purpose of this course is to developability of true understanding and true translation of Arabic texts in addition to providing to the student to gain the ability of scientifically analysis of those texts.

Classical Languages II (Hebrew/Latin II): This course is devoted to the more complicated readings in the texts and introcuction to the reading of Middle Age's philosophical texts.

Effects in Muslim Thought: This course is devoted to the study of problems which is Islam inherited from the Antic Philosophy by studying the translations from Greek to Arabic. Second part of the course is devoted to the study of effects done by Isla-

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mic Philosophy to the European Thought by studying translations from Arabic to Latin, Hebrew and other European Languages.

Texts in Islamic Philosophy II: This course is a continuation of the same course in M.A. and studies the systems of Muslim philosophers in the light of their own works.

Modern Islamic Thought: This course gives information about new movements and thinkers in the Muslim World in the 19th and 20th centuries, in addition to some remarks on the situation of Islamic Philosophies heritage today.

Relations of Kalam and Philosophy: Formation of Kalam as a discipline of Islamic Thought. Its problems, approaches of solving these problems and analitic study of relations between Kalam and Philosophy.

Conception of Philosophy in the Muslim World: This course is devoted to the study of meaning and value attributed to the philosophy by some of the religious and cultural circles from the beginning of the philosophical activities, in addition to the study of criticisms related to relationships of religion, philosophy and science.

Texts in Classical Logic: Studies about the place, importance and function of Classical Logic in Philosophy, Kalam and Fiqh (Jurisprudence) in the light of muslim Logicians works like al-Farabi, Ibn Sina and Gazzali's.

Theory of Knowledge and Logic: Definition, nature and formation of theory of Knowledge. Its relation with other disciplines of philosophy: especially Philosophy of Science and Logic, in addition to some theories about the problem of knowledge in Muslim and Western thought.

Ethical Philosophy with Texts II: More complicated readings of selected texts written by the distinguished thinkers of the ethical philosophy. The aim of the course is to provide the student true understanding and translating ability of the Arabic texts in order to make out reliable conclusions from them.

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PHILOSOPHY OF RELIGION

Head of Program: Prof. Dr. Necip TAYLAN

Department of Philosophy of religion opened in 1982, offers undergraduate and Graduate (M.A., Ph.D.) programs in Philosophy of Religion in Turkish Language. Over 10 full-time faculty members teaches about 20 different courses and seminars on various subjects ranging from the Methodology in Muslim and Western Thoughts to deeper analysis in Islamic and Chiristian religious philosophies, reading of philosophical Texts in Foreign languages and Relations of Philosophy and Religion in Muslim Thought.

Language of Instruction: **Turkish**

MASTER'S PROGRAM IN PHILOSOPHY OF RELIGION

First Semester	Second Semester
Philosophies of Ghazzali and Ibn Rushd	Philosophies of Ghazzali and Ibn Rushd
Methodology in Islamic and Western Thoughts	Methodology in Islamic and Western Thoughts
Relation of Philosophy and Religion in Renaissance Philosophy	Relation of Philosophy and Religion in Renaissance Philosophy
Relation of Philosophy and Religion in Islamic Thought	Relation of Philosophy and Religion in Islamic Thought
Philosophical Texts in Foreign Languages	Philosophical Texts in Foreign Languages
Essential Problems in the Modern Philosophy	Essential Problems in the Modern Philosophy
Relations of Kalam and Philosophy	Relations of Kalam and Philosophy

MARMARA ÜNİVERSİTESİ YAYINEVİ

Ph.D. PROGRAM IN PHILOSOPHY OF RELIGION

First Semester

Relations of Philosophy and Religion in the Renaissance and Modern Philosophy
Essential Problems of Philosophy of Religion
Relations of Philosophy and Religion in the Islamic Thought
Contemporary Muslim Thought
Christian Sects
Classical Religious Texts II
Orientalistic Texts (in English, French and German)

Second Semester

Relations of Philosophy and Religion in the Renaissance and Modern Philosophy
Essential Problems of Philosophy of Religion
Relations of Philosophy and Religion in the Islamic Thought
Contemporary Muslim Thought
Christian Sects
Classical Religious Texts II
Orientalistic Texts (in English, French and German)

COURSE DESCRIPTIONS

Philosophies of Ghazzali and Ibn Rushd: This course covers the discussions of the problems dealt with by Ghazzali and Ibn Rushd by comparing the philosophical systems of both philosophers.

Methodology in Islamic and Western Thoughts: This course is devoted to the comparative analysis between the philosophical methods developed in the Muslim and Western philosophies.

Relation of Philosophy and Religion in Renaissance Philosophy: This course covers brief definitions of religion and comparison of religion with philosophy in relation to their methods and aims, as understood in the renaissance period.

Relation of Philosophy and Religion in Islamic Thought: This course covers the comparative study of Islam and philosophy such as their origins, fundamental principles and methods of dealing with the world by giving certain examples of this relationship from the muslim philosophers' works.

Philosophical Texts in Foreign Languages (English, French, German): Readings of some philosophical texts in order to introduce philosophy students to the terminology and literature of Philosophy in these languages.

Essential Problems in the Modern Philosophy: This course gives a brief introduction to the Modern Philosophy, fundamental problems of Modern Philosophy, the place and effect of physical sciences in the philosophy, Kant and his philosophy, important currents, philosophers and problems of 19th and 20th century philosophy.

LOGIC

Head of Program: Prof. Dr. Ali DURUSOY

Department of Logic opened in 1982., offers undergraduate and graduate (M.A.) programs in Logic. Over 7 full time faculty members teach about 10 different courses and seminars on various subjects ranging classical Islamic Logic to Modern Logic.

MASTER'S PROGRAM IN LOGIC

First Semester	Second Semester
Discussions about Methodology in Islamic Thought	Discussions about Methodology in Islamic Thought
Theory of Logic	Theory of Logic
Philosophical Texts in Foreign Languages	Philosophical Texts in Foreign Languages
Discussion about Philosophy of Religion	Discussion about Philosophy of Religion
Classical Islamic Logic	Classical Islamic Logic
Logic in Ibn Sina	Logic in Ibn Sina
Relationship between Law and Ethics	Relationship between Law and Ethics

RELIGIOUS EDUCATION

Head of the Program: Prof. Dr. Bayraktar BAYRAKLI

MASTER'S PROGRAM IN RELIGIOUS EDUCATION

First Semester	Second Semester
Islamic Thought	Islamic Thought
Introduction to the Methods of Teaching in the Religious Educations	Introduction to the Methods of Teaching in the Religious Educations
Classical Religious Texts I	Classical Religious Texts I
History of Turkish Education	History of Turkish Education
Introduction to the Philosophy of Education	Introduction to the Philosophy of Education
Foundations of Religious Education	Foundations of Religious Education
Introduction to the Problems of Religious Education	Introduction to the Problems of Religious Education
Pshychology of Development	Pshychology of Development

MARMARA ÜNİVERSİTESİ YAYINEVİ

Ph.D. PROGRAM IN THE RELIGIOUS EDUCATION

First Semester	Second Semester
Classical Religious Texts II	Classical Religious Texts II
Basic Problems of Religious Education	Basic Problems of Religious Education
Principles of Religious Education	Principles of Religious Education
Philosophy of Education	Philosophy of Education
Methods of Religious Education	Methods of Religious Education
History of Turkish Education	History of Turkish Education
Applications of Contemporary Education	Applications of Contemporary Education

COURSE DESCRIPTIONS

Islamic Thought: This course investigates the basic principles of Islamic Philosophy, its place and importancy in the world thought.

Introduction to the Methods of Teaching in the Religious Education: This course covers the principles of education, principles of learning, factors that effects the learning process and studying the general teaching methods from the viewpoint of religious education.

Classical Religious Texts I: This course is devoted to the reading of texts related to the History of Religious and especially Islamic religious texts. The general purpose of this course is to develop ability of true understanding and true translation of Arabic texts in addition to providing the student to gain the ability of scientifical analysis of those texts.

History of Turkish Education: This course covers the developments of Turkish education history by comparison with the European educational systems.

Introduction to the Philosophy of Education: This course covers the studying of systems of educational philosophy in comparison with each other.

Foundations of Religious Education: An approach to the religious education on the basis of Qoran.

Introduction to the Problems of Religious Education: This course covers in general man's psychological and faculties which constitute the fundamental problems of education.

Classical Religious Texts II: This course is devoted to the reading of texts related to the History of Religions and especially Islamic religious texts. The general purpose of this course is to develop ability of true understanding and true translation of Arabic texts in addition to provide to the student to gain the ability of scientifical analysis of those texts.

Basic Problems of Religious Education: Psychological characteristics of human being are changing. So this course is devoted to how to develop them and how to overcome the psychological problems.

Principles of Religious Education: This course is devoted to finding out the fundamental subjects of religious education from the Quran using a modern approach.

Philosophy of Education: Studying educational thoughts of Western philosophers by comparison with Islam.

Methods of Religious Education: This course covers the teaching of popular education methods like teaching of Quranic Recitement in the summer courses, preaching techniques ect. in addition to studying of Ibn Khaldun, Shaban Shiafal and Kinalizade Ali Efendi's educational thoughts.

History of Turkish Education: This course covers the developments of Turkish education in the periods of Tanzimat (the political reforms made in the Ottoman State in 1839), I. Meşrutiyet and II. Meşrutiyet periods.

Classical Religious Texts: This course is devoted to the reading of texts related to the History of Religions and especially Islamic religious texts. The general purpose of this course is to develop ability of true understanding and true translation of Arabic texts in addition to that providing to the student to gain the ability of scientifically analysis of those texts.

PSYCHOLOGY OF RELIGION

Head of Program: Assoc. Prof. Dr. A. Murat DARYAL

MASTER'S PROGRAM IN PSYCHOLOGY OF RELIGION

First Semester

Classical Religious Texts
Psychology of Religion in the West and Muslim World
Research methods in the Psychology of Religion
Psychology of Religion
Psychology of Belief in Quran
Psychology of Religion in Sufizm
Philosophical Texts in Foreign Languages

Second Semester

Classical Religious Texts
Psychology of Religion in the West and Muslim World
Research methods in the Psychology of Religion
Psychology of Religion
Psychology of Belief in Quran
Psychology of Religion in Sufizm
Philosophical Texts in Foreign Languages

MARMARA ÜNİVERSİTESİ YAYINEVİ

COURSE DESCRIPTIONS

Classical Religious Texts I: This course is devoted to the reading of texts related to the Psychology of Religions and especially Islamic religious texts. The general purpose of this course is to develop ability of true understanding and true translation of Arabic texts in addition to providing the student to gain the ability of scietifically analysis of those texts.

Psychology of Religion in the West and Muslim World: This course is devoted to the historical process of Psychology of religion, methodological discussions, religious experiments and conversion problems.

Research Methods: Methods used in the psychology of religion: application of experimantal methods like observation, data collection, statistics, etc.

Psychology of Religion: This course covers the subjects related to the essential concepts of the discipline, dimentions of religious life and role of religion in the life of individual, etc.

Psychology of Belief in the Quran: This course covers description and analysis of religious experince and faiths, religious consciousness according to Quran as well as typologies of believer and non-believer ni the Quran.

Psychology of Religion in Sufism: This course is devoted to the inter-disciplinary topics between psychology and sufism such as esctacy, contemplation and visions.

Philosophical Texts in Foreign Languages (English, French, German): Readings of some philosophical texts in order to introduce philosophy students to the terminology and literature of Philosophy in these langueges.

HISTORY OF RELIGIONS

Head of Program: Prof. Dr. Ö. Faruk HARMAN

This department aims to give information about non-muslim religions comparing them with Islam to undergraduate or graduate students. It also gives courses on scientific researches of these religions. Main study area in this department deals with especially history of Judaism and Christianity. Also other religions of the world ranging from primitive religions to High Religions, are taught and studied.

MARMARA ÜNİVERSİTESİ

MASTER'S PROGRAM IN HISTORY OF RELIGIONS

First Semester

Introduction to the History of Religions
Biblical Criticism I
Orthodox Church: The History and Doctrine
Classical Languages I
Classical Religious Texts

Second Semester

Introduction to the History of Religions
Biblical Criticism I
Orthodox Church: The History and Doctrine
Classical Languages I
Classical Religious Texts

Ph.D. PROGRAM IN HISTORY OF RELIGIONS

First Semester

Biblical Criticism II
Polemics between Islam and Judaism
Eastern Christianity
Classical Languages II

Second Semester

Biblical Criticism II
Polemics between Islam and Judaism
Eastern Christianity
Classical Languages II

COURSE DESCRIPTIONS

Introduction to the History of Religions: This course is devoted to the meaning, methods used and general information about "the History of religions". It also deals with researches technics and theories on the origin of religions.

Biblical Criticism I: This course covers the studies of Biblical criticism in the Western world. The method of biblical criticism, The school of J. Wellhausen, The outlines of the technics of criticism used for Old Testament.

Orthodox Church: The History and Doctrine: This course is devoted to the general history of the East Churches, The history of the Orthodox Church and the doctrines of the Orthodox Church.

Classical Languages I: Hebrew/Latin (optional): This course covers Introduction to the Hebrew/Latin languages and simple readings in the texts written in these languages.

Classical Religious Texts I: This course is devoted to the reading of texts related to the History of Religions and especially Islamic religious texts. The general purpose of this course is to develop ability of true understanding and true translation of Arabic texts in addition to providing the student to gain the ability of scientifical analyses of those texts.

Ph.D.
Biblical Criticism II: This course covers the criticism of New Testament, The problem of versions of the text and method of criticism for New Testament.

Polemics Between Islam and Judaism: This couse is devoted to the History of Apologetics written by both Muslim and Jewish writers and the general themes of apologetics.

Eastern Christianity: This course covers the first theological discussions among Eastern Christian Churches and the Local Churches in Mesopotamia.

Classical Languages II: (Hebrew/Latin): This course is devoted to the more complicated readings in the texts and introduction to the reading of Biblical texts.

SOCIOLOGY OF RELIGION

Head of the Program: Doç. Dr. Yümni SEZEN

Department of sociology of religion opened in 1983, offers undergraduate and graduate (MA and Ph.D.) programs in Sociology of Religion. Over 5 full time faculty members teach about 12 different courses and seminars on various subjects ranging from Theories in Sociology, Research Methods in Sociological Study of Religion, Contemporary Sociological Theories on religion, Introduction to Islamic Sociology and Sociology of Organizations to related sciences of religion such as History, Psychology, Anthropohogy and Philosopy of Religion.

Language of Instruction: **Turkish**

MASTER'S PROGRAM IN SOCIOLOGY OF RELIGION

First Semester	Second Semester
Classical and Modern Readings in Sociology	Classical and Modern Readings in Sociology
Studies of Sociology of Religion in East and West	Studies of Sociology of Religion in East and West
Introduction to History of Religions	Introduction to History of Religions
Psychology of Religion	Psychology of Religion
Research Methods in Sociological Study of Religion	Research Methods in Sociological Study of Religion

Ph.D. PROGRAM IN SOCIOLOGY OF RELIGION

First Semester

Sociological Theories
Problems of Sociology of Religion
Sociology of Institutions
Contemporary Sociological Theories on Religion
Comperative Religion
Philosophy of Religion II
Modern Trends in Islamic Life and Thought

Second Semester

Sociological Theories
Problems of Sociology of Religion
Sociology of Institutions
Contemporary Sociological Theories on Religion
Comperative Religion
Philosophy of Religion II
Modern Trends in Islamic Life and Thought

COURSE DESCRIPTIONS

Classical and Modern Readings in Sociology: This course is devoted to the text readings of classical and modern founders of sociology such as Ibn Khaldun, Comte, Durkheim, Marx, Weber, Parsons etc.

Studies in Sociology of Religion in East and West: This course covers knowledge of literature and works in the field of sociology of religion both in eastern and western countries.

Introduction to History of Religion: This course is devoted to the historical and descriptive analysis of World Religions such as Judaism, Buddhism, Christianity etc.

Psychology of Religion: This course covers history, problem and literature of psychology of religion. It also deals with social psychology of religious behavior of individual in society.

Research Methods in Sociological Study of Religion: This course is devoted to the research techniques and methods of social sciences in general and religio-social sciences in particular. Observation, Description, Comparison, Formation of Typhologies, Explanation are main methodological processes dealt with in this course.

Ph.D.
Sociological Theories: This course covers systematic and problematic thinking of sociologists and their thought's taxonomies according to the different theoritical models.

Problems of Sociology of Religion: This course is devoted to the classic and modern problems in sociology of religion like secularization, types of religious organizations, religious groups, religious institutions, economy and religion, state and religion etc.

Sociology of Institutions: This course is devoted to the sub-disciplines of general sociology and main issues of society. Family, Education, Politics, Law, Economy, Social Organizations and social processes are some of specialized areas of this course.

Comtemporary Sociological Theories on Religion: This course covers main approach models in social scientific Study of Religion in twentieth century's social theory. Some of which are phenomenological, existential, humanistical, critical approaches to the study of religion.

Comperative Religion: This course is devoted to the systematic and problematic topics in world religions. Universals and parallels in religious symbols, rites, rituals, groups and organizations, etc. are main issues dealt with.

Philosophy of Religion II: This course covers the normative and theological aspects of religious attitudes, institutions, groups and organizations. It also deals with the theoritical dimensions of religious experience.

Modern Trends in Islamic Life and Thought: This course is devoted to the schools of thought and religio-social movements of modern and contemporary muslim societies. Intellectual currents and religious, social and cultural movements are main fields of study.

MARMARA ÜNİVERSİTESİ YAYINEVİ

ISLAMIC HISTORY AND ISLAMIC ARTS

Director: Prof. Dr. Mustafa FAYDA

The Department consists of the following four sections: i) Islamic History, ii) Turkish Islamic Literature, iii) Turkish Religious Music, iv) History of Turkish-Islamic Arts.

All of these programs offer both graduate and post-graduate studies in the following fields: Islamic History, Islamic civillaztion, Turkish arts including fine arts, literature and religious music. Studies on Islamic History begins with the pre-Islamic era and with the time of Holy Prophet (s.a.s.), and covers the political and religious as well as the military histories of several Muslim nations together with their institutions.

As for the Islamic Arts, the Turkish contributions to the field are emphasized. Apart from the courses stated there are courses like the Texts of Orientalism, the Texts of Islamic civilisation (in Arabic), and the method of Research, all of which are compulsory for the graduate students.

ISLAMIC HISTORY

The graduate and post-graduate programs give more importance to the era of the Holy Prophet (s.a.s.), and to the periods of Hulefau'r-Rashidin and Umayyed Dynasty including the countries of Ottoman State; Early Islamic and Ottoman Instutions; Sources of the histories of Islam and Ottoman.

MARMARA ÜNİVERSİTESİ YAYINEVİ

MASTER'S PROGRAM IN ISLAMIC HISTORY

First Semester

The Method of Research
Introduction to the Time of the Holy Prophet
Introduction to the Era of Hulefau'r-Rashidin
Introduction to the Umayyed History
Introduction to Islamic Institutions
Introduction to Ottoman Institutions
Introduction to the Sources of the Ottoman History
Texts of the History of Islamic Civilisation
Texts of Orientalism (English, French, German)

Second Semester

The Method of Research
Introduction to the Time of the Holy Prophet
Introduction to the Era of Hulefau'r-Rashidin
Introduction to the Umayyed History
Introduction to Islamic Institutions
Introduction to Ottoman Institutions
Introduction to the Sources of the Ottoman History
Texts of the History of Islamic Civilisation
Texts of Orientalism (English, French, German)

Ph.D. PROGRAM IN ISLAMIC HISTORY

First Semester

The Method of Research
The Time of the Holy Prophet
The Era of Hulefau'r-Rashidin
The Umayyed History
Islamic Institutions
Ottoman Institutions
The Sources of Ottoman History

Second Semester

The Method of Research
The Time of the Holy Prophet
The Era of Hulefau'r-Rashidin
The Umayyed History
Islamic Institutions
Ottoman Institutions
The Sources of Ottoman History

TURKISH-ISLAMIC LITERATURE

This section covers the sources of the history of literature; from the beginning until after Tanzimat studying on the works of poetry and nonpoetry; Religious text schools and technical terms in the Islamic-Turkish literature; Texts of mysticism; Persian.

MARMARA ÜNİVERSİTESİ YAYINEVİ

MASTER'S PROGRAM IN TURKISH-ISLAMIC LITERATURE

First Semester	Second Semester
The Method of Research	The Method of Research
The Method of Orientalism (English, French, German)	The Method of Orientalism (English, French, German)
Turkish-Islamic Literature from the Era of Tanzimat until the Republic	Turkish-Islamic Literature from the Era of Tanzimat until the Republic
Information about Literary Arts	Information about Literary Arts
History of Turkish-Islamic Literature until the Tanzimat Era	History of Turkish-Islamic Literature until the Tanzimat Era
Varieties of Turkish-Islamic Literature	Varieties of Turkish-Islamic Literature
Basis of the Research of Turkish-Islamic Literature	Basis of the Research of Turkish-Islamic Literature
History of Turkish Language	History of Turkish Language

Ph.D PROGRAM IN TURKISH-ISLAMIC LITERATURE

First Semester	Second Semester
The Method of Research	The Method of Research
History of Turkish-Islamic Literature	History of Turkish-Islamic Literature
The Sources of the History of Literature	The Sources of the History of Literature
History of Turkish texts According to Periods	History of Turkish texts According to Periods
The Texts of Mysticism	The Texts of Mysticism
Religious Texts	Religious Texts
Persian	Persian

TURKISH RELIGIOUS MUSIC

History of music; form of Turkish religious music; Texts of Ottoman mysticism; Arabic and Persian songs; Music of Mosque; subject-matter of the thesis of MA and Ph.D. are usually chosen from among the theories of Turkish and Islamic musics.

MARMARA ÜNİVERSİTESİ YAYINEVİ

MASTER'S PROGRAM IN TURKISH RELIGIOUS MUSIC

First Semester

The Method of Research
Turkish Religious Musical Tunes
Turkish Religious Music Arabic Tunes
Introduction to the History of Turkish Religious Music
The Music of Mosque
The Texts for Orientalism (English, French, German)
The Texts for the Ottoman Mysticism
Persian

Second Semester

The Method of Research
Turkish Religious Musical Tunes
Turkish Religious Music Arabic Tunes
Introduction to the History of Turkish Religious Music
The Music of Mosque
The Texts for Orientalism (English, French, German)
The Texts for the Ottoman Mysticism
Persian

Ph.D. PROGRAM IN TURKISH RELIGIOUS MUSIC

First Semester

The Method of Research
The History of Turkish Religious Music
The Music of Mosque
Turkish Religious Musical Forms
Turkish Religious Musical Lyrics
Turkish Religious Music Arabic Lyrics
The Texts for the Ottoman Mysticism
Persian

Second Semester

The Method of Research
The History of Turkish Religious Music
The Music of Mosque
Turkish Religious Musical Forms
Turkish Religious Musical Lyrics
Turkish Religious Music Arabic Lyrics
The Texts for the Ottoman Mysticism
Persian

HISTORY OF TURKISH-ISLAMIC ARTS

Architectural Monuments of Turkish-Islamic Arts; history of calligraphy and fine arts; aesthetique, epigraphy and reconstruction (relief) in Islamic Arts; importance of the heritage of Islamic Arts.

MASTER'S PROGRAM IN HISTORY OF TURKISH-ISLAMIC ARTS

First Semester

The Method of Research
Epigraphy
History of Turkish Calligraphy
History of Turkish-Islamic Architecture
History of Turkish Fine Arts
The Texts of Orientalism (English, French, German)

Second Semester

The Method of Research
Epigraphy
History of Turkish Calligraphy
History of Turkish-Islamic Architecture
History of Turkish Fine Arts
The Texts of Orientalism (English, French, German)

MARMARA ÜNİVERSİTESİ YAYINEVİ

Ph.D. PROGRAM IN HISTORY OF TURKISH-ISLAMIC ARTS

First Semester

The Method of Research
Aesthetic in Islamic Arts
Ottoman Architecture
Schools in Turkish Calligraphy
History of Turkish Book Arts
Paleography of Turkish Islamic Arts History
Relief (Relievo)

Second Semester

The Method of Research
Aesthetic in Islamic Arts
Ottoman Architecture
Schools in Turkish Calligraphy
History of Turkish Book Arts
Paleography of Turkish Islamic Arts History
Relief (Relievo)

MARMARA ÜNİVERSİTESİ 1883

MARMARA ÜNİVERSİTESİ YAYINEVİ

ECONOMIC and ADMINISTRATIVE SCIENCES

Director: Prof. Dr. Ahmet Hayri DURMUŞ

ECONOMICS

Director : Prof. Dr. Orhan SEZGİN

ECONOMIC THEORY

Head of Program: Prof. Dr. Rona TURANLI

The program aims to offer graduate students the latest developments in Theoretical Economics. For this purpose along with the standard courses in Economics, additional courses in statistics and contemporary knowledge in Methodology in Social Sciences are given.

Students outside the Department of Economics are also accepted to the program. These students are required to take the compulsory courses in Economics at the undergraduate level for one or two semesters and enter the finals with the undergraduate students where their papers are evaluated separately. Successful students then continue on with their master's program.

Those accepted to the master's program have to attend courses for two semesters; prepare a master's thesis in the following two semesters and defend their theses orally before a dissertation committee prior to being awarded a master's degree.

Language of Instruction: Turkish

COURSE DESCRIPTIONS

Microeconomic Analysis: Brief introductory course period which covers course material taught in undergraduate level; in depth analysis of Firm Theory (Criticism of Neo-classic firm theory, Average costing and pricing, Bain's limit pricing and latest development in Limit Pricing); Firm Management Theory (Baumal, Marris and O. Williamson).

Method in Economics: The fundamental concepts, such as the terms; science, hypothesis, paradigms, assumptions concerning the philosophy of science are

being observed at first hand. Within the advancing realm of the course the main thoughts of scientific philosophers such as K. Popper, T. Kuhn, J. Lacatus and the basic thoughts of different schools of Economics are being discussed within the frame work of the related terms.

Statistics: Estimation inference. Point Estimation, Interval estimation. Statistical Hypothesis Testing. Nonparametric Methods: Sign, Wilcoxon, Kolmogorov-Smirnov, Spearman and Kendall rank correlation tests. Regression analysis and computer applications.

Monetary Theory: Monetary theory is analysed by taking historical perspectives into consideration. It is explained what the meanings of real and nominal economy are. On the other hand, the students are expected to make some researches on topics determined by the lecturer. Then, it is discussed how the monetary policy tools are and must be practiced with examples.

Schools of Economic Thought: Criteria's to distinguish the schools of thought in economics. Orthodox economics, Post-Keynesian economics and marxian economics with special reference to their methodologies and conceptual framework. An introduction to subdivisions of these schools of thought.

Macroeconomic Analysis: Aggregate supply and aggregate demand analysis. Intermediate level course on mainstream macroeconomics. Introduction to critical analysis of current academic macroeconomics.

Economic Analysis: Orthodox economic analysis. Its logic, methodology and conceptual framework. Basic models of orthodoxy. Introduction to new classical and new Keynesian economics.

MARMARA ÜNİVERSİTESİ

MARMARA ÜNİVERSİTESİ YAYINEVİ

ECONOMIC HISTORY

Head of Program: Prof. Dr. Necla PUR

The main goal of the program is to equip the students with more advanced and specialized knowledge in economic history and to contribute to the development of their abilitiy to initiate and conduct independent research.

Language of Instruction: Turkish

MASTER'S PROGRAM IN ECONOMIC HISTORY

First Semester	Second Semester
European Economic History	History of Economic Thought
Ottoman Economic History	Economic History of Turkish Republican Era
Economic Analysis I	Economic Analysis II
Research Techniques and Methodology	Paleography and Diplomatics II
Paleography and Diplomatics I	

Ph.D PROGRAM IN ECONOMIC HISTORY

First Semester	Second Semester
Economic History of Primitive and Middle Ages	History of Economics of Environment
Ottoman Economic History	Economic History of Turkish Republican Era
Economic Systems	Economic History of New and Near Ages
Methodology of Economic History	Documents of European Economic History
	Documents of Turkish Economic History

COURSE DESCRIPTIONS

European Economic History: The economic history of Europe as the cradle of World's greatest economic, social transformation; interwoven relations between Europe and Turkey throughout the history.

Ottoman Economic History: Economics of Ottoman Empire which is one of the greatest states of the history; economic mind of Ottomans; its effects and contributions to economic thought history.

MARMARA ÜNİVERSİTESİ YAYINEVİ

Economic Analysis: Economic theories, policies in advanced level.

Research Techniques and Methodology: Research techniques for candidates for economic historians; methodology of science in general.

Paleography and Diplomatics: Ottoman alphabet which is used continuously by Ottoman Empire as the key to Ottoman economic history researchs.

History of Economic Thought: Economic thought since the emergence of Economics as a science; economic thought's effects to economic behavior and then economic life. The thought background of today's economics.

Economic History of Turkish Republican Era: Great transformation of Turkish economy; its development process up to date.

Economic History of Primitive and Middle Ages: Characteristics of this long part of the history; effects and contributions of that time to following times.

Ottoman Economic History: Basic characteristics of Ottoman Emplre; theories and critics.

Economic Systems: Liberalism; capitalism; socialism; mixed economic system; their essence and contemporary improvements, changes.

Methodology of Economic History: Theories of the methodology of economics; their essence and critics.

Economic History of Turkish Republican Era: Baic realities of Turkish economy; contemporary situation and problems.

History of Economics of Environment: Environmental pollution as a result of economic activities; ideal interrelation between economics and environment.

Economic History of New and Near Ages: Economic chracteristics of these ages; basic principles of the great transformations lived during this period, its effects and results.

Documents of European Economic History: Documents of economic history of Europe; their contents and importance.

Documents of Turkish Economic History: Documents of Turkish economic history; their contents, approaches and contributions to science.

MARMARA ÜNİVERSİTESİ YAYINEVİ

ECONOMIC POLICY

Head of Program: Prof. Dr. Orhan SEZGİN

The primary objective of the Master's program is to prepare the students for the Ph.D program. It consists of eight one-term courses and a written M.A. dissertation. The M.A. dissertation must demonstrate the student's competence in the selected topic. The students who do not want to continue Ph.D. program may apply the theory and techniques of economics to analysis of the practical problems in a variety of fields as the dissertation.

Admission to the Ph.D. program is limited to students whose Master of Art degree in Economics record shows genuine capacity for advanced work in the field of Economics. The primary objective of the program is to educate students as research economists.

During the first year, students must complete the required works in two fields selected. Each field work consists of two one term "Topics" courses and two one-term "Seminar" courses. At the end of each "seminar" course students submit and defend a short research paper of "Publishable" quality.

Language of Instruction: Turkish

MASTER'S PROGRAM IN ECONOMIC POLICY

First Semester

Turkey's Search for Economic Policies
Exchange Rate Policies
The Turkish Economy
Economic Analysis
Method in Economics
Political Economy
Sectoral Analyses of The Turkish Economy on The Eve of The Customs Union
Statistical Methods

Second Semester

Theories of Interest The Turkish Application
The Turkish Economy
Monetary Economics
Economic Policies in Turkey, through Republic Period
Economic Analysis
Inflation Theories

Ph.D. PROGRAM IN ECONOMIC POLICY

First Semester

Stabilization Policies I
Monetary Policy
Accounting and Analysing of Investment Expenditures
Crises Theories
Global Political Economy I
External Debt Policy

Second Semester

Stabilization Policies II
Global Political Economy II
The Turkish Economy
Econometrics
Welfare Economy

COURSE DESCRIPTIONS

Political Economy: Analysis and assesment of labor-value theories since precapitalist period up to date and their evaluation and consistency in the light of today's capitalist system.

Theories of Interest The Turkish Application: The Classical, Loneable Funds, Keynesian, Portfoli and Monetarist interest theories and Hicks-Hansen Syntesis are taken into account for the evaluation and development of interest theory. 1923-1995 period is chosen for the analysis and assessment of the interest rate policy for Turkey.

Sectoral Analyses of The Turkish Economy on The Eve of The Customs Union: Comparison of the Common Agricultural Policy (CAP) of European Union (EU) with the Turkish Agricultural Policy. And the sectors other than agricultural are analysed in the context of GATT WTO.

Method in Economics: The fundamental concepts, such as terms, science, hypothesis, paradigms, assumptions concerning the philosophy of science are being observed at first hand. Within the advancing realm of the course the main thoughts of scientific philosophers such as K. Popper, T. Kuhn, J. Lakatus and the basic thougts of different schools of Economics are being discussed within the frame work of the related terms.

Exchange Rate Policies: The exchange rate systems are examined in this class. In addition, the efficiency of monetary policy in flexible and inflexible exchange systems are studied. The suggestions for exchange rate policy contemporery Turkish economists are discussed.

Monetary Economics: The quantity of money plays an important role effecting national output, employment, and inflation. The description and explanation of this role occupy the class. It is appropriate to begin the class by analyzing the functions of money and by presenting a practical definition of money that is in common use. On the other hand, the students are expected to make some researches on topics determined by the lecturer.

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Inflation Theories: This course is concerned with definitions of inflation and explanation of schools. The sources of inflation in developing countries are discussed.

The Turkish Economy: This study briefly examines the inward and outward approach to the development policy and instability in the Turkish economy since the early 1960s, both in Turkey and around the world. Liberalization is a much discussed subject. On this basis, attempts to establish the Turkish liberalization program and the liberalization-stabilization program of the 1980s after a brief review of policies and developments in the Turkish economy in the 1960s, 1970s and 1980s are of main concern.

Statistical Methods: Introduction to statistical inference, estmation and hypothesis testing. Applications of chisquare ANOVA, MANOVA, linear correlation and regression analysis. Time series analysis. Computer applications.

Accounting and Analysing of Investment Expenditures: The definition and inclusion of investment expenditures and project analyses developing in Turkey, stage of preparing, and the arising of invesment expenditures.

Stabilization Policies I-II: In this course, the problems of stabilization in developing countries are examined. The basic book of the class is "Başlıca Enflasyon Teorileri ve İstikrar Politikaları (Main Inflation Theories and Stabilization Policicies)" written by Prof. Dr. Osman Z. Orhan. In addition, the students prepare seminar for this class.

Monetary Policy: The course is carried on two ways: theoritcaly and practicaly. First, the theory of monetary policy is studied. Then, it is discussed how the monetary policy tools are and must be practiced with examples.

Crises Theories: As economic crises are inevitable for the capitalist mode of production causes of them must be taken into consideration theoretically. Course includes the causes of crises for the last three centuries in the light of Laisse-faire and Right-Wing (Keynesian) tradition and the underconsumption, falling rate of profit and profit squezze theories.

Global Political Economy: Interaction of economics and politics are the starting point of the course. Analysis the relationship between economic affluence and types as well as the relationship between politics and economic growth.

External Debt Policy: The total external debt of developing countries is made up of different types of external debt and external debt management.

Econometrics: Estimation Theory, Violation of the basic assumptions. Identification problem. Simultaneous Equation Systems. Nonlinear Regression Models and Herative Estimation Methods. Computer applications.

The Turkish Economy: Main Economic Indicators

- GNP
- Sectoral and Regional Distribution of Investment Incentive
- Foreign Direct Investment
- Developments in Domestic Labor Market
- Production in Manufacturing Industry
- Foreign Trade
- Price Indices and Monetary Indicators
- Credit and Money Supply
- Public Debts

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INTERNATIONAL ECONOMICS

Head of Program: Assoc. Prof. Dr. Mülit AKYÜZ

The post graduate MA program of International Economics is a subdepartment in Department of Economics. The MA Program consists of two academic years. First year has been planned as a teaching year and consists of two semesters. Each semester has nine must courses. Those who complete the courses in first year, can start to work on their master's theses in second year.

The post graduate PH.D program of International Economics is a subdepartment in Department of Economics. The Program consists of two academic years. First year has been planned as a teaching year and consists of two semesters. Each semester has seven must courses. Those who complete two-semester's courses, should take an comprehensive examination to begin to the Ph.D. theses.

MASTER'S and Ph.D. PROGRAMS IN INTERNATIONAL ECONOMICS

First Semester	Second Semester
Economic Analysis I	Economic Analysis II
International Banking I	International Banking II
Delivery and Payment Methods in Foreign Trade	Economic Case Studies
Customs Unions	World Economy
Foreign Trade: Legislation and Practice	Economic Integration
Exchange and Banking Operations	Econometric Methods
Money Management	Foreign Economic Relations
Economic Indicators	

COURSE DESCRIPTIONS

Customs Unions: Preferential trading arrangements, the nature of preferential trading, the theory of the second best, an outline of the theory of customs unions, trade creation and trade diversion, consumption effects, dynamic effects of customs unions, the common external tariff, common agricultural policy, preferential trading among developing economies, Turkey-EC relations.

Economic Analysis I-II: This course mainly focus on the theoretical framework of the basic schools of the economic thought. It covers those schools of economics, such as Classical Economists, Marx, Neo-Classics, Keynesians, Post-Keynesians.

Economic Indicators: The course provides a) correct descriptions of main economic indicators developed by Turkish Government agencies and private and international organizations and b) briefly describes how these economic indicators are used to analyse the economy and provides some background material on using economic indicators. 1. Conjunctural movements, 2. GNP and Growth Rate, 3. Technology and Productivity, 4. Population, Employment, and the wages, 4. Monetary Aggregates, 5. Central Bank's Balance Sheet, 6. Public Sector Borrowing Rate, 7. Inflation and Related Indicators, 8. Foreign Trade, Balance of Payments, and Exchange Rates, 9. Interdependence between main economic indicators, and elasticities.

Delivery and Payment Methods in Foreign Trade: Following subjects about delivery and payment methods in foreign trade (International Rules, International Applications) The responsibilities of The Concerned Parties Within the Framework of international laws; The Legal Aspects and importance of Foreign Trade Contracts; Study and analysis of Risks Born In Case of Violation of Delivery or Payment.

Exchange and Banking Operations: International Chamber of Commerce (Brochure (U.C.P.) No. 500 Explain and Analysis); Letter of Guarantee Brochure No. 325; Collections I.C.C. No. 322) Internationalonal at Commerce; Payment Terms (Cash Against Goods, Cash Against Documents, Letter of Credits (Confirm, Unconfirm, Deferred Payment L/C, Red Clause L/C, Green Clause L/C; Sight L/C; Trasferable L/C; Back to Back L/C, Acceptance L/C, Letter of Credits, Check List; Letter of Credits Analysis; Incoterms; Export and Import Systems in Turkey.

Money Management: An investment is a commitment of money that is expected to generate additional money. Every investment entails some degree of risk; it requires a present certain sacrifice for a future uncertain benefit. This course describes various ways to select the investments that will provide the maximum future return at an acceptable level of risk. It examines such marketable financial instruments as common stocks, bonds, options, futures contracts and other investments, as well as the risks associated with each. It analyzes these assets, the markets in which they are traded, the valuation of the assets, the construction of a diversified portfolio, and other important investment management techniques: Contents: Expected return and risk; Money market securities; Capital market securities; Diversification and portfolio analysis; Equity valuation; Bond valuation; Puts and Calls; Futures Contracts.

International Banking: Introduction, activities and operations in international banking, EURO markets, country risk, syndication credits, ECU bond markets, Free zons and off-shore banking, off-shore banking in Turkey, Franchising, Venture Capital.

Foreign Trade: Legislation and Practice: Rules and practices of International chambers of commerce; preparing and controlling International Contracts, explanation and practicing of terms of delivery and payment; Turkish export and import regulations.

International Banking I-II: Introduction, activities and operations in international banking, EURO markets, country risk, syndication credits, ECU bond markets; Free zones and offshore banking, off-shore banking in Turkey, Franchising, Venture Capital.

Economic Integration: Customs Unions: Trade-creating customs unions, trade-diverting customs unions, the theory of the second best and other static welfare effects of customs unions, dynamic benefits from customs unions, history of attempts at economic integration.

Economic Analysis: This course mainly focuses on the theoretical framework of the basic schools of the economic thought. It covers those schools of economics, such as Classical Economists, Marx, Neo-Classics, Keynesians, Post-Keynesians.

Economic Case Studies: The course provides: a) correct descriptions of main economic indicators developed by Turkish Government agencies and private and international organizations, and b) briefly describes how these economic indicators are used to analyse the economy and provides some background material on using economic indicators. 1. Conjunctural movements, 2. GNP and Growth Rate, 3. Technology and Productivity, 4. Population, Employment, and the wages, 4. Monetary Aggregates, 5. Central Bank's Balance Sheet, 6. Public Sector Borrowing Rate, 7. Inflation and Related Indicators, 8. Foreign Trade, Balance of Payments, and Exchange Rates, 9. Interdependence between main economic indicators, and elasticities.

World Economy: Concept, Perspectives and their appraisal; Main schools of Thought; The Post-War Political Economy; Money, Finance and Macroeconomic Relations; Transnational Corporations and Global Production; Trade and Protectionism; North, South Relations; American Hegomony and international order.

International Economic Relations: International customs, rules and practices connected with International Chamber of Commerce's Brochures; Explanation and analyzing of international payment terms (prefinancing, letter of credit, cash against documents, cash against goods); International financial instruments, Economic blocs and related institutions.

Econometric Methods: Review of Single Equation Regression Models, Model Selection and Specification Errors, Simultaneous Equation Models, The Identification Problem, Simultaneous Equation Methods, Readings in Econometrics and Computer Applications.

MARMARA ÜNİVERSİTESİ YAYINEVİ

DEVELOPMENT ECONOMICS AND ECONOMIC GROWTH

Head of Program: Prof. Dr. Tamer İŞGÜDEN

This program is administrated by Economic Development and International Economics section, in Department of Economics. MA Program consists of two years. First year has been planned as a teaching year and consists of two semesters. Each semester has four must and four elective courses. Those who complete the courses second year starts to study on their master thesis subject. Ph.D. program's first year has been planned as a teaching year and consists of two semesters. At the end of the first year those who have completed the courses, should take a comprehensive exam to be able to begin their Ph.D. thesis. MA and Ph.D programs have the same courses. Ph.D courses are more complex and extended versions of the MA program.

Language of Instruction: Turkish

MASTER'S and Ph.D. PROGRAMS IN ECONOMICS AND ECONOMIC GROWTH

First Semester	Second Semester
Sociology of Development	Economic Analysis
Development Economics	Methodology
Growth Theories	Economic Case Analysis
Development Policies in Turkey	Price Theory
	Econometrics
	Statistics

COURSE DESCRIPTIONS

Development Economics: Development Economics courses are mainly concerned with the problematic development in historical perspective. With this perspective, the course puts the main emphasize on the paradigms of economic development and its linkages which other social science disciplines, such as sociology and anthropology. With this general framework the course provides training in, i) Historical origin of development and underdevelopment, ii) National and international aspects of de-

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velopment, ii) Effects of the development process on the different parts of the societies, iii) Turkey's development experience and Turkish development literature.

Economic Analysis: This course mainly focuses on the theoretical framework of the basic schools of the economic thought. It covers those schools of economics, such as Classical Economists, Marx, Neo-Classics, Keynesians, Post-Keynesians.

Growth Theories: Growth has been one of the most outstanding fields of Classical Economics. In this course, Classical, Market, Post-Keynesian and Neo-Classical growth theories are being discussed.

Development Policies in Turkey: In this course some aspects of the Turkish economy are taken up, such as national income and growth, balance of payments problems, the developments of tourism, banking, education and health services over the periods, the practice of market economy, development planing, Turkeys international economic relations, the effects of foreign openness and advantages of foreign competition.

Price Theory: In this course, lectures are mainly based on orthodox microeconomics. In that contex theory of firm, theory of perfect competion, basic product market structures, (including monopoly, monopolistic competion, oligopol), factor pricing and factor markets.

Econometrics: This course includes Estimation Theory, Violation Basic Assumptions, Identification Problem, Simultaneous Equation Systems, Nonlinear Regression Models, Computer Applications, Autoregressive Models, Estimation Subject to Restriction, SUR Models, Readings in Econometrics.

Statistics: This course includes stastical inference, estimation and hypothesis. Applications of chi square, ANOVA, MANOVA, Linear corelation and regression analysis. Time series analysis and Computer applications.

Methodology in Economics: The fundamental concepts, such as the terms, science, hypothesis, paradigms, assumptions concerning the philosophy of science are being observed at first hand. Within the advancing realm of the course the main thoughts of scientific philosophers such as K. Popper, T. Kuhn, J. Lacatus and the basic thoughts of different schools of Economics are being discussed within the frame work of the related terms.

Economic Case Studies: The course provides a) correct descriptions of main economic indicators developed by Turkish Government agencies and private and international organizations, and b) briefly describes how these economic indicators are used to analyse the economy and provides some background material on using economic indicators. 1. Conjunctural movements, 2. GNP and Growth Rate, 3. Technology and Productivity, 4. Population, Employment, and the wages, 4. Monetary Aggregates, 5. Central Bank's Balance Sheet, 6. Public Sector Borrowing Rate, 7. In-

flation and Related Indicators, 8. Foreign Trade, balance of Payments, and Exchange Rates, 9. Interdependence between main economic indicators, and elasticities.

Sociology of Development: Modern science; economics of primitive societies; economics of nomadic societies; peasant economics; economics of town; economics of metropolis.

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FINANCE

Director : Prof. Dr. Ömer Faruk BATIREL

FISCAL ECONOMY

Head of Program: Prof. Dr. Ömer Faruk BATIREL

Language of Instruction: Turkish

MASTER'S PROGRAM IN FISCAL ECONOMY

First Semester

Reform in Turkish Tax System
Fiscal Policy in Stabilization Policies
Turkey's Internal and External Debts
State Economic Enterprises and Privatization in Turkey

Second Semester

Reform in Turkish Tax System
Fiscal Policy in Stabilization Policies
Turkey's Internal and External Debts
State Economic Enterprises and Privatization in Turkey

COURSE DESCRIPTIONS

Reform in Turkish Tax System: The Turkish tax system: Income Tax, Corporation Tax, Customs Tax, Added Value Tax, Property Tax, Wealth Tax, etc. The Reform of Turkish Income Taxes. Problems in changing the Tax Law. The future of tax Reform.

Fiscal Policy in Stabilization Policies: Stabilization Policy; Prospects and Problems about the developing countries. Some economic stabilization theories. Policy making under uncertainty. IMF Policies in devloping countries. Other views of the effectiveness of government policy.

Turkey's Internal and External Debts: This course includes Turkey's debt policy; Public debt, debt management internal and external depts of Turkey. The relationship between the public dept and the budget deficit. The reason of public debt, the types of public debt, the increase of debts (internal and external debts of Turkey).

State Economic Enterprises and Privatization in Turkey: The need for State Economic Enterprises, National monopolies and externalities. Divison of State Economic Enterprises in Turkey. Public Economic Cooperations. Historical overview of State Economic Enterprises in Turkey.

Privatization: A Conceptual framework, Privatization in developg countries. The case of privatization in Turkey and in other countries.

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THEORY OF PUBLIC FINANCE

The main goal of the graduate program leading to the MA degree in Theory of Public Finance is to equip the students with more advanced and specialized knowledge in public finance. The MA program consists of a two-semester study on theory, research methodology and courses in the areas of specialization plus a master's thesis. The program is implemented by the Department of Public Finance.

The same courses are offered for the Ph.D. Program to the instructors and researchers in order to promote the discipline through original research.

MASTER'S PROGRAM IN THEORY OF PUBLIC FINANCE

First Semester

Public Sector Economics I
Defense Services I
Finance of Education and Health Services I
Finance of Local Governments in the World and in Turkey I

Second Semester

Public Sector Economics II
Defense Services II
Finance of Education and Health Services II
Finance of Local Governments in the World and in Turkey II
Research Methodology

COURSE DESCRIPTIONS

Public Sector Economics I-II: Need for public sector; nature and scope of public sector; budget functions (allocation, distribution, stabilization); public goods theory; public choice theory; presence of external effects in consumption and production; Pareto optimality and public goods; cost-benefit analysis.

Defense Services I-II: Major issues; cost effectiveness in weapons design; modernizing strategic forces; industrial impact; effects of productivity growth; growth of defense expenditures.

Finance of Education and Health Services I-II: Policy issues; public versus private education; cost-benefit analysis of education (estimating benefits, costs and rates of return). Health insurance; public versus private provision of health services; employer and employee contributions; effects of health services on human capital formation.

Finance of Local Governments in the World and in Turkey I-II: Intergovernmental fiscal relations, local public goods; revenue sharing between central and local governments; local government finance in Turkey; Special Provincial Administrations; Municipalities; Villages and their sources of revenue.

Research Methodology: Key epistemological concepts; logical positivism; the critics of logical positivist epistemology such as Kuhn and Feyerabend.

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BUSINESS ADMINISTRATION

Director: Prof. Dr. Tunç EREM

ACCOUNTING and FINANCE

Head of Program: Prof. Dr. Tunç EREM

Graduate program in Accounting-Finance covers MA and Ph.D programs. In these programs, theoretic and empirical subjects which attached accounting and finance are examined in detail.

Students have one educational period for lessons and then, they have one year for their thesis in the MA program. Thesis period is three years in the Ph.D program.

Language of Instruction: Turkish

MASTER'S PROGRAM IN ACCOUNTING-FINANCE

First Semester	Second Semester
Scientific Working and Writing Methods	Accounting Systems and Organization
Ending Operations and Financial Statements	Empirical Accounting and Auditing Standards
Cost Systems and Organization	Financial Statements Analysis
Financial Statements Consolidation	Portfolio Management
Financial Management	Computerized Management Accounting
Money and Capital Markets	Cost and Profit Analysis
Accounting Standarts	

Ph.D. PROGRAM IN ACCOUNTING-FINANCE

First Semester	Second Semester
International Finance I	International Finance II
Cost Systems and Organization	Capital Market Analysis and Portfolio Management
Accounting Organization in the Tourism Administrations	Bank Administration and Accounting
Financial Statement Consolidation	Corporation's Auditing
International Financial Corporations	Accounting Organization in the Transportation Enterprises

COURSE DESCRIPTIONS

Scientific Working and Writing Methods: The preparation to scientific work; the ordering of outline, the concepts of introduction, progression and finish divisions in a scientific work; the preparation to reference and index in a written work; discussion of scientific research methods; the examination of literature research.

Ending Operations and Financial Statements: The causes of the operations in the and of period; the concepts of settlement, final balance sheet and annul opening balance in accounting; the examination of ending inventory and evaluation in assets and liabilities; the ordering of balance sheet and income statement according to the uniform accounting plan.

Cost Systems and Organization: The fundamental concepts of accounting methods to the cost of manufactured goods; the other concepts of ordering cost method, phase cost method, actual cost, standart cost and full cost methods; the comparison of the costing methods; the discussion of cost plus pricing method in the cost accounting; the examination of organization cost and organizational structure.

Financial Statements Consolidation: The ordering and consolidating of fundamental and auxiliary statements; the concepts of balance sheet, income statement, fund flow and cash flow statements and cost of goods sold statement; the comparison of these statements to each other; the evaluation of financial condition and performance of a firm; the examination of liquidity, debt and profitability conditions of a firm.

Financial Management: The examination of financial position according to the financial statements of a firm; the concepts of financial books; financial budget and financial expenses; the evaluation of financial condition and performance as a financial manager in a firm; the comparison of the current ratio, acid - test ratio, receivable turn over ratio, inventory turnover ratio; the examination of management's plans for financing.

Money and Capital Markets: The concepts of currency control, reserve requirements, open-market operations rediscount-rate policy, selective credit controls, tight money policy securities and stock exchange; the evaluation of the central bank's role; fieldwork research in short and long run interest rate; buying or selling bond haldings by the central bank in the deflation or inflation conditions; the development of stock exchange and equity markets.

Accounting Standards: The development of harmonization of accounting with European Countries and Turkey; the concepts of uniform accounting records and statements; the examination of 33 articles of accounting standards and regulations in European Community.

Accounting Systems and Organization: The concepts of accounting books; accounting equation; accounting period and accounting valvation; the examination of

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depreciation methods, FIFO and LIFO methods, contra account system; fieldwork research in accounting systems; the evaluation of organizational structure.

Empirical Accounting and Auditing Standarts: The concepts of fundamental and auxiliary statements, auditing, audit report and auditing standarts; the evaluation of empirical accounting and cluster sampling; the examination of auditor and his function; the transmission of financial statements to the interested.

Financial Statements Analysis: The concepts of balance sheet, income statement, fund flow and cash flow statements; the examination of liquidity, debt and profitability conditions of a firm; the comparison of financial statements; the discussion of cash, receivables, inventories, equipment, assets and liabilities conditions as monitoring financial statements of a firm.

Portfolio Management: The fundamental concepts of portfolio composition, risk distribution, capital movements; the development of stock exchange and secondary market; fieldwork research in portfolio management; the examination of all assets returns; the comparison of returns and risks of all assets and securities incomes.

Accounting Law: The fundamental concepts amalgamation, merger, liquidation, consolidation, benkruptcy and legal action among the business concerns; fieldwork research in accounting law; the examination to solve disaggrements among the business enterprises; the evaluation of accountability as legal of firms; the order of bill and commercial paper according to law.

Computerized Management Accounting: The development of computarized accounting in management porcess; the examination of computerized accounting; the fundamental concepts of a ledger and journal account records, adjustment of erroneous entries in computer; the evaluation of alternative strategies by a manager.

Cost and Profit Analysis: The fundamental concepts of cost of capital, cost-benefit analysis; fieldwork research in cost account and profit; the comparison of costs and profits a business enterprises; the examination of increasing or decreasing returns to scale; the evaluation of cost and profit of good sold.

International Finance I: The examination of capital flows in beween developed and developing countries; the concepts of exchange rate policies, arbitrage, speculation, interest rate; fieldwork research in international finance; the evaluation of world markets globalization; the development of full capital movements and convertibility of capital accounts in the world; the discussion of new international finance techniques: forward markets, futures operations and options.

Cost Systems and Organisation: The fundamental concept of accounting methods to the cost of manufactured goods; the discussion of ordering cost method, phase cost, actual cost, full cost and standart cost methods; the comparation of

these methods; the evaluation of cost plus pricing method in the cost accounting; the examination of organization cost and organizational structure in detail.

Accounting Organization in the Tourism Administrations: The development of accounting organization in tourism administrations, the examination of accounting department in a tourism firm; the evaluation of income and expense in tourism; fieldwork research in accounting organization; the concepts of incentive payments and pricing in tourism, general journal, general ledger, general overhead in a tourism firm; the comparison of organization costs and accounting organizations of a tourism firm among the other administration.

Financial Statements Consolidation: The ordering and consolidating of fundamental and auxiliary statements; the concepts of balance sheet, income statement, fund flow and cash flow statements and cost of goods sold statements; the comparison of these statements to each other; the evaluation of financial condition and performance of a firm; the examination of liquidity, debt and profitability conditions in detail of a firm.

International Financial Corporations: The development of financial feasibilities; the concept of short and long run foreign lending, financial investment and world Bank; the examination of mobilizing funds by attracting financing for individual projects and by developing local capital markets; fieldwork research in international finance and differences between World Bank and International Financial Corporations; the evaluation of financing of private sector projects in developing countries.

International Finance II: The concepts of exchange rate policies, arbitrage, speculation, interestrate; the examination of capital flows in the world in detail; fieldwork research in international finance; the development of capital movements and convertibility of capital accounts in the world in detail; the discussion of new international finance techniques in the most detail.

Capital Market Analysis and Portfolio Management: The fundamental concepts of capital movements, securities and composition of portfolio; the development of stock exchange in the developing countries; fieldwork research in capital market and portfolio management; the examination to returns and risks of all assets; the evaluation of risk distribution.

Bank Administration and Accounting: The fundamental concepts of bank deposit, bank credit, bank discount; the development of banking system; the examination of bank statements and bank accounts; the evaluation of business administration in banking; the discussion of cash, receivables, liquidity, inventories, equipment, buildings conditions in banking.

Corporation's Auditing: The concepts of auditing, examinating statements; the development of auditing techniques; the examination of accounting records in limited

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partnership and incorporated company; the comparison of internal and external auditing.

Accounting Organization in the Transportation Enterprises: The concepts of accounting books, accounting period and accounting valuation in the transportation companies; the comparison of balance sheet, income statement and other auxiliary statements in a transportation company; the development of accounting department in this sector.

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QUANTITATIVE METHODS

Head of Program: Prof. Dr. Erol YARIZ

The department of Management of Marmara University offers a graduate program leading to the M.A. and Ph.D. degrees in Quantitative Methods. Students in this program have the opportunity to tailor their academic programs of study to be consistent with their individual career objectives. Programs can be designed to prepare graduates for careers in teaching and research, for careers emphasizing the application of Quantitative Methods or for careers requiring the development of new quantitative methodology. Main objectives of the M.A. and Ph.D. programs encourage the graduates earning quantitative thinking abilities about economy, business and social sciences, improving the abilities about system planning, management and management system and building mathematical models of problems in social sciences. Morever,motivation intellectual ability for graduate work, breadth of general knowledge, understanding of major field, ability to analyze ideas, using computers for general purposes are other objectives of these programs.

The masters degree program requires 18 hours of course work. There are no required oral and written examinations after finishing all coursework studies but a thesis is required. For a student it normally takes 2 years to complete the master's degree program, one year for coursework, and one year for thesis.

Among the requiremenets for the Ph.D. are a minimum of 18 hours of graduatework, reading knowledge in one foreign language, passing an oral qualifying examination after taking all courses, writing a thesis and passing a final oral examination based on the thesis. Minimum of four years are required to complete the Ph.D. program and most students spend five years in this program; two years to complete the coursework studies and three years to complete the thesis.

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MASTER'S PROGRAM IN QUANTITATIVE METHODS

First Semester

Probability Theory
Building Mathematical Models I
Business Management
Fuzzy Mathematics with Applications I
Multivariate Statistical Analysis I

Second Semester

Mathematical Statistics
Building Mathematical Models II
Organization Theory
Fuzzy Mathematics with Applications II
Multivariate Statistical Analysis II

COURSE DESCRIPTIONS

Probability Theory: Definition of probability, sample space and events, measurable spaces, basic rules of probability, counting techniques, bayes theorem, random variables and probability distributions, expectations, generating and characteristic function, simple random sampling, other probability sampling schemes, sampling distributions.

Mathematical Statistics: Distribution of functions of random variables, limiting distributions, stochastic convergence, the central limit theorem, point estimation, interval estimation, statistical hypotheses testing, nonparametric methods, multivariate normal distribution, quadratic forms, the independence of certain quadratic forms.

Building Mathematical Models I: Simulation of management systems: Monte Carlo method, waiting line simulation model, inventory simulation model, new product planning advantages and limitations of simulation, simulation languagues.

Building Mathematical Models II: Principles of probability and bayesian decision theory as they apply to business decision making. Binary data systems, sequential dynamics. Modeling, intuition in management and science. A comparison of game theory and decision theory. Invariant decision rules.

Business Management: Primary business functions such as marketing, production, finance and their management under an organizational framework; their interrelationships and institutional make up.

Organization Theory: The concept of organization. Formal organization; theoretical development; typologies organizations. The social structure of organization; informal organizations; culture and socialization process, small groups, models of organization; organizational dynamics and effectiveness; communication; organizational development and change.

Fuzzy Mathematics with Applications I: Quantification of ambiguity, fuzzy sets, crisp sets, operations with fuzzy sets, -cuts and the extension principle, operations with fuzzy numbers, fuzzy propositions, fuzzy relations, basic properties of fuzzy re-

lations, fuzzy relations and fuzzy reasoning, fuzzy relational equations, similarity relations and fuzzy order relations.

Fuzzy Mathematics With Applications II: Fuzzy regression models: Linear posibility systems, linear posibility regression model, examples of applications. Statistical decision making: Fuzzy probability and fuzzy entropy, fuzzy-bayes decision making, fuzzy discrimination methods. Fuzzy quantification theory: characterics of fuzzy quantification theory, fuzzy quantification theory I, II, III and IV. Fuzzy mathematical programming: Basic concept and general formulation, fuzzy linear programming.

Multivariate Statistical Analysis I: Some elementary statistical concepts. Matrix algebra, samples from the multivariate normal population. The multivariate normal distribution, inferences about a mean vector. Comparisons of several multivariate means. Multivariate linear regression analysis. Multivariate multiple regression analysis. Principles and methods of multivariate least square estimation. Tests of hypotheses in means.

Multivariate Statistical Analysis II: Inferences from covariance matrices. The structure of multivariate observations: 1. Principle components, the structure of multivariate observations: 2. Factor analysis, canonical correlation analysis, discrimination and classification, clustering.

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LABOR ECONOMICS AND INDUSTRIAL RELATIONS

Head of Program: Prof. Dr. Ali Rıza OKUR

The main purpose of the Department of Labor Economics and Industrial Relations is to equip the students with necessary skills and knowledge in order to enable to bring rational solutions to the problems of working life. They are directed to be qualified personnel of the future whose qualifications match the contemporary economical necessities of Turkey.

The program continues 2 years. In the first year, those courses classified as compulsary or elective described below are given to the students and the following year is for the preparation of master thesis about the topics related to industrial relations under the guidance of one of the department's professors.

Language of Instruction: Turkish

MASTER'S PROGRAM IN LABOR ECONOMICS

First Semester

Research Methods
The Analysis of Employment and Wage
Contemporary Problems of Private Labor Law
Problems of Technology and Employment
Society and Work
Trade Unions and Politics

Second Semester

Political Economics
Contemporary Issues of Collective Labor Law
Society and Politics
Social Politics
Economics of Collective Bargaining
Social Structure of Turkey and Social Planning

COURSE DESCRIPTIONS

The Analysis of Employment and Wage: The aim of the course is to investigate wage concept and its importance and to discuss wage systems based on time and product and job evaluation systems.

Contemporary Problems of Private Labor Law: Subject matters such as employment security, benefits in kind programs and income maintenance programs are dis-

cussed by the preparation of seminars and the different ways of solutions to the related contemporary problems are investigated.

Problems of Technology and Employment: This course deals with the influence of new technologies on employment and it investigates to which of those influences the trade unions are most open. Result of the studies and researches conducted in this area are discussed.

Society and Work: The major focus of this seminar is to study the interrelations and interactions of social structure and structural aspects of working life. The main study area is Turkey. The students of this seminar have to prepare papers for discussion, during the course.

Trade Unions and Politics: The investigated areas are listed as follows: The principles of trade unions' establishment. The activities of trade unions. Free and forbidden activities of trade unions. The concept of politics. The institutions and the individuals who are forbidden to do politics. The relationships between trade unions and the politics. Professional activities. The concept of politics. The activities of trade unions can not be taken in the case of the forbidden politics.

Social Structure of Turkey and Social Planning: The aim of the course is to discuss the population structure of Turkey and the topics such as employment, placement, wage distribution, educational services and health.

Contemporary Issues of Collective Labor Law: Related to the contemporary problems of Turkish Industrial Relations, the following topics are discussed: Unions of the officials, prohibitions of strike, collective contract making and benefit taking and mediators. By the assignment of seminars to the students, the development of their ability for scientific research is encouraged.

Social Politics: This course evaluates the concept of social politics, development trends in industrial societies, its goals and political means. Those topics such as work factor analysis with social security network, wealth and income distribution, labor market structure, income theories, job evaluation are the other important subjects of the course. Relationship between government/economical systems and social politics are also investigated.

The Economics of Collective Bargaining: At first, some of the theoretical explanations and the developments about the process of trade unions are taken into consideration and then, demand and the supply of the trade unions' services plus the factors which influence them are analysed including the theory of economics. The effective collective bargaining and the activities of the strike are investigated by taking the models of collective bargaining and the strike into consideration. The applications of the collective bargaining and the strike of the trade unions are compared between developed and developing countries. The collective bargaining and the strate-

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gies of strike pursued by the trade unions against the applied economical politics are investigated.

Society and Politics: In this course, the social dimensions of politics are overlooked by investigating following major topics: the social foundations of political regimes and the organizations, political culture and socialization, different socia classes' and societies participation into politics and the influence of participation into politics on government, the effects of politics on the other levels of the society (economics, demography and social organizations etc.). The subjects are discussed by giving the examples from Turkey and the world and from the history and the present besides the examples from the theoretical levels.

MASTER'S PROGRAM IN INDUSTRIAL RELATIONS

First Semester

Research Methods
Management
Basic Principles of Labor Law
Organizational Behavior
Services and Idea Marketing
Society and Work

Second Semester

Human Resources Management
Basic Principles of Social Security
Problems of Technology and Employment
Total Quality Management
International Organizations and Human Resource
Occupational Psychology

COURSE DESCRIPTIONS

Management: The theory of management is studied by taking "organizing" as a main topic and the new management philosophies are emphasised. In addition to that, changes in management practices influenced by modified production technologies will be discussed.

Basic Principles of Social Security: This course covers the concept of social security by analysing the universal dimensions, contemporary principles, financial issues of social security. The system of Turkish social security is investigated by including the workers, civil servants and the employees who work independently. Unification of the insured services and social aids are also discussed.

Problems of Technology and Employment: This course deals with the influence of new technologies on employment and it investigates to which of those influences the trade unions are most open. Result of the studies and researches conducted in this area are discussed.

Occupational Psychology: The human relations are investigated within the process of production of and the distribution of goods and services and the personnel selection, training, development and the career planning are discussed. The condi-

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tions necessary for the establishment of a healthy and productive work environment are investigated.

Basic Principles of Labor Law: This course covers the following issues: The principle of employees, the concepts of employer-employee-workplace, labor law and its capacity, the service contract, its formation and abrogation and the results of the abrogation.

Total Quality Management: The main goals for this course are to focus on achieving customer satisfaction, to seek continous and longterm improvement in all of the organizational process and output and to take steps to assure the full involvement as entire workforce in improving quality.

Organizational Behavior: This course emphasizes the meaning and the basic concepts of organizational behavior and investigates the topics of employees motivation, leadership, communication and the group dynamics. The ways of motivating the people to work in a more harmonious and satisfactory work conditions are also discussed.

International Organizations and Human Resources: The establishment of international organizations, the development after the second world war, the structure and the institutionalization of the international organizations as international private law (their authorities and the structures) are discussed. Universal oriented international organizations which belong to the United Nations and the other export institutions, the features of "International Labor Organization" (ILO) as an export institution with some of the international pacts prepared by this institution are investigated especially in the contents of the masters' program. After the continental and the regional organizations are generally described, the international and the above mentioned international organizations unique to Europe will be investigated.

Society and Work: The major focus of this seminar is to study the interrelations and interactions of social structure and structural aspects of working life. The main study area is Turkey. The students of this seminar have to prepare papers for discussion, during the course.

Service and Idea Marketing: This course aims to give an overall perspective of "marketing information" being based on scientific thinking, exercises. The course will try to clarify the "marketing knowledge" by providing basic principles and the models of marketing with specific concepts like "marketing mix", "segmentation" and "positioning". Marketing is taken as a philosophy and the way of life. Yet, the specific area in consideration will be service and idea marketing. The objective of the course is not to create marketers but to make use of the philosophy and the information of marketing providing the free application of it to various positions and projects.

Human Resources Management: The assesment of human resources management is made through the perspective of new management approaches and the ma-

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jor topics of human resources management are investigated based on those subject matters: Historical development of human resources management, place of this department in general organization chart, functions of the human resources management (selection, placement, training, development, job evaluation and compensation, performance appraisal).

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PUBLIC ADMINISTRATION (French)

POLITICAL and SOCIAL SCIENCES

Head of Program: Prof. Dr. Yaşar GÜRBÜZ

Department of Public Administration offers undergraduate and graduate (M.A and Ph.D.) programs in Political and Social Sciences. M.A. program is in French and Ph.D. program in Turkish. 17 full-time Turk and French faculty members and about 20 visiting French professors teach about 35 different courses and seminars on various subjects such as Introduction to Political Science Public Finance, International Law, International Economics, Economic Policy, History of Political Ideas, Economics, Sociology etc.

Department has a common program in first and second years. The third and fourth years are divided into two majors: Economics-Finance and Management of Human Resources.

Language of Instruction: French and Turkish

MASTER'S PROGRAM IN POLITICAL AND SOCIAL SCIENCES

First Semester	Second Semester
Political Parties	International Issues
Comparative Politics	Comparative Politics
Europe and Balkans	Water Resources and Ecology
Research Techniques	Renovation in Local Governments
Caucasus	

Ph.D. PROGRAM IN POLITICAL AND SOCIAL SCIENCES

First Semester	Second Semester
Turkic World	Turkish Geopolitics
New World Order	European Union and Turkey
Nationalism	Religion and Democracy
Political Theories	Information and Society

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COURSE DESCRIPTIONS

International Issues: This course covers current issues of international politics, such as conflicts in Caucasus, problems of Russian Federation, Middle Eastern problems, Turkish-Greek issues etc.

New World Order: This course studies principal international tendencies appeared after the collapse of USSR. Globalization, new world order or new world disorder, US and Russian military doctrines are the main topics studied under this title.

Turkic World: Different Turkic groups of ex USSR are studied in this course. Mainly central Asian and Caucasian Turkic communities and states are covered by the course; Such as Azerbaidjan, Uzbekistan, Turkmenistan, Kirghizistan, Kazakistan etc.

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ECONOMETRICS

Director : Prof. Dr. Münevver TURANLI

ECONOMETRICS

Head of Program : Prof. Dr. Selahattin GÜRİŞ

Department of Econometrics offers a graduate program in Econometrics: both Master's and Doctorate degrees are in Econometrics.

The main objective of the master's program is to give students high-level training in basic theorethical and applied branches of Econometrics to enable them to conduct independent research.

The Ph.D program is structured with the objective of preparing students for careers in university teaching and research in econometric methods.

Language of Instruction: Turkish

MASTER'S PROGRAM IN ECONOMETRICS

First Semester	Second Semester
Applied Econometrics I	Applied Econometrics II
Econometrics I	Econometrics II
Mathematical Economics	Input-Output Analysis
Microeconomic Analysis I	Macroeconomic Analysis II
Statistical Analysis	Non-Linear Models
Desicion Making Techniques I	Decision Making Techniques II

PH.D PROGRAM IN ECONOMETRICS

First Semester	Second Semester
Econometric Models I	Econometric Models II
Applied Econometrics I	Applied Econometrics II
Macroeconomic Analysis	International Economics
Time-series Analysis I	Time-Series Analysis II
Theory of Money	Economic Analysis

ÜNİVERSİTESİ YAYINEVİ

Applied Econometrics I: Estimation subject to linear and nonlinear restrictions. Understanding the structure of econometric models. Diagnostic testing in simultaneous econometric models and problem due to nonlinearity, autocorrelation and heteroscedasticity.

Applied Econometrics II: Various application areas are treated. Consumption- demand functions, production and cost functions, international trade relationships are considered. Application of the current economic problems and policies are covered.

Econometrics I: Review of single equation regression models. Relaxing the assumptions of classical linear models: Multicollinearity, autocorrelation, heteroscedasticity. Model selection and specification errors. Regression on dummy variables. Dummy dependent variable: Logit and probit models. Dynamic economic models: Autoregressive and distributed lag models. Coputers are also used in courses.

Econometrics II: Simultaneous equation models. Identification problem. Simultaneous equation methods. Simulation and Forecasting. Computers are also used in courses.

Mathematical Economics: Mathematical treatments of some topics in microeconomics.

Non-Linear Models: Local and global Optima. Newton-type, quasi-Newton and conjugate gradient methods for unconstrained optimisation. Kuhn-Tucker theory and Lagrange duality. Algorithms for lineary constrained optimisation, including steepest ascent and reduced gradient methods with applications to linear and quadratic programming. Non linearly constrained optmisation including penalty and barrier function methods, reduced and projected gradient methods, Lagrangeran methods. Computer implementation.

Decision Making Techniques I: Introduction to decision making and types of decision situations. The models and techniques in decision- making under uncertainty. Analysis of problems using decision trees that include risk and time preference. Bayes theorem and Bayesian decision theory.

Decision Making Techniques II: Prior, posterior and conjugate prior distributions. Parametric and non-parametric tests.

Statistical Analysis: Multivariate analysis of variance, covariance and regression, computer application. Time-series analysis: Forecasting and smoothing methods. Factor analysis, principle components, cluster analysis. Discreate multivariate analysis. Applications.

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Input-Output Analysis: Data base and analytical frameworks of the input-output analysis. Interindustry price system. Design and use of programming models in development policy studies. Applications with Turkish input-output data.

Microeconomic Analysis: Consumer Theory: Preference and utility approaches to consumer theory. Neoclassical and modern consumer choice compared. Production theory: Linear and non-linear production theory. Theory of Market demand and supply. Theory of exchange and general equilibrium. Welfare economics. Stability and introductory dynamics.

Macroeconomic Analysis: Money, interest and income. Consumption. Stabilization policy. Phillips curve and the tradeoffs between inflation and unemployment. Growth and productivity. Macroeconomics in the open economy: Trade and capital flows under fixed/flexible exchange rates.

Econometric Models I: Introduction of econometric problems: detection and remedial measures. Use of econometric models for forecasting and policy simulation.

Econometric Models II: The course in second semester is conducted as a series of short papers, class discussion and presentations on the issues covered in econometrics. Various application areas are treated. Use of computers in support of econometric studies.

Applied Econometrics I: Various application areas are treated. Application of the current economic problems and policies are covered. Computers are used in courses.

Applied Econometrics II: Application of the current economic problems. Computers are used in courses.

Time-series Analysis I: Theory of Time-series models: Stationarity, unit roots and cointegration. Application of the time-series models in economic problems. Computers are used in courses.

Time-series Analysis II: Linear stochastic models: AR, MA, ARMA, ARIMA models. Stochastic model building methodology: Identification, model estimation, model diagnostic checking. Application of these models by using the computer.

Theory of Money: The classes are carried on two ways: theoretically and practically. First, the theory of monetary policy is studied. Then, the monetary policy is practised with examples.

Economic Analysis: This course mainly focuses on the theoretical framework of the basic schools of the economic thought. It covers those schools of economics, such as Classical Economists, Marx, Neo-Classics, Keynesians and Post-Keynesians.

International Economics At this program, scientific knowledge about international economic order is given. Initially, pure economic theory in relation to historical economic trade developments are explained. After that, research is done on commercial policies. Foreign exchange markets in order to understand international capital movements and foreign trade relations in the world economy; in this process, it is important to see indicators of Balance of Payments. According to the theory of open macroeconomics, we do research on the adjustment of domestic and international stability programs in terms of balance of payments.

Macroeconomic Analysis Economic structure and macroeconomic behavior. Money, inflation and growth. Adjustment mechanism in fix/flexible price models. Balance of payments complications.

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STATISTICS

The objective of the program is to provide the students with a solid background in applied statistics. The theoretical and applied tools, they will master, should prove useful in their future positions within the industry, government or academia. We aim at developing skills that will be put to use in handling and analyzing large data sets, experimental or otherwise. Taking a system modeling approach, the student should be able to analyze and learn from data relating to all social science areas in order to derive inferences about the behavior of the real world.

Language of Instruction: Turkish

MASTER'S PROGRAM IN STATISTICS

First Semester	Second Semester
Statistical Analysis I	Statistical Analysis II
Econometrics I	Econometrics II
Demography	Decision Techniques II
Decision Techniques I	Sampling
Mathematical Programming	Applied Statistics
Probability Theory	Computer Applications in Statistics
Research Methods	

Ph.D PROGRAM IN STATISTICS

First Semester	Second Semester
Applied Econometrics I	Applied Econometrics II
Multivariate Analysis	Statistical Quality Control
Nonparametric Tests	Time Series Analysis
Nonlinear Models	Applied Statistics II
Applied Statistics I	Operations Research

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COURSE DESCRIPTIONS

Statistical Analysis I: Estimation Theory, Least Squares, Maximum Likelihood and Lagrange Estimators; Univariate and Multivariate Analysis of Variance, Factorial Experiments; Covariance, Correlation and Partial Correlation, Simple and Multiple Linear Regression Analysis, Time Series Analysis: Basic forecasting, smoothing, decomposition methods and monitoring approaches.

Statistical Analysis II: Factor Analysis, Principle Components Analysis, K-means and Hierarchical Cluster Analysis, Discrete Multivariate Analysis, Canonical Correlation and Eigen values.

Econometrics I: Review on single equation Regression Models. The Relaxing the assumptions on the Classical Linear Models: Multicollinearity, Autocorelation, Heteroscedasticity. Model selection and Specification Errors: Regression on Dummy Variable: (Logit Probit Models) Dynamic Economic Models: Autoregressive and Distributed log Models. Computers are also used in courses.

Econometrics II: Simultaneous Equation Models. The Identification Problem, Simultaneous Equation Methods. Simulations and Forecasting.

Decision Techniques I: Introduction to decision making and types of situations where the decision theory is introduced. The models and techniques in decision-making under censinty. Analysis at problems using decision trees that include risk and time constraints. Bays theorem and Bayesian decision theory. Prior, posterior and conjugate prior distributions. Decision making with partial information.

Decision Techniques II: Introduction to Game Theory, zero sum games, mixed strategies. Solution of the Games formulating as Linear Programming Problems. Markov chains, Markov process and related analyses.

Mathematical Programming: Fundamentals concepts in mathematical programming. Linear programming including duality and sensitivity analysis. Nonlinear programming; convexity and optimality conditions. Overview of combinatorial optimization. Introduction to optimal control.

Probability Theory: Probability distributions for discrete and continuos variables, binomial, Poisson, Normal and exponential distributions. Sample variability and central limit theorem. Confidence intervals. Hypothesis testing. Convergence in probability, a.s. convergence. Random series. Characteristic functions. Random walk. Conditioning. Markov property.

Research Methods: In order to prepare students for scholarly work, various methods and techniques are shown for researching source material as well as for producing well-designed papers.

Sampling: Basic concepts. Methods of sampling. Estimation sample size. Clustering and its effects on estimation on equal or unequal sample sizes.

Applied Statistics: The aim of the course is to develop the understanding of the statistical tools and analyses by the means of term-projects and their presentation. These projects will be applied to different areas using different statistical tools and techniques.

Computer Applications in Statistics: Computer algorithms for programming; efficient uses of existing statistical computer programs.

Demography: Decline and growth of population and factors which influence these processes, optimum population, the process of migration, fertility rates, death rates, birth rates, rates of infant morality and their socio-economic variables. Theories and policies of population control.

Applied Econometrics: Estimation subject to Linear and Nonlinear Restrictions, Specification Error, The Identification Problem, Simultaneous Equations Systems.

Applied Econometrics II: Dynamic Models, Autoregressive models, Time Series Analysis and Computer applications.

Multivariate Analysis: Multivariate analysis of variance, covariance and regression. Factor Analysis, Cluster Analysis, Principle Components, Discreminant Analysis, Canonic Correlation, Logistic Regression.

Nonparametric Tests: Ranks and order statistics. Tests of location and scale. Sign, Wilcoxon, Van der waerden, Kolmorogov Simirnov, Spearman and Kendall Rank Correlation test, Kurskal-Wallis H Test for Completely Randomized Design, Friedman (Fr) Test for Randomized Block Design.

Nonlinear Models: Local and global optima. Newton - type, quasi - Newton, and conjugate gradient methods for unconstrained optimization. Algorithms for linearly constrained optimization, including steepst ascent and reduced gradient methods with applications to linear and quadratic programming. Nonlinearly constrained optimization including penalty and barrier function methods, Lagrangean Methods.

Applied Statistics I: Factor Analysis, Discriminant Analysis, Factorial Experiments, Analysis of Covariance and Variance. Discrete and Continuos Distributions.

Applied Statistics II: Distributions and Distribution Methods, Multivariate Normal Distribution, Balanced and Unbalanced ANOVA and ANOCOV Computations.

Statistical Quality Control: A mathematical approach to the study of modern and relevant control techniques and their underlying concepts as applied to the various functional areas within the firm.

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Time Series Analysis: Analysis of forecasting models for discrete time series, identification and estimation of parameters in autoregressive, moving average and mixed autoregressive moving average processes. Box-Jenkins approaches to problems of identification, estimation and forecasting.

Operations Research: The methodology of mathematical modeling and its relation to problems in industrial, commercial and public systems. Formulation, solution and analysis of mathematical programming models in operations research, including linear programming, quadratic and nonlinear programming, simulation and decision analysis.

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OPERATIONS RESEARCH

Head of Program: Prof. Dr. Münevver TURANLI

Operations research seeks the determination of the best (optimum) course of action of a decision problem under the restriction of limited resources. The term operations research quite often is associated almost exclusively with the use of mathematical techniques to model and analyze decision problems. Although mathematics and mathematical models represent a cornerstone to operation research, there is more to problem solving than the construction and solution of mathematical models.

Language of Instruction: Turkish

MASTER'S PROGRAM IN OPERATIONS RESEARCH

First Semester	Second Semester
Risk Management I	Risk Management II
Applied Statistical Techniques	Econometric Models II
Network Flows I	Operation Research II
Mathematical Statistics I	Network Flows II
Operation Research I	Mathematical Statistics II
Multivariable Analysis	Research Methods
Econometric Models I	System Simulation and Application
	Decision Theory

Ph.D. PROGRAM IN OPERATIONS RESEARCH

First Semester	Second Semester
Applied Econometrics	Stochastic Processes
Building of Mathematical Models	Nonlinear Programming
Input-Output Analysis	Decision Analysis
Optimization Techniques	Statistical Estimation

COURSE DESCRIPTIONS

Risk Management I - II: Description of the risk, kinds and sources of the risk, risk management, theory of risk, policy of risk, measurement and adding value of risk, estimate price of the risk, control and financial of risk.

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Applied Statistical Techniques: Random variables, sample mean and variance, asmytotic distribution theory, central limit theorem, confidence intervals, hypothesis testing.

Network Flows I - II: Flow problems of networks. Transportation and assignment problems, special purpose algorithms and advanced computational techniques. Maximum flow problem, theory, algorithms and applications. Shortest paths. Minimum cost flows. Network simplex method. multicommodity flow problems. Generalised networks.

Mathematical Statistics I - II: Distribution of functions of random variables, limiting distributions, stochastic convergence, the central limit theorem, point estimation, interval estimation. Statistical hypotheses testing, nonparametric methods, multivariate normal distribution, quadratic forms.

Operational Research I - II: The meaning of decision models and methodology of their constructions, mathematical models used in solving allocations, network flows and scheduling, investment planning and replacement problems and techniques of derving solutions from such decisions models, inventory models, queueing, search and competitive problems, simulation as a problem solving technique.

Multivariable Analysis: Chracterization and properties of a multivariate normal distribution, tests and confidence intervals. Multivariate analysis of variance, covariance and regression. Factor analysis. Applications.

Econometrics Models I - II: Single equation regression models: two variable and multivariable regression models, assumptions and hypothessis testing. The relasing the assumptions on the classical linear regression models: multicollinearity, autocorrelation, heteroscedasticity, model specification. Regression on dummy variables. Autoregressive and distributed lag models. Simultaneous equation models. The identification problem. Simultaneous equation methods. Simulation and forecasting.

Research Methods: In order to prepare students for scholarly work, various methods and techniques are shown for the researching source materials as well as for producing well-designed papers.

System Simulation and Application: The design and analysis of simulations. The use of simulation for estimation, comparisson of polices and optimization. Variance estimation techniques including the regenerative methods, time series methods and batch means. Variance reduction. Statistical analysis of output of simulations, applications to modeling stochastic system in computer science, engineering and operations research.

Decision Theory: Principle of probability and Bayesian Decision Theory as they apply to business decision making. Binary data systems sequential dynamics. Model-

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ing, intuition in management and science. A comparison of game theory and decision theory. Invariant decision rules.

Applied Econometrics: Review of simultaneous equations models and methods. Understanding the structure of econometrics models and applications of them using computers. Diagnostic testing in simultaneous equations models, problems due to nonlinearity, autocorrelation, heteroscedasticity will also be covered. Simulation and forecasting using econometrics models. Theory and application of Time Series Models. Unit Root, cointegration, ARMA and ARIMA Models.

Building of Mathematical Models: Simulation of management systems: Monte Carlo Method, Waiting Line Simulation Model, Inventory Simulation Model, New Product Planning, Advantages and Limitations of Simulation, Simulation Languegues.

Optimization Techniques: Nature and types optimization problems. Classical optimization. Global and local extrema of real valued functions. Nonlinear programming problems. Unconstrained optimization with equality constraints. Optimization with inequality constraints. Khun-Tucker theory. Generalization to m-inequality constraints. Introduction to optimization methods and their possible applications in statistic. One dimensional search techniques with their algorithms. Unconstrained gradient techniques with their algorithms. Penalty function methods. SUMT algorithm quadratically convergent minimization algorithms. Quadratic programming.

Input-Output Analysis: The subject of this study is input-output analysis. Input-output uses formal mathematical and statistical analysis and deal ith the interindustry structure and effects of the autonomous elements outside the model, on this structure in a consistent research framework. The value of the analysis stems from its applicability. The purpose of this study is to meet certain theoretical requirement for interindustry research and to be equipped for a thorough empirical analysis.

Decision Analysis: The models and techniques in decision making under uncertainty. Development of normative rationale for individual or group action in the face of uncertainty and complexity. Discussion of utility measures of risk preference and discounting measures of time preference. Analysis of problems using decision trees that include risk and time preference. Applications in business, engineering and service systems.

Sthocastic Processes: Review of probabilistic concepts. Basic definitions and construction of stochastic processes. Analysis of Markov Chains and pure jump processes. Renewal theory and applications. Markov-renewal processes. Applications to queueing, replacement and inventory problems. Selected topics from stationary processes, nth order Markov Chains, time series as stochastic processes.

Nonlinear Programming: Local and global optima. Newton-type, quasi-Newton and conjugate gradient methods for unconstrained optimization. Khun-Tucker theory and lagrangean duality. Algorithms for linearly constrained optimization, including

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steepest ascent and reduced gradient methods with applications to linear and quadratic programming. Nonlinearly constrained optimization including penalty and barrier function method, reduced and projected gradient method, Lagrangean methods. Computer implementation.

Statistical Estimation: Principles of data reduction such as sufficiency, likelihood, invariance. Drawing inference from self selected samples. Completeness. Efficiency. Minimax estimation. Nonparametric estimation.

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ECONOMICS

Head of Program: Prof. Dr. Taner BERKSOY

The primary objective of the **MA** program is to prepare the students for the Ph.D. program in the department. The program consists of eight one-term courses and a written dissertation. M.A. dissertation must prove the student's competence in the selected topic. The students who do not want to continue Ph.D. program may apply the theory and techniques of economics to the analysis of the practical problems in a variety of fields as the dissertation.

The student who has completed the course requirements, writes and defends a formal dissertation proposal which describes the research topic. Once the department has accepted the proposal, the student proceeds with the planned research under the supervision of an appointed faculty member. When the dissertation is complete the student defends it in an oral examination before the dissertation committee.

Admission to the **Ph.D.** program is limited to students whose master of art degree in economics record shows genuine capacity for advanced work in the field of economics. The primary objective of the program is to educate students as research economists.

During the first year, students must complete the works in two fields selected. Each field work consists of two one-term 'Topic' courses and two one term 'Seminar' courses. At the end of the each 'Seminar' course students submit and defend a short research paper of 'publishable' quality. The current list of available fields are.

Language of Instruction: English

MASTER'S PROGRAM IN ECONOMICS

First Semester	Second Semester
Microeconomic Theory	Theory of General Equilibrium
Macroeconomic Theory	Advanced Topics in Monetary Theory
Advanced Econometrics	Applied Econometrics
Elective	Elective
Theories of Dynamic Economics	Theories of Economic Development
Advanced International Economics	Advanced Industrial Economics

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PH.D. PROGRAM IN ECONOMICS

First Semester

Topics in Int. Trade and Finance I
Seminar in Int. Economics I
Topics in Eco. Development I
Topics in Monetary Eco. and Policy I

Second Semester

Topics in Int. Trade and Finance II
Seminar in Int. Economics II
Topics in Eco. Development II
Topics in Monetary Eco. and Policy II

COURSE DESCRIPTIONS

Microeconomic Theory: The course offers the fundamental tools of microeconomics. Main topics are production theory, duality, theory of consumers, market structure.

Macroeconomic Theory: This course will address a number of selected topics, in macroeconomic theory and in the theory of macroeconomic policy making. The topics include, Theories of inflation, approaches to unemployment and the relationship between inflation and unemployment; Monetary aporoach to the balance of payments and the Dynamics of public sector balance.

Theories of Dynamic Economics: The course is designed to introduce students to the mathematical tools needed for dynamic analysis. Topics are dynamic optimization techniques, calculus of variation, optimal control theory, models of aggregate economic growth, productivity and growth.

Advanced International Economics: This course is concerned with the issues in the theory of international trade and trade problems of developing countries. Therefore we will analyse protectionist tendencies in international trade and the problems arising in the globalisation process.

Advanced Econometrics: This course will cover the advanced topics in econometrics. The course begins with a discussion of the classical linear econometric models. In what follows, an instutive and brief explanation of the significance of unit roots and cointegration.

Theory of General Equilibrium: The purpose of the course is to introduce students to the special topics in microeconomics. Topics are models of general equilibrium, welfare theory, information economics, externalities, public goods.

Advanced Industrial Economics: The purpose of this course is to introduce theoretical and emplical approaches in Industrial Organization. We will begin with discussing different approaches, then go on to considering market structures, organizational forms and market strategies as well as issues in industrial policies.

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Applied Econometrics: This course aims at putting into practice the theory given in the Advanced Econometrics course. We will examine, (i) specification of the model(s), (ii) estimation, and (iii) model evaluation-testing. It will be possible to use Mfit-386 econometrics programs.

Theories of Economic Development: The purpose of the course is to examine the economic problems and policy concerns of Third World countries. Topics are patterns of economic development, microeconomics issues in developing countries, short-run macroeconomics and stabilization, long-run theories of growth and income distribution, technology and industrial strategies, trade patterns and debt problem.

Topics in International Trade and Finance I: This is an advanced course in trade theory. Attempts will be made to shed light on several different views on trade theory. The course beings with a discussion of pure theory of international trade and then the critique of it which leads into a further debate on Protectionism. Other topics to be covered are comparative advantage of nations and strategic trade theory.

Topics in International Trade and Finance II: This course is a continuation of Topics in International Trade and Finance I where the discussion is widened to cover intra industry trade, Financial Liberalization and Globalization.

Seminar in International Economics I-II: In this courses the graduate student is required to write a paper on International Economics, guided by the discussions in Topics in International Trade and Finance I-II. The precise topic of the paper is left to the discretion of the student.

Topics in Economic Development I: This course is aimed to present a comparative analysis of different theories on economic development. In the first part of the course Orthodox and Unorthodox Stabilization Policies are discussed. The second part follows with case studies of selected countries including Mexico, Argentina and Israel.

Topics in Economic Development II: A natural extension of Topics in Economic Development I, this course focuses on the new growth theories such as the endogenous technology approach, which is followed by the criticism of the new growth theories. Privatization and the role of government in growth are other topics that will be mentioned.

Seminar in Economic Development I-II: The students are to do research on topics in Economic Development of their preference and submit papers at the end of their research.

Topics in Monetary Economics and Policy I-II: The aim of this course is to introduce the newer developments in the theory of monetary economics. Considering the recent developments in the world economy, the applicability and repercussions

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of monetary policies on the national economies are also discussed in these courses.

Seminar in Monetary Economics I-II: These seminars are the natural extension of the topics in monetary theory. In this course it is expected to direct the students to do further research in the recent developments of economics related to the monetary issues.

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BUSINESS ADMINISTRATION

Director: Prof. Dr. Suna TEVRUZ

BUSINESS ADMINISTRATION

Head of Program: Prof. Dr. Suna TEVRUZ

The Department of Business Administration offers a two-year degree program leading to MBA and a four-year Ph.D. program. Programs offer students a grasp of functions and inter-relationships of all parts of the organization, a knowledge of the social and economic constraints working on the organization and a working appreciation of the most up-to-date management techniques through 30 credit/hour 10 courses. Participants are expected to exchange insights and ideas on contemporary issues while developing and enhancing their personal, interpersonal and communication skills. Lectures provide a formal input supplemented by discussions on readings, relevant issues and cases.

Language of Instruction: English

MASTER'S PROGRAM IN BUSINESS ADMINISTRATION

First Semester	Second Semester
Foreign Expansion and Trade Techniques	International Marketing
Advanced Marketing Management	International Finance
Strategic Management I	Strategic Management II
Individual and Group Processes	Human Resources Development
Management Audit	Decision Models
Financial Management	Contemporary Issues in Management
Quantitative Management Techniques I	Quantitative Mgmt. Techniques II
Total Quality Management	Management Philosophy

Ph.D. PROGRAM IN BUSINESS ADMINISTRATION

First Semester

Management of Innovation
Advanced Managerial Topics
Advanced Topics in Finance I
Management Philosophy
Management Audit
Business Policy I
Computer Information Systems

Second Semester

Selected Topics in Marketing
Contemporary Issues in Management
Advanced Topics in Finance II
Manufacturing Systems Management
Business Enterprise Banks and Credit Rels
Business Policy II
Strategic Planning

Both Programs host participants from different backgrounds. Some of the students are expected to complete certain courses offered by the Undergraduate Program before they can proceed to the main Program. Each step of every student is monitored by the Program Director and proper advice is given so as to assure relevant career progression is achieved. The final requirement for the award of degree is the completion of a dissertation in which the student is expected to give evidence of power of judgment and ability to synthesize relevant materials.

COURSE DESCRIPTIONS

Contemporary Issues in Management: A brief summary of management history; the new business environment; the concept of business process reengineering; best practices in reengineering; the application of BPR (choosing the process to reengineer, the process redesign, cultural and managerial problems); case studies.

Decision Models: This course considers quantitative models that have had a significant impact on management decision making. Participants will be expected to gain an appreciation of all the models considered and a reasonable facility in applying some of the models to real world problems.

Business Policy I-II: This is a senior level course, integrating various disciplines like finance, management, organizational behavior, marketing, production, etc. It deals with the foundations of the firm's competitive strategy, focusing on the analysis of the industry forces and generic strategies. It covers demand and supply, consumer behavior, competitive strategy, industry analysis, theory and case studies on industries with different structures. Turkish, American and European industrial and trading companies are subjects of term projects and vigorous case analysis for the purposes of this course.

Strategic Management I-II: This is an integrating core course dealing with the firm's competitive strategies, concentrating on the analysis of industry, environmental and internal forces, threats and opportunities that shape the generic strategies.

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Functional areas like finance, marketing, production, management and others are integrated for the purpose of establishing a strategic direction for the enterprise. The course on the strategic and organizational challenges confronting multinational business enterprises in the late 1990s. Case analysis and project preparations deal with the Turkish and foreign industrial, trading and service enterprises.

Foreign Expansion and Trade Techniques: Domestic evolution; foreign expansion; reasons for engaging in foreign expansion; major foreign trade techniques; incoterms; foreign trade financing.

Business Enterprises/Bank Credit Relations: Financing needs and means of the business enterprises; definition and types of bank credits; letters of credit and letters of guarantee; banks' corporate strategy; credit regulations and banks' lending policy; philosophy and basic principles of secured lending; business enterprises' major expectations from the banks; banks' target sector/client determination criteria; banks' credit customer evaluation criteria; banks' approach to problem loans.

Management Information Systems: Introduction to information technology concepts; system analysis and design; structured and unstructured problems; analysis of information requirements; management and executive information systems; decision support systems; expert systems; designing an effective information system; information management.

Management Philosophy: Early management thought; the scientific management thought; the social person era; people and organizations; human relations in concept and practice; the modern era; organizational behavior and theory; science and systems in management; management in a changing world.

Human Resources Management: Introduction to managing human resources and the human resources planning process; principles of selection and employment procedure; the employment/selection interview; performance appraisal; potential appraisal; vis a vis career planning and development.

Individual and Group Processes in Organizational Behavior: The goal of the course is to gain knowledge about some basic individual and group processes, to use this knowledge in analyzing problems arising in organizations, to be able to present this knowledge to the class in an efficient way, and to gain some insight in group work.

International Marketing: The students are expected to discuss selected topics in international marketing. For the discussions each student has to prepare a term paper and make a company visit. Tools and techniques in international marketing and marketing strategy in international marketing will be the fremework form term papers.

Quantitative Management Techniques I-II: Conceptual approach to data structures; characteristics of data scaling; diagnostic analysis of data structure for busi-

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ness practices; application of quantitative methods to business and industrial data; Sampling techniques and multivariate statistical techniques; individual project (subject matter selected in accordance with particular interest of student), statistical presentation and interpretation of research findings.

Management Audit: Evaluation of internal control structure (Purchases, cash disbursements and payroll; sales, cash collections and accounts receivables); obtaining an understanding of the internal control structure in a computer environment (the impact of computer in internal control and auditing procedures, computer control processes, the use of computer to gather evidence for substantive testing); sampling for substantive tests of account balances; review of auditing procedures (working capital cell, capital assets and long-term financial liabilities, revenue and expense accounts, contingencies and subsequent events); discussion of various cases which incorporatte problems faced by auditors (high problem audits, high-risk accounts and internal control issues, ethical responsibilities, professional issues, classic litigation cases).

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ACCOUNTING AND FINANCE

Head of Program: Assoc. Prof. Dr. Abdülgaffar AĞAOĞLU

Accounting and Finance program offers a two-year degree course leading to MBA and a four-year course leading to Ph.D. Programs offer students a grasp of analytical techniques for the financial management of the firm, understanding the nature of cost and the problems of cost under uncertainty, investment and financing decisions, comprehension of the diversity of accounting and reporting practices. The program also examines the problems and controversies in the field of finance and accounting. Courses for this program are obligatory with no elective options. Students are expected to complete 30 credit/hour 10 courses. The final requirement for the award of degree is the completion of a dissertation in which the student is expected to give evidence of power of judgment and ability to synthesize relevant materials.

Language of Instruction: English

MASTER'S PROGRAM IN ACCOUNTING AND FINANCE

First Semester	Second Semester
Banking Operations	Uniform Cost Accounting
Investments	Financial Institutions
Corporate Accounting	Financial Research Methods
Managerial Finance	Management Control
Uniform Financial Accounting	Feasibility Studies
Managerial Accounting	Auditing

Ph.D. PROGRAM IN ACCOUNTING AND FINANCE

First Semester	Second Semester
Accounting Information System I	Accounting Information Systems II
International Accounting Standards	International Capital Markets
Strategic Financial Planning	Bank Asset and Liability Management
Export Accounting & Turkish Applications	Contemporary Topics in Finance II
Contemporary Topics in Finance I	International Finance
Capital Markets	Contemporary Topics in Accounting

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COURSE DESCRIPTIONS

Accounting Information Systems: Designing financial information systems; the importance of cost and managerial accounting in financial information systems; Reporting and uses of accounting information; including relevant information to be used in decision making process to the accounting information system; planning, controlling and performance measurement; financial statement analyses.

Management Control: Alternative inventory costing methods; relevance, costs and the decision process; decision models and uncertainty; capital budgeting; decentralization and transfer pricing; performance measurement; strategic control systems.

Financial Institutions: The nature and role of financial institutions in the economy; flow of funds analysis of the borrowing and lending behavior; Turkish financial system; regulation, technology, and financial innovation; financial market instruments and yields; interest rate theories and risk; financial intermediation; behavioral analysis of banks and other financial institutions; the functions, authority, operations and relations of The Central Bank Of Turkey; depository institutions; development banking; investment banking; contractual financial institutions; asset and liability management in nondepository/nonbank institutions; life insurance companies; property and casualty insurance companies; pension funds; semi-financial institutions; security brokers and dealers, mutual funds; leasing and factoring companies; real estate investment trusts; equity trusts; venture capital firms; gold exchange and related institutions.

International Capital Markets: Global finance and the world economic environment; foreign exchange markets; global financial markets; interrelationship between euromarket and other markets; origin, size, and significance of eurocurrency markets; international bond markets; interest rate and currency swaps; international lending and country risk analysis; international investment and capital markets; emerging stock markets; international portfolio diversification; market efficiency in the international context; global investment management and evaluation.

Uniform Cost Accounting: General overview of the cost systems, cost accounting organization in industrial enterprises; cost accounts in direct raw material expenses, direct labor expenses, general manufacturing expenses; expense reflecting accounts, service production costs; research and development expenses; marketing sales and distribution expenses; general administrative expenses; financial expenses; expense types; expense locations.

Financial Research Methods: The role of business and financial research, theory building and overview of research process; research strategies and statistical applications; sampling procedures and sample size; univariate, bivariate, and multivariate analysis; case studies and term project.

Financial Institutions: The nature and role of financial institutions in the economy; flow of funds; determinants of interest rate levels; instruments of money and capital

markets and yield relationships; dynamics of governmental policies; role of banking; bank funds management and regulation; thrift, contractual and other financial institutions; issues in the evolution and future tendencies of the financial institutions.

Banking Operations: Bank organization; banking risks and return; analysis of financial statements and the bank performance; asset and liability management strategies; place of capital in funds management; management of interest margins; the costs and pricing of bank services; aspects of Turkish banking system; case studies and term project.

Auditing: Evaluation of internal control structure (Purchases, cash disbursements and payroll; sales, cash collections and accounts receivables); obtaining an understanding of the internal control structure in a computer environment (the impact of computer in internal control and auditing procedures, computer control processes, the use of computer to gather evidence for substantive testing); sampling for substantive tests of account balances; review of auditing procedures (working capital cell, capital assets and long-term financial liabilities, revenue and expense accounts, contingencies and subsequent events); discussion of various cases which incorporate problems faced by auditors (high problem audits, high-risk accounts and internal control issues, ethical responsibilities, professional issues, classic litigation cases).

Strategical Financial Planning: Strategic planning, environment and decision making in finance; discussion of individual topics of financial management in terms of strategical planning; case studies and relevant articles; term project.

Bank Asset and Liability Management: Banking risks and return analysis of financial statements and the bank performance; development of the theories of asset and liability management and financial markets; possible strategies; management of interest margins and the costs and pricing of bank services; risk management and important issues in financial engineering; aspects of Turkish banking system; case studies and term project.

MARMARA ÜNİVERSİTESİ YAYINEVİ

ORGANIZATIONAL BEHAVIOR

Head of Program: Prof. Dr. Suna TEVRUZ

Organizational Behavior graduate program is developed to acquaint students with theories and concepts of organizational behavior and to help future managers to analyze and understand problems they may face in their careers. Courses integrate the perspectives and findings of a wide range of social science disciplines, including social psychology, industrial psychology and management.

The goal is to understand how organizations influence the experiences and behaviors of their employees and clients - and how the experiences and behaviors of employees and clients influence the effectiveness of organizations.

Candidates of Master's degree have to complete courses totalling 24 credits and prepare a master's thesis. Doctoral candidates complete a 36-credit program and prepare a dissertation.

Language of Instruction: English

MASTER'S PROGRAM IN ORGANIZATIONAL BEHAVIOR

First Semester

Social Psychology
Introduction to Management
Statistics in Social Sciences
Organizational Behavior
Basic Research Methods
Behavior Modification and Reward Systems
Interpersonal Relations
Industrial Psychology
Introduction to Business
Decision Making and Leadership
Statistical Application
Advanced Statistics

Second Semester

Human Resources Management
Art of Managing People
Writing Skills
Organizational Culture
Training and Development
Personnel Selection and Performance Appraisal
Selected Topics in Contemporary O.B. Issues
Independent Reading & Independent Research
Industrial Sociology

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COURSE DESCRIPTIONS

Advanced Statistics: Data structure and scaling, statistical sampling techniques, introduction to multivariate statistics, multiple regression and correlation, analysis of principle components, analysis of variance, and nonparametric statistics will be reviewed.

Art of Managing People: This course aims to introduce students with information for understanding, diagnosing and communicating with different types of people, with the purpose of giving them an insight in believing that people perform effectively and productively when they are allowed to obtain optimum personality expression while at work. Topics to be covered are: Personal style differences (in learning, in behaving toward others, in decision making, in transacting), and interactive communication skills (such as questioning, listening, using nonverbal messages, giving feedback and building trust).

Basic Research Methods: The course intends to provide students with the philosophy of scientific consideration and the methods of conducting actual research. Topics to be covered are: Reconsideration of the ways we view the world, why study behavior scientificly, core concepts in measurements of behavior, methods of measuring behavior (quasi-experimental and experimental design), an application (developing a question into conducting a research), measuring attitudes with Fishbein technique is optional.

Behavior Modification and Reward Systems: Determination of human behavior by environmental stimuli and acquisition of behavioral habits is the main theme of this course. After reviewing reflexive and operant conditioning as two basic learning principles, behavior modification technique is studied in detail. Students are required to apply the technique to a behavior in daily life.

Decision Making and Leadership: This course is designed to provide students with an understanding of basic managerial styles in relation to decision making. Topics to be covered are: an overview of managerial skills, motivational theories (manly, two-factor, expectancy, reinforcement and equity), models of leadership, and decision making.

Group Dynamics: In this course many aspects of small group behavior is studied. At the end of the course the students are expected to have gathered knowledge about the nature of groups, impact of group on individuals, group formation and development and the interaction processes that take place in small groups.

Human Resources Management: This course is characterized as a set of activities that are established to events within and outside the organization. The contents of the program is to reflect and improve and contribute to the qualities of personnel/human resource management in achieving the organization's success. The course deals to a great extent with the application of a single function of the human re-

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source management. Selection Interviewing. Case discussions and role playing exercises tend to demonstrate the common errors and pitfalls in interviewing. An evaluation sheet after the interview is discussed and the participants are trained to familiarize themselves with the day to day application.

Independent Reading & Independent Research: Th purpose of the two courses is to orient students toward their dissertation studies. Each student is to choose a topic of his/her own interest and work on it under the supervision of the instructor (s)he prefers. At the end of the semester (s)he is expected to give a detailed presentation of her/his work to an audience consisting of the staff and to interested students. INDEPENDENT READING will mainly be of literature study, whereas INDEPENDENT RESEARCH will mainly be applied study.

Industrial Psychology: The objective of this course is to study human behavior in the working environment. Job related behavior will be introduced with some basic concepts as: individual differences, individual and situational variables effecting job performance, personnel selection methods and techniques, personnel training, career planning, job evaluation, conditions of work, shiftwork, fatigue, stress, human factors in industrial accidents and prevention.

Interpersonal Relations: The goal of this course is to study the basic processes underlying social relationships. As soon as the need of affiliation is met, social perception and social interaction take place. So, theories of social perception, attribution and social exchange form the basis of this course. Important topics such as communication and social power, various pro-and anti-social behavior such as conflict, helping, aggression and attraction are studied.

Organizational Behavior: The course is a comprehensive introduction to the study of work related behavior in organizations. Topics include research methods in organizational psychology, motivation to work, job satisfaction, communication processes, decision making in organizations, group processes, leadership, conflict management, power and politics, design of effective organizations, and organizational development.

Organizational Culture: The course offers a chance to gain insights about the impacts of cultural differences on management. Students are encouraged to have a scientific grasp of "mental models" through which people make attributions to and act upon their environment as an alternative approach to "universally best way of organizing". Topics to be covered are: Why study cultures on business, the meaning of culture, how to study cultures in organizations (factors that define culture of an organization), an application (cultural mapping of an organization).

Personnel Selection and Performance Appraisal: This course is designed to prepare students for personnel assesment in organizations. The techniques of job analysis, tests, interviews, self rating scales, assesment centers, and performance appraisal systems will be reviewed in detail and some application of these methods in organizations will be provided.

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Selected Topics in Contemporary OB Issues: This is course for 3rd semester PhD students. The purpose is to orient students to topics which recently have gained importance in the O.B. era. The students are expected to scrutinize such issues, select one of them and to prepare a literature survey on the related studies.

Statistical Application: Topics to be reviewed are: Statistical data and scales of measurement, concepts of validity and reliability, steps in statistical research, nature of questionnaire design, statistical presentation and interpretation of research findings, individual projects (subject matter selected in accordance with particular interest of the students).

Statistics in Social Sciences: Types of data and data scaling, frequency distributions, measures of central tendency, measures of variation, probability distributions (Binomial, Normal, Student-t), hypothoses testing, simple regression and correlation, and chi-square tests will be reviewed.

Training and Development: The purpose of this course is to provide the students information and skills in training needs assesments, developing and design of training programs, and evaluation of training programs in various organizations/industry. Students will also be informed about the functional relationship between needs assesment and training evaluation.

Writing Skills: This prerequisite course is designed to prepare students for the task of writing their theses or dessertations, including the critical evaluation of the literature necessary to such writing.

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INTERNATIONAL RELATIONS

Head of Program: Prof. Dr. Kemali SAYBAŞILI

Department of International Relations, opened in 1984, offers undergraduate and graduate (MA) programs in International Relations in English. Over 20 full-time faculty members teach about 30 different courses and seminars on various subjects ranging from International Politics, Political Theory, History of International Relations, International Organizations, Turkish Politics, Turkish Foreign Policy, and Current International Issues to Specialized area Seminars on Europe, Central Asia and the Balkans. The main current research interests of the Faculty include the Balkans Turkish Foreign Policy, and nationalism.

Language of Instruction: English

MASTER'S PROGRAM IN INTERNATIONAL RELATIONS

First Semester	**Second Semester**
Issues of World Politics	Theory and Process of Strategy
Issues of Turkish Foreign Policy	Seminar on Regional Politics
Issues of International Law	Seminar on Human Rights
Optional	Optional
Optional	Optional

COURSE DESCRIPTIONS

Issues of World Politics: This course covers the current issues of international significance from the wars in the Balkans and Caucasus to more conceptual discussions of resurgence of ethnic nationalism and globalism in a historical and theoretical perspective.

Issues of Turkish Foreign Policy: This course is devoted to the in-depth analysis of past and present issues of Turkish foreign policy and diplomacy in a historical and theoretical perspective.

Issues of International Law: In this course, various international issues such as military intervention in the Gulf, montreux regime and refugees are treated within the framework of international law.

Foreign Policy Making: It this course, theories of foreign policy making process and various case-studies of notable foreign policy decisions are analysed.

New International Law in Europe: This course analyses the major issues of international law significant to the developmets in and concerning post-Cold War Europe/in a theoretical and legal framework.

Theory and Process of Strategy: This course covers the major theories of international politics and strategy with special reference to strategic decision-making and implementation processes.

Seminar on Regional Politics: In this seminar, main security issues of various regions will be studied.

Seminar on Human Rights: This seminar on theory and practice of human rights focuses both on the development of the concept of human rights and human rights abuses including the rights of women and children.

Research and Reading in Turkish Politics: This course is designed to analyse Turkish politics through an in-depth reading of the original sources of significance in historical development of Turkish politics.

From the Cold War to Cold Peace: This course focuses on the historical foundations and features of bipolarity during the Cold War, the collapse of the bipolar system and the emergence, significance and problems of the post-Cold War international system for regional and global peace.

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BUSINESS ADMINISTRATION AND APPLIED COMPUTER SCIENCE (GERMAN)

Head of Program: Prof. Dr. Haluk SUMER

The German Speaking departments for Business Administration and Business Administration (Applied Computer Science), founded in 1991 and located at the Anadoluhisarı Campus, are offering undergratuate and graduate (MA) courses in Business Administration (BA), Accounting and Finance (MA) and Business Administration (Applied Computer Sciences) (BA and MA) in German. Faculty members -including more than ten scholars from Germany- teach about more than 50 different courses and seminars, ranging from Economics and Computer Science to Marketing, Finance, Accounting and Strategic Management. Current research interests include financial management under inflationary conditions, business taxation planning and valuation of enterprises.

Language of Instruction: German

MASTER'S PROGRAM IN ACCOUNTING AND FINANCE

First Semester	Second Semester
Financial Accounting	International Financial Accounting
Controlling	Multinational Enterprises
Investments and Financial Instruments	Foreign Trade
Financial Management	Valuation of Enterprises
Management Accounting	Strategic Management
Money and Foreign Currencies	Information Management
Business Taxation	

COURSE DESCRIPTIONS

The target of the first semester of the Master's Program is to obtain basic knowledge about modern theories and techniques of Business Administration. After finishing the first semester, participants of the courses will be able to make optimal economic desicions in the different departments of a company, based on the modern theories of Business Administration. During the specialization phase within the second semester, work is concentrated on the areas of accounting and finance. Moreover,

participants will learn about the special problems of international oriented enterprises and the solutions offered from new research in Business Administration. Moreover, the program will help to increase fluency of the German language.

Since the program requires basic knowledge in Business Administration, especially in the area of accounting, completion of undergraduate studies in Business Administration or in similar areas is strictly recommended.

MASTER'S PROGRAM IN APPLIED COMPUTER SCIENCES

The Department of Computer Science & Business Administration opened in 1990, offers undergraduate and graduate (MBA) programs in German Language. The lecturing group consists of German nationals. A wide range of courses include topics like Computer Science, Software Engineering, Quantitative Methods, System Simulation, Decision Support Systems. Courses held in Business Administration complete the scheme. A modern computer lab for practical exercises and a rich library are available.

First Semester	Second Semester
Investments and Financial Instruments	Business Application Systems
Information Technology	Practical Programming
Data Modeling	Strategic Management
Controlling	Knowledge Based Systems
Problem Oriented Programming	Operations Research/System Simulation
Business Process Modeling	Information Management

COURSE DESCRIPTIONS

The Masters program of Business Administration (Applied Computer Science) was founded in 1995, it offers an (MBA) program to graduates in German Language. The lecturing group consists mostly of German nationals (1 Turkish national). A wide range of courses include topics like System Simulation, Business Application Systems, Strategic Management, Practical Programming and Information Management.

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HUMAN RESOURCES MANAGEMENT AND DEVELOPMENT

Head of Program: Prof. Dr. Mehtap KÖKTÜRK

Human Resources Management and Development postgraduate program was established in 1991-1992 academic year. The aim of the program is to give students a comprehensive notion and basic knowledge about the Development and Management of Human Resources. Beside this, the program aims to bring up people in as interdisciplinary context. Theory and practice are together and courses are given in English in the program.

Language of Instruction: English

MASTER'S PROGRAM IN HUMAN RESOURCES MANAGEMENT AND DEVELOPMENT

First Semester

Human Resources Management & Development
Business and Marketing Research
Writing Reporting & Business
Business and Management
Social Security System in Turkey
Strategic Management*

Second Semester

Industrial Psychology
Education and Training
Applied Research for Human Resources
Contemporary Issues in Human Resources
Integrated Marketing Communications*
Strategies and Management**
Business Policy**

Electives
Organizational Behavior
Business/Civil Law
Future Skills and Abilities*
Interviewing and Measurement Techniques*

Electives
HRM: A Sociological view

* For evening students only
** For full-time students only

LOCAL AUTHORITIES AND DECENTRALIZATION

Head of Program: Prof. Dr. Ömer DİNÇER

The Program of Local Authorities and Decentralization, opened in 1995 to train academicians and to make scientific researches both in Master and Doctorate (Ph.D.) Programs, offers post graduate education in Local Authorities and Decentralization in Turkish language.

Abont 20 different courses and seminars on various subjects such as Democratization, Human Rights, Environment, Urbanization, Urban Management, Local Finances, Local Institutions etc are trained and researched.

The courses in both Doctorate (Ph.D.) and Master Programs are listed below.

Language of Instruction: Turkish

MASTER'S PROGRAM IN LOCAL AUTHORITIES

First Semester

Municipal and Urban Management
The History of Local Authorities
The Political Structure and its Problems in Turkey

Optional Courses
A. Group:
The Financial Structure of Local Authorities
Human Resources Management in The Municipalities
Urbanization and Urban Problems
B. Group:
The Management Structure of Turkey and its Problems
Democracy and Local Authorities in Turkey

Second Semester

Political Institutions and Local Authorities
Strategical Management and Organizational Policies
Metropolitan Management in Turkey and the World
The Methodology in Scientific Researches

Optional Courses
A. Group:
Urbanization and Migration
The Budget and Accounting in Local Authorities
The Infrastructural Investment and Project Management in Municipalities
B. Group:
Th Socio-Economic History of Istanbul
The Urban Life and Urbanization During Ottoman Time

Ph.D. PROGRAM IN LOCAL AUTHORITIES AND DECENTRALIZATION

First Semester

Urbanization and Environmental Management
The Urban Economy and its Developmental Policies
Bureaucracy and Organization Theories
Constitutional Order, Urban and Human Rights

Second Semester

Organization and Subsidiarity in Public Administration
Political Science
Urban Culture and Sociology
Public Relations and Communication Problems in Municipalities

COURSE DESCRIPTIONS

Municipal and Urban Management: This course is devoted to the analysis of city types municipal and urban administrative systems.

The History of Local Authorities: This course covers the issues of the historical development of city and municipality from the time of 'Antic Cite' to the 'Modern Ages'.

The Political Structure and Its Problems in Turkey: This course is aimed to search about the Turkish Political System in the dimensions of its problems, structure and its future.

The Administrative Structure and Local Authorities in Turkey: This course covers the issues on both central and rural administrative system and the Local Administrations in Turkey.

The Political Institutions and Local Authorities: In this course, the main political institutions affecting the Turkish Local Administrative system are discussed.

Urbanization and Environmental Management: This course is devoted to the environmental problems of urbanization and its solutions.

The Urban Economy and Its Developmental Policies: This course covers the issues of urban economical structures, problems and the developmental policies of urban economies.

Bureaucracy and Organization Theories: This course is aimed to search about the relations between bureaucracy and different institutional theories. The bureaucratic problems and solutions are also covered.

Organization and Subsidiarity in Public Administration: This course covers structures and the decentralization in public service.

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EDUCATION

Director: Prof. Dr. Hikmet SAVCI

ENGLISH LANGUAGE

Head of Program: Prof. Dr. Nazan AKSOY

During the Master's Degree program of the English Department, a general framework of communication process is provided with respect to dimensions of syntactics, semantics, pragmatics, and with special reference to such terms as sender/receiver, encoding/decoding, channel capacity, structure, redundancy, and noise. Historical development of language studies as they developed into modern linguistics is first surveyed, after which modern linguistic schools and contemporary trends are extensively treated. Similarly, the past and present of the methodology of foreign language teaching is examined within the framework of theory and practice. In order to fully exploit the significance of studied material, a relevant cultural background to the Western civilization is provided. A critical analysis of texts is made in terms of various literary theories and in accordance with different analytical techniques such as Structuralism, Deconstructionism, and Reception Aesthetics. In order to prepare students for scholarly work, various methods and techniques are also practiced for researching source material as well as for producing well-designed papers.

Language of Instruction: Turkish and English

MASTER'S PROGRAM IN ENGLISH LANGUAGE

First Semester	Second Semester
Communication	Textual Analysis
Literary Criticism	Stylistics
General Linguistics	Teaching Methodology
Cultural Background	Research Methods

Communication: Since language is only one type of code systems, a general framework of communication process is provided so that language is placed in a relevant context where special emphasis is given to such terms as sender/receiver, encoding/decoding, transmission, channel, noise, and redundancy.

Literary Criticism: Works from Anglo-American literature are scrutinized in terms of various literary theories, and in accordance with different analytical techniques such as Structuralism, Deconstructionism, Reception Aesthetics.

General Linguistics: Development of language studies as they developed into modern linguistics is first surveyed, after which modern linguistic schools and contemporary trends are emphasized.

Cultural Background: In order to enrich the reading of texts, cultural background to them is specifically emphasized by which subtle allusions in the texts are given proper significance. For this purpose, a historical perspective of the Western culture is duly surveyed.

Textual Analysis: The approach of 'Close Reading' is used for dissecting a text in terms of its linguistic features as well as against its cultural background.

Stylistics: Apart from linguistic 'competence', literary works of art are analyzed in accordance with their 'performance' value; that means, in terms of actualized linguistic markers, and according to the dictum 'Form underlies meaning'.

Teaching Methodology: As a substantial component of 'applied linguistics', foreign language teaching methodology is studied with special reference to its historical development through ages, as well as to the present developments and trends.

Research Methods: In order to prepare students for scholarly work, various methods and techniques are shown for researching source material as well as for producing well-designed papers.

FRENCH LANGUAGE

Head of Program: Prof. Dr. Hüseyin GÜMÜŞ

Marmara University, Institute of Social Sciences graduate program in French has been providing MA and PhD degrees in the fields of literature and linguistics in connection and coordination with French Language Department of the Atatürk Faculty of Education since 1987.

Both in graduate and postgraduate studies the theoretical courses are done in two semesters. Concerning graduate studies, the time in which the

thesis is to be completed is limited to three semesters and in post-graduate studies it is limited to six semesters.

Language of Instruction: French

MASTER'S PROGRAM IN FRENCH LANGUAGE

First Semester	Second Semester
Methodology and Criticism I	Methodology and Criticism II
Authors and Texts I	Authors and Texts II
Literary Dissertation I	Literary Dissertation II
Linguistics and Translation I	Linguistics and Translation II

Ph.D. PROGRAM IN FRENCH LANGUAGE

First Semester	Second Semester
Novels I	Novels II
Drama I	Drama II
Poetry I	Poetry II

COURSE DESCRIPTIONS

Methodology and Criticism I-II: Research methods, methods for textual analysis, currents of criticism and famous critics are studied.

Authors and Texts I-II: French writers and their works are revised by means of the methods of research and criticism.

Literary Dissertation I-II: Students are asked to study and prepare papers on various literary subjects.

Linguistics and Translation I-II: The historical development of French Language, linguistic theories of well-known linguists are studied. Translation theories and studies are done in a comparative way with Turkish language. Semiology and semantics are studied.

Novels: History of novel writing and ways of studying novels are studied and practised.

Drama: History of drama and the subjects which comprise drama are taught.

Poetry: History of poetry, art of poetry and methods of studying poetry are taught and practised.

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GERMAN LANGUAGE

Head of Program : Prof. Dr. Fatma ERKMAN

The Department of German Language runs its programs with the contributions of the professors from other departments, such as Department of English Language, Department of Turkish Language and Literature.

Language of Instruction: German - Turkish

MA and Ph.D. PROGRAMS IN GERMAN LANGUAGE TEACHING

First Semester	Second Semester
Methods in Research	German Literature
General Linguistics	Contemporary Turkish Literature
Stylistics	Sociolinguistics
Science of Literature	Theories of Grammar

COURSE DESCRIPTIONS

Methods in Research: Introduction to methodology in research. Studies on the methodology of finished M.A. and Ph.D. thesis.

General Linguistics: Introduction to theories of linguistics.

Stylistics: Introduction to stylistics and rhetoric. Practice on literary extracts.

Science of Literature: Introduction to theories of literature. Literary terms.

German Literature: Studies on certain trends in German literature.

Contemporary Turkish Literature: Studies on contemporary Turkish writers and their works.

Sociolinguistics: Introduction to sociolinguistics and bilingualism. Applied studies on learning Turkish and German.

Theories of Grammar: The function of grammar in TFL. Studies on German and Turkish grammar books.

ART EDUCATION

Head of Program: Prof. Dr. İsmail AVCI

Marmara University, Atatürk Faculty of Education Department of Art offers MA and Ph.D. programs in Painting Education and MA program in Graphic Education. The aim of these programs are to help the students progress their artistic ability and their personality. These programs have been offered since 1990-1991 academic year.

Language of Instruction: Turkish

MASTER'S PROGRAM IN PAINTING EDUCATION

First Semester	Second Semester
Art Education and Figurative Painting I	Art Education and Figurative Painting II
Art Education and Abstract Painting I	Art Education and Abstract Painting II
Silkscreen Printing I	Silkscreen Printing II
Engraving I	Engraving II
Style Researching I	Style Researching II
Painting Education I	Iconogiophic and Mithological Symbol
Artistic Sociology I	Artistic Sociology II
Research Techniques	

Ph.D. PROGRAM IN PAINTING EDUCATION

First Semester	Second Semester
Art Education and Figurative Painting I	Art Education and Figurative Painting II
Art Education and Abstract Painting I	Art Education and Abstract Painting II
Silkscreen Printing I	Silkscreen Printing II
Engraving I	Engraving II
Contemporary Artistic Research I	Contemporary Artistic Research II
Artistic Critic I	Artistic Critic II
Research Techniques	

MARMARA ÜNİVERSİTESİ YAYINEVİ

COURSE DESCRIPTIONS

Art Education and Figurative Painting (Ph.D.): The lesson is applied in order to progress artistic ability of students. The concepts of Figurative painting, comparative value of forms, colors and lights.

Art Education and Abstract Painting (Ph.D.): The course aims to encourage students to be experts at Abstract Art.

Silkscreen Printing (MA, Ph.D.): The techniques of serigraphy and industrial developments are taught.

Engraving (MA, Ph.D.): The techniques of printing and the application of gravur are taught.

The Contemporary Artistic Research (Ph.D.): The work of contemporary art is valued and examined.

Artistic Critics (Ph.D.): The methods and history of art critics are presented and how to value work of art and also how to criticise them are taught.

Art Education and Figurative Painting (MA): Space, hard and soft texture and visual and unvisual texture; in figurative art.

Art Education and Abstract Painting (MA): Space, hard and soft texture; visual and unvisual texture; texture in nonfigurative art.

Style Researching (MA): The special features of style in art are presented and examined in chronological order.

Painting Education (MA): The methods and the principles of Education of Painting are taught.

Artistic Sociology (MA): Among the societies culture and art relationships are taught.

Research Techniques (MA, Ph.D.): The methods of scientific research are taught.

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MASTER'S PROGRAM IN GRAPHIC EDUCATION

First Semester

Graphic Design Education I
Lythography
High Printing
Iconographic and Mythological Symbols
History of Graphical Arts I
Artistic Sociology I

Second Semester

Graphic Design Education II
Silkscreen Printing
Engraving
Painting Education
History of Graphical Arts II
Artistic Sociology II
Research Techniques

COURSE DESCRIPTIONS

Graphic Design Education I-II: Amblem, label, photography etc. are applied.

Lythography: Lythography techniques are taught.

High Printing: The techniques of wood, linol and metal printing are presented with the help of examples.

Silkscreen Printing: The methods and principles of serigraphy techniques are taught.

Engraving: The techniques of printing and application of gravur are taught.

Iconographic and Mythological Symbols: The Greek mythology, the symbols that are used in art and Christian iconography are presented with the help of examples.

History of Graphical Arts: Graphical art and artists are taught in chronological order.

Artistic Sociology I-II: Among the societies, culture and art relationships are valued and examined.

Research Techniques: The methods of scientific research are taught.

MARMARA ÜNİVERSİTESİ YAYINEVİ

PUBLIC LAW and PRIVATE LAW

Director: Prof. Dr. Fehim ÜÇIŞIK

The Faculty of Law was established on 20th July 1982 in İstanbul. The education period of the faculty is 4 years (8 semesters). The undergraduate curriculum leading to the Bachelor's degree is designed to provide a basic knowledge of the Turkish Legal System to all students during the first year, allowing for increasing specialization in the upper classes.

GRADUATE PROGRAM IN PUBLIC LAW AND PRIVATE LAW

The Faculty of Law (The Department of Law) also offers advanced training for MA. and Ph.D. students who are interested in careers in legal education.

The Department of Public Law provides teaching and supervision in all the principal fields of public law. The research interests of members of staff are wide within this spectrum. Areas of public law in which expertise is available include Constitutional Law, Administrative Law, Public law, Law of Criminal Procedure.

The Department of Private Law includes Civil Law, Roman Law, Commercial Law, Private International Law, Law of Civil Procedure & Law of Execution and Bankruptcy, Labor Law & Social Security Law, Maritime Law.

The courses are for one academic year each (2 semesters). Students must select six courses per semester from the list of available courses and are required to pass an assessment at the end of each semester. In addition students submit a thesis on a subject of his/her choice in the second academic year (2-3 semesters).

MARMARA ÜNİVERSİTESİ YAYINEVİ

10. INSTITUTE FOR GRADUATE STUDIES IN SCIENCE AND TECHNOLOGY

Director : Prof. Dr. Eralp ÖZİL
Assistant Director : Prof. Dr. Ahmet Alp SAYAR

Language of Instruction: Turkish and English

Graduate Institute of Science and Technology was established in 1982 to conduct graduate programs in education, science, engineering and technical education. Graduate pogrami are offered in the following fields.

PROGRAMS IN EDUCATION

Biology Education
Chemistry Education
Mathematics Education
Music Education
Physics Education

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Programs in Engineering
Computer Engineering
Engineering Management
Environmental Engineering
Industrial Engineering
Mechanical Engineering

Programs in Science
Biology
Chemistry
Mathematics
Physics

Programs in Technical Education
Electrical Technology Education
Electronics and Computer Technology Education
Mechanical Technology Education
Metal Technology Education
Printing Technology Education
Technology Education
Textile Technology and Education

Procedure for Application
Titles of graduate programs and the number of Turkish and foreign students to be admitted to each program are officially announced each August. Approval of the relevant program director is a prerequisite for application. Applicants to graduate programs should submit authorized copies of their last diplomas (master's degree for Ph.D. applicants and bachelor's degree for master applicants). Command of Turkish language is not required from foreign students applying to graduate programs conducted in English.

Degree Requirements
Completion of a minimum of 21 credit hours of course work by taking a minimum of 7 different courses is required from all master students. In addition, a master thesis must be prepared to fulfill the requirements for the degrees of master of science or master of arts. Completion of a minimum of 21 credit hours of courses work by taking a minimum of 7 different courses is required from all doctorate students. In addition, a doctorate thesis must be prepared to fulfill the requirements for the degrees of doctor of science or doctor of arts.

MARMARA ÜNİVERSİTESİ YAYINEVİ

EDUCATION

BIOLOGY EDUCATION

Head of Program: Prof. Dr. Ali ÇIRPICI

The graduate program in Biology Education is offered at the master's and doctoral levels for students pursuing a degree in Biology Education or in various fields of Biology. The researches in this program are being progressed in both fields of Biology and Biology Education. The research areas are primarily focused on identification and use of biological resources of Turkey; interactions between environment and organisms; teaching and learning of biology. The specific areas of research are: Plant Taxonomy, Taxonomy of Lichens, Insect Physiology, Embryology and Cytology of Flowering Plants, Fungi as Food Contaminants, Water Pollution, Research on Biology Curriculum.

Language of Instruction: Turkish

MASTER'S PROGRAM IN BIOLOGY EDUCATION

First Semester	Second Semester
Special Topics in Biology I	Special Topics in Biology II
Elective	Elective
Elective	Elective
Elective	Elective

Ph.D. PROGRAM IN BIOLOGY EDUCATION

First Semester	Second Semester
Seminar I	Seminar II
Elective	Elective
Elective	Elective
Elective	Elective

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Special Topics in Biology I-II: Discussions on the recent developments in important areas of biology. Topics selected by instructors.

Seminar I-II: Detailed reports on specific topics in the field chosen by instructors and the students.

Advanced Plant Anatomy: Anatomy of vegetative and reproductive organs of plants; development of tissue types. Primary and secondary structure of root, stem and leaf.

Advanced Plant Morphology: Structure of vegetative and reproductive organs of plants; metamorphosis; terminology on plant structure. Inflorescence, fruit types.

Flora of Turkey I: The flora of geographical divisions of Turkey discussed in considering the topographical and climatic differences of the regions.

Flora of Turkey II: The distributions of some important plant families in Turkey and the determination of some genera and their species.

Pollen Morphology: Structure of pollen grains and their composition. The development of the wall of pollen grain. The morphology used in identification of the pollen grains; the key for pollen grains.

Taxonomy of Dicotyledones: General characteristics of Dicotyledones; terminology, families, genera and species.

Principles of Taxonomy: The scope and the development of plant taxonomy. Sources of taxonomic information (structural, chemical, chromosomal, geographic and ecological information). Codes of nomenclature. Terminology of Plant taxonomy.

Advanced Plant Embryology: The formation of gametes, fertilisation and embryogenesis of flowering plants. The details of these events discussed in different taxonomic families.

Embryogenesis in Angiosperms: The differentiation of tissues and organs in developing flowering plants. The tissue culture studies discussed to explain the differentiation process in somatic tissues.

Interactions Between Organisms and Environment: Discussions on the adaptive physiological mechanisms used by the organisms (microbial, plant and animal) living in different environmental conditions.

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Cell to Cell Signalling: Discussion on molecular mechanisms of various signalling processes including hormonal, growth factors, extracellular material, gapjunctional and neuronal signaling. New developments in cell signaling research.

Techniques for Micropreparation: Demonstrations and student experiments on the preparation of plant and animal specimens for the cytological, histological and anatomical observations.

Seed Biology: The contents of seed biology; importance and characteristics of seeds development of angiosperm seeds, anatomical mechanism of seed dispersal, seed germination and morphogenesis, experimental control of seed germination, seed dormancy.

Biology of Mold Fungi: A course on classification, morphology, reproduction and physiology of mold. This course also explains pathogenic mold, cultivation, isolation and identification techniques.

Biology Of Water Plants: Decussions and practical work on the species specific thallus structures, asexual (vegetative) and sexual reproductive mechanisms and morphological variations in algae.

Herbarium Techniques: The development, purpose and types of herbaria. The herbarium building and specimen storage. Pest treatments, herbarium materials, label design and production. Mounting of herbarium specimens. The arrangement of herbarium collection.

Plant Identification: General rules for identification of plants; identification keys; practice for the identification of many important families and genera.

Taxonomy of Monocotyledons: General characteristics of monocotyledon plants. Terminology used for their taxonomy.

Cytological and Embryological Research Methods: The research methods demonstrated and discussed for the use of plant cytology and embryology.

Sexual Incompatibility In Flowering Plants: The causes and results of sexual incompatibility in flowering plants.

Hormonal Control In Animals: Hormonal control mechanisms providing homeostasis and adaptation to environmental conditions in different animal groups.

Plant Biochemistry: The application in recent decades of novel techniques for fractionating cellular constituents, for isolating enzymes, for electrophoretically separating nucleic acids and proteins and for chromatographically identify the intermediates and products of cellular metabolism has revolutionised our knowledge of the biochemical processes of life.

Special Topics in Microbiology: A course on airborne infections, waterborne infections and foodborne disase.

The Propagation of Bulbs and Decoration Plants: The principles of propagation of bulbs and decoration plants. The various seed sewing methods, natural vegetative growth, new plant form from cuttings, the techniques of grafting and budding.

Chemical Communications in Animals: The nervous, hormonal and pheromonal mechanisms providing interaction between the individuals of animal groups in different species.

Chemistry of Hormones and Its Function: The chemical structures, synthesis of hormones and their effects on metabolism.

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CHEMISTRY EDUCATION

Head of Program: Prof. Dr. Musa ŞAHİN

In the graduate program for Chemistry Education courses are offered in analytical chemistry, physical chemistry, organic chemistry, inorganc chemistry and biochemistry. Graduate research topics are mostly directly related to topics in the field of Chemistry. Graduate work may involve also topics which may serve to update educational methods in Chemistry Education.

Language of Instruction: Turkish

MASTER'S PROGRAM IN CHEMISTRY EDUCATION

Prerequisites: The applicants must have a B.S. Degree in Chemistry Education or equivalent.

First Semester	Second Semester
Elective	Elective
Elective	Elective
Elective	Elective
Elective	Elective

Ph.D. PROGRAM IN CHEMISTRY EDUCATION

First Semester	Second Semester
Elective	Elective
Elective	Elective
Elective	Elective
Elective	Elective
Elective	Elective

ÜNİVERSİTESİ YAYINEVİ

Organic Polymer Chemistry: General methods of preparation of polymers, classification of polymerization reactions, polymer structure, copolymerization, polyolefins, polyamits and related polymers, polyesters, aminopolymers, epoxies, polymerization techniques, source of synthetic polymers.

Petrochemicals from Hydrocarbons: Petroleum compositions and classifications, refinery processes and petrochemical feed stocks, petrochemicals from methane and n-paraffins, production of olefins. Petrochemicals from ethylene, propylene and higher olefins, petrochemicals from benzene, toluene and xylenes. Thermoplastics, synthetic fibers and synthetic rubber.

Applied Organic Chemistry: Polymers and polymerization, fats and steroids, carbohydrates, protein and nucleic acids, surfactants and paints, food preservatives, colors and flavoring agents, cosmetics for the skin, hair, nail and teeth. Perfumes, vitamins, antibiotics and drugs.

Organic Radicals: Introduction, homolysis and heterolysis. The formation of radicals. Radicals of long life, radical-radical reactions, radical transfer reactions, radical oxidations and reduction.

Kinetics of Inorganic Reactions: Theory of reaction rates, atomic and free-radical processes, reactions in solution, catalyzed reactions, photochemical reactions, fast reactions.

Crystal Chemistry: Crystal systems, Bravais-translation lattice, symmetry operations lattice by metals, lattice by compounds, metaloids, X-ray by crystal systems, X-ray analysis.

Topics in Bioinorganic Chemistry: Transition-metal ion sites in metalloproteins, structures of electron transfer proteins, particularly of the blue copper proteins, the entatic effect, kinetics of electron transfer reaction, heme and non-heme oxygen carriers.

Advanced Inorganic Chemistry: Symmetry and group theory (point groups, symmetry operations, character tables), the metallic bond, crystal lattice energies, electron transfer processes, molecular orbital theory for inorganic compounds, metal-metal bonding, cluster compounds, equilibria in solution, stability constants and their determination.

Non-Aqueous Solvents: Solute-solvent interaction, protonic solvents, liquid oxide solvents-dinitrogen tetroxide, oxyhalide solvents, liquid halides as ionizing solvents, fused salts.

Spectroscopic Methods: Spectroscopic areas and determinations, UV/VIS Spectroscopyabsortion, colorimetry, determination of concentration of same species, absorption by organic compounds, absorption by inorganic compounds, absorption

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by d-metal complexes; infrared spectroscopy introduction to IR, vibrations by molecules, IR in Praxis.

Orgel Diagrams: Introduction to ligand field theory, absorption spectra of transition metal complex ions, high field and low field limits.

Advanced Coordination Chemistry: Atomic spectra of transition metals and their ions, formation of coordination compounds, structures of coordination complex compounds, molecular orbital theory, hydration free energies of transition metal ions in a dielectric continuum.

Boron Chemistry: Technology of Boron industry, petercgenous equilibria in aqueous systems of inorganic borates. Inorganic boron-oxygen chemistry, elemental boron.

Advanced Chemical Kinetics: Molecular kinetics; potential energy surfaces, kinetic theory of collisions, statistical mechanics of chemical equilibrium, the theory of absolute reaction rates, kinetic isotope effects, reactions in solution; reactions between ions, reactions involving dipoles, influence of pressure on rates in solution, fast reactions, substituent effects, the Taft equation.

Advanced Electrochemistry: Fundamental electrode phenomena, methods involving mass transfer by convection diffusion, methods involving mass transfer by diffusion, coulometry, potentiometry and chronoamperometry polarography and voltammetry, amperometry and cyclic voltammetry,cells for electrolysis, diaphram materials, electrode materials and reference electrodes, solvent for electrolysis and electrolytes, reduction of organic compounds.

Electrochemical Methods of Analysis: Introduction; the structure of electrochemistry, interfacial (double layer) and electrokinetic phenomena, electrodes employed in electrochemical analysis, reversible electrode potentials, irreversible electrode processes, electrode kinetics. Electrochemical titration. Polarography; arrangement for polarography, techniques of polarography, the shape of the polarogram, techniques for investigation of polarograms, reversible process in polarography, irreversible process in polarography. Cyclic voltammetry; arrangements for polarography, techniques for cyclic voltammetry, the shapes of cyclic voltammograms, techniques for investigation cyclic voltammograms, reversible processes in cyclic voltammetry, irreversible processes in cyclic voltammetry. Controlled potential electrolysis and coulometry.

Surface Chemistry: The structure and properties of porous materials; clays, bleaching earths. Determination the structure of porous materials; XR, DTA, IR. Physical adsorption; physical adsorption isotherms, the Tangmuir adsorption isotherms. Adsorption of gases in multimolecular layers; BET, Harkins-Jura, de Boer-Lippens. Chemical reaction on porous materials; heterogeneous reactions, steps in the mechanism of surface reactions, the role of the surface in catalysis. Examples of catalytic processes; hydrogenation, oxidation, cracking on reforming.

Advanced Thermodynamics: Production of work from heat, condensible fluid cycles. Analysis of steam power plant cycle, internal combustion engines, combustion-gas turbine, refrigeration, compression, thermodynamic analysis of processes, phase equilibria, chemical reaction equilibria.

Selected Topics in Chemical Kinetics: Experimental Methods used in Chemical Kinetics; spectrophotometry, conductivity, pressure, volume measurements etc. Basic principles of Kinetics, Heterogeneous reactions.

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MARMARA ÜNİVERSİTESİ YAYINEVİ

MATHEMATICS EDUCATION

Head of Program: Prof. Dr. Şermin ATAÇIK

There is only an M.S. program in Mathematics Education Department. In a few years, a Ph.D. program will be offered too. The research fields are Point Set Topology, Number Theory, Lie Algebra, Lie Groups, Approximation Theory, Stochastic Processes, Bayesian Interference, Computer Based Mathematics Education.

Language of Instruction: Turkish

MASTER'S PROGRAM IN MATHEMATICS EDUCATION

Prerequisites: The applicants must have a Bachelor's Degree in Mathematics and Education or its equivalent. For probable prerequisites please refer to the undergraduate program of the Department of Mathematics and Education.

First Semester	Second Semester
Real Analysis I	Real Analysis II
General Topology I	General Topology II
Complex Analysis I	Complex Analysis II
Algebra I	Algebra II

COURSE DESCRIPTIONS

Analysis I: Outer measure, measurable, sets and lebesque measure, measurable functions, Riemann integral, Lebesque integral, monotone convergence theorem, lebesque dominant convergence theorem, derivative functions of bounded variation, derivative of integral, absolute continuity, LP spaces, bounded linear functions, Reisz representation theorem.

General Topology I: Elementary concepts, continuity and homeo, morphisms, seperation axioms, more about compactness, one-point compactification, product spaces, connected and locally connected spaces.

Algebra I: Basic Properties of groups, isomorphism and homomorphism of groups, permutation groups, normal series, solvable groups, Sylow theorems, properties of rings, ideals, quotient rings, isomorphism and homomorphism of rings, Euclidean rings.

Complex Analysis I: Complex numbers and topology of complex plane, analytic functions, Cauchy's theorem and Cauchy integral formula, Gaursat theorem.

Special Thesis Subjects in Math: Discussion of thesis subjects of students in masters program by students advisor.

Analysis II: Normed linear spaces, the LP spaces, modes of convergence and relations between convergence in mean, convergence in measure almost everywhere convergence, convergence in measure almost uniform convergence, Ho-Hn-Banach decomposition theorem, the Radon Nikodym theorem, product measures, Tonelli's theorem, Fubuni's theorem.

General Topology II: Metric spaces and metrization, complete metric spaces and completion, function spaces, Baire catagory function spaces.

Algebra II: Polynomial rings, vector spaces and modules, linear independence and basis, inner product spaces, linear transformations, algebra of linear transformations, matrices and canonical form of matrices, triagular form, Jordan form and rational canonical form, determinants, fields algebraic extension of fields, roots of polynomials, Galois theory.

Complex Analysis II: Space of analytic functions, space of meromorfic functions, Riemann mapping theorem, analytical continuations, Weierstrass product theorem.

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MUSIC EDUCATION

Head of Program: Prof. Dr. Yücel ELMAS

In the Department of Music Education under the guidance of the Graduate Institute of Sciences and Technology, M.A. and Ph.D. studies are conducted aiming at qualifying music researchers and music critics in the fields ranging from pre-school, to high school to adult education.

Language of Instruction: Turkish

MASTER'S PROGRAM IN MUSIC EDUCATION

Prerequisites' Introduction to Education, Measurement and Evaluation, Methods in Music Education, Principles and Methods of Education, Development Psychology, Education Sociology, Education Management, Learning Psychology, Guidance, Music Education Practice.

First Semester

Major Field of Study and its Education I
Composing Music for Educational Purposes
Structural Evolution of Music Instruments
Piano Accompaniment / Chamber Music

Second Semester

Major Field of Study and its Education II
Techniques of Polyphonization
Contemporary Music Currents
Research in Turkish Music Education
Piano Accompaniment / Chamber Music

Ph.D. PROGRAM IN MUSIC EDUCATION

Prerequisites: Masters degree

First Semester

Formation of Major Field of Study I
Music Sociology
Music Education and Statistics
Theories of Art

Piano Accompaniment / Chamber Music

Second Semester

Formation of Major Field of Study II
Music Psychology
History of Turkish
Music Education
Music Technology
Piano Accompaniment Chamber Music

COURSE DESCRIPTIONS

Major Field of Study and its Education: The students choose one of the various subjects such as piano, violin, viola, violoncello, guitar, individual vocal education, choir training and conducting, polyphonization, musical hearing, Turkish folk music and bağlama (a folkloric string instrument), etc.

Composing Music for Educational Purposes: The students compose music for educational purposes, especially relating to their major fields of study.

Structural Evolution of Music Instruments: The stages of evolution that the music instruments have gone through, starting from the early ages to our day; and the developments that have taken place in the contemporary instruments are scrutinized.

Methods of Research: The subject foresees the examining of basic concepts, the objectives, and the principles of scientific research. It introduces the methods and the techniques of research, evaluating the already completed samples of research work and proceeding with the students preparing their own papers.

Piano Accompaniment/Chamber Music: The students who take one of the subjects like piano, individual vocal education, musical hearing, choir training and conducting or polyphonization as their major field of study, take piano accompaniment; and the ones who violin, viola, violoncello, guitar, Turkish folk music and bağlama, take the subject of Chamber Music to engage in group work.

Techniques of Polyphonization: Exercising polyphonization at tonal and modal series constitutes the theme of the subject.

Contemporary Music Currents: The music structures and the characteristics, arising in the twentieth century and the leading composers who work on them are scrutinized from the point of view of the different forms they take, in comparison to the previous centuries and schools. Examples to such currents are impressionism, expressionism, neoclassicism, jazz music, microtonality, electronic music, etc.

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Research in Turkish Music Education: The subject comprises of a thorough examination of previously completed and published samples of research and the preparation of new projects.

Formation of Major Field of Study: An advanced form of the postgraduate course, "Major Field of Study and its Education" is presented.

Music Sociology: The subject examines the sources of music, its importance and its role in social life in addition to the interrelations of music with other disciplines. The course aims at enabling the students to evaluate the structures more efficiently.

Music Education and Statistics: The subject aims at scrutinizing the methods of research about the problems in teaching Turkish music, using statistical techniques. Students taking this course prepare research project in addition to going through the ones already published.

Theories of Art: The students who take this course learn about the basic concepts and the philosophy of art, and aesthetics in addition to scrutinizing the literature and writing articles.

Music Psychology: The subject comprises the examining of basic concepts of music psychology, such as enjoying and teaching music, testing of musical abilities, communication, etc. and it enables the students to make researches in this field.

History of Turkish Music Education: The history and the programs of all the music institutions in Turkey such as conservatoriums, Music Education Departments, Fine Arts Academies, Music Highschools, musicology, ethnomusicology, orchestras, operas and ballets, music in primary, secondary schools, choirs, TRT and music, etc. are scrutinized.

Music Technology: The main theme of the subject is the use and the effect of today's technological developments in the field of music. The facilities, the speed and other innovations that technology brings to writing, printing, duplicating, performing, interpreting, archiving, and teaching music are examined.

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PHYSICS EDUCATION

Head of Program: Prof. Dr. Mehmet Ali ÇORLU

The purpose of this program is to provide necessary basic education which will lead to Ph.D. degrees in further postgraduate studies and will enable the students to carry out research in their own qualified fileds.

In this program students have to complete 24 credit hours in one year, adopting the courses from compulsory and selective subjects.

Elective courses will provide the fundamentals for selection of future thesis which will be completed in second year of the program.

Students who have completed above described graduate program, are employed and prelerred as teachers, researchers within the Government, private schools and universities as well as by the industrial sector.

Language of Instruction: Turkish

MASTER'S PROGRAM IN PHYSICS EDUCATION

Prerequisites: The applicants must have B.S. Degree in Physics Education or in Physics. For probable prerequisites please refer to the undergraduate program of Department of Physics Education.

First Semester	Second Semester
Research and Test Techniques in Science Education I	Research and Test Techniques in Science Education II
Projects in Science Education I	Projects in Science Education II
Computer Assisted Numerical Analysis I	Computer Assisted Numerical Analysis II
Elective	Elective
Elective	Elective

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COURSE DESCRIPTIONS

Research and Test Techniques in Science Education I: Introduction to SPSS Program, Scales, Validity, Reliability and Classification of Test Techniques using SPSS.

Research and Test Techniques in Science Education II: Statistical techniques and Measurement Tools in Science Education using SPSS; Graphical presentation of the examination scores with SPSS.-A variety of research activities for science and physics education in primary and secondary schools as well as in Faculty of Education.

Computer Assisted Numerical Analysis I: Fundamental Applications related to the Numerical Analysis using PC.-Two and three dimensional graphical packages are used which are related to evaluation techniques for experimental data obtained from computer aided physics laboratory equipment.

Computer Assisted Numerical Analysis II: Arrays and subcripted variables-functions and subprograms-numerical integration-roots of equations-solutions of linear equations of ordinary differential equations.

Projects in Science and Physics Education I: Brief presentation or synopses for the National Science Education Development Project in laboratory schools. A variety of forms of practical work and developing follow up activities making and using simple forms of apparatus for use in schools.

Projects in Science and Physics Education II: A variety of forms of practising teaching skills: Planning, introducing a lesson, key questions, organising practicals and demonstrations in secondary schools. Teaching and Testing of the new experimental sets of the Projects. Discussing sessions in small student groups and reported back by poster, oral or written presentation.

Advanced Experimental Techniques and Demonstrations: Designed and introduced Experimental Techniques which are effected in Science Education and Educational Technology.

Reading in Physics and Physics Education: Supervised reading and library work. Choice of material according to individual needs. Both written and oral presentations are required.

Graduate Seminar: Concentrated study of one selected advanced topic under the supervision of one or more faculty members. Both written and oral presentations are required.

Mathematical Methods in Physics (special chapters): Vector and tensor analysis, linear algebra, matrices and vector spaces, Fourier series and transforms; special harmonics; Bessel functions; linear second order partial differential equations and

their associated boundary value problems. Variational calculus. Review of principles of mechanics, Lagrange's equations, Hamilton's principle and variational techniques. Two body central forces, rigid body motion, special relativity. The Hamilton equation of motion, the principle of least action, canonical transformations, Hamilton Jacobi theory, Small Oscillations.

Electromagnetic Theory: Electrostatics and magnetostatics, Maxwell's field equations. The interaction of radiation with matter. Interference and diffraction. Wave guides and cavities. Relativistic electrodynamics.

Quantum Mechanics: Fundamental principles of quantum mechanics. Bound state problems. Scattering theory. Perturbation theory, applications to atomic, molecular and nuclear physics. Dirac equation.

Solid State Physics: Periodic structure and symmetry of crystals, lattice dynamics, phonons, electron gas, Fermi surfaces, electrical and thermal conductivity, semiconductors and insulators, magnetic phenomena in solids, band structure.

Digital Electronics I: Fundamentals of Digital Electronics.

Digital Electronics II: Selected topics and devices which are used in Physics laboratories.

Semiconductor Devices: Basic Principles and charecteristics of Semiconductor Devices. Junction and MIS Diodes, Field effect Transistors, Thin Film Devices, Optoelectronic Devices.

X-Ray Crystolography: Fundamentals of Crystolography, X-Ray Analyses of single and polycrystalline materials.

Molecular Spectroscopy: Vibrating and rotating systems. Quantum Mechanical Theory of symmetric and assymmetric molecular vibrators including vibration-rotation interactions. Intensities and energies of molecular transitions. Methods of analyses used in high resolution molecular spectroscopy.

Thermal Physics (selected topics): Laws of Thermodynamics and their applications. Kinetic Theory of Gases. Maxwell-Boltzmann, Bose-Einstein and Fermi-Dirac Statistics. Enseble Theory, relation of Statistical Mechanics to Thermodynamics; Distribution and partition function. Applications to classical and quantum gases, liquids and solids including cluster theory of imperfect gases.

MARMARA ÜNİVERSİTESİ YAYINEVİ

ENGINEERING

COMPUTER ENGINEERING

Head of Program: Prof. Dr. Kılıçarslan AYTAÇ

The department of Computer Engineering offers a graduate program leading to the MSc Degree since 1993. The program aims to prepare professionals who will adapt to the advances in technology and also capable of leading developing that technology. The department's computing facilities are organized around centralized network with multiple UNIX servers. Network access is provided to Internet, and thus connected to all major universities and research centers all over the world.

The program and research interests of the department lie in a variety of following areas and the graduate students participate in the department's research efforts:

Advanced Computer Architectures and Technology: VLSI circuit design, Functional components and organization of modern computers, RISC architecture, multiprocessors systems, parallel processing and programming, dataflow computers and performance evaluation of computer systems are covered.

Systems with Emphasis on Distributed and Parallel Computing: Hardware and software design issues in distributed and parallel systems, resource management for distributed operating systems: interaction between operating system design and architectures including fault tolerance issues are emphasized.

Communications and Networking: High speed switching technologies such as frame relay and ATM with particular interest on flow and congestion control, TCP/IP Networking and the problems of interconnecting IP networks, also recent interest in the design of protocol suites for mobile systems and wireless networks are covered.

Multimedia Systems: The application, underlying communication system and related operating systems requirements of multimedia systems are emphasized.

Advanced Topics in Databases: Semantic models, object-oriented databases, knowledge bases, multimedia databases, distributed database and client-server base application development are issued.

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Software Development, Project Management and MIS: Object oriented development, CASE workbenches, software quality assurance, software cost estimation, configuration and version management, management of software projects and Management Information systems are issued.

Cognizant Sciences: Multi-disciplinary areas such as modeling, simulation, artificial intelligence, expert systems, computer graphics, image processing and computer vision topics are covered.

Language of Instruction: English

MASTER'S PROGRAM IN COMPUTER ENGINEERING

Prerequisites: Data structures, Principles of Programming Languages, Digital Design, Database Systems, Computer Organization, Operating Systems.

First Semester	Second Semester
Mathematical Modeling and Simulation	Advanced Databases
Advanced Computer Architecture	Technical Elective
Technical Elective	Technical Elective
Technical Elective	Technical Elective

COURSE DESCRIPTIONS

Mathematical Modeling and Simulation: System models, modeling, physical and mathematical models, stochastic activities, probability concepts, queuing theory, arrival pattern and service times, continuous system simulation, discrete system simulation, simulation programming techniques, analysis of simulation output.

Advanced Databases: Semantic models, object oriented and conceptual modeling, normalization (1, 2, 3, 4, 5 ng, bcnf and dk/nf), semantic to relation schema transformation, null values, object-oriented databases, knowledge bases, multimedia databases, query optimization, update integrity and propagation, distributed database, and CASE.

Advanced Computer Architecture: Functional components and organization of modern computers, RISC architecture, cache memories, microprogramming, pipelining, parallel processing, interconnection network, multiprocessors systems with shared and unshared memory, multiprocessors software, dataflow computers.

Distributed Operating Systems: Hardware and software concepts, design issues in distributed systems such as transparency, reliability etc., client-server model in communication, remote procedure calls, group communication, synchronization, re-

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plication, fault tolerance, real-time distributed systems, distributed shared memory concepts and case studies: Amoeba, Mach, Chorus etc.

Advanced Topics in Software Engineering: Object-Oriented design, concurrent system design, CASE workbenches, software quality assurance, software cost estimation, configuration and version management.

Information Systems Development: Structured analysis development strategy, prototype development strategy, CASE tools, system design, design for data communication, managing system implementation, hardware and software selection.

Information Systems for Management: The decision making process, human as information processor, system concepts, concepts of planning and control, organizational structure and management concepts, structure of management information systems, long-range information system plan, support systems for planning, control and decision making, organization and management of information resources.

Software Project Management: Software project concept, formal planning, control of work, project methodology, project planning, adjusting for project size, change control, cost/benefit analysis, risk analysis, function analysis, estimating methods, scheduling: networks theory (for planning and control), peer reviews auditing, quality control.

Object Oriented Languages: Object-Oriented Problem solving, classes, data encapsulation, using classes, inheritance and derived classes, polymorphism and virtual functions, templates, case-studies in object oriented programming, C++, Smalltalk, Eiffel.

High Speed Multimedia Communications: The requirements of multimedia applications from the underlying communication system is covered in detail. Existing communication systems and the required operating system support is discussed.

Open Systems Networking: Advanced topics in Computer Networks are covered. During the semester, students are asked to present a paper in one of these areas: TCP/IP networking, Mobile Systems, Congestion and Flow Control in High Speed Networks (ATM), Multimedia Communications, Routing, Internetworking, ATM Design Issues etc.

Artificial Intelligence and Expert Systems: Logic Programs, facts, queues, rules, recursive programming, search techniques nondeterministic programming, incomplete data structures, meta interpreters, case studies and applications.

Image Processing: Thresholding and segmentation, mathematical morphology,, neighborhood operators, conditioning and labeling, image segmentation, texture, image restoration, oprations using statistics, applications of image processing.

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Knowledgebase Systems: Knowledge representation, formal logic, non-classic logic in knowledge base processing, uncertainty, production rule base systems, slot and filler knowledge representation, expert systems: shell, inference engine, cognizant science and knowledge bases, deductive databases: rule definition languages, query processing, recursive queries, knowledge management systems, development of knowledge base systems.

Fault Tolerant Computing: Types of failures that can occur in a distributed and centralized computing environments are defined. Failure detection, prevention and recovery algorithms are discussed for both types of environments.

Computer Vision: Aim of computer vision, light and color, image formation, image sensing, camera models, extracting information from images, robotic hand eye calibration.

Parallel Programming: Parallel programming models (message passing shared-variable, data-parallel, object-oriented, functional and logic models), problem partitioning, communication and synchronization mapping, domain and control decomposition, performance issues, software tools and parallel programming environments, automatic parallelization.

Performance Evaluation of Parallel Systems: Parallel architectures, performance metrics, characterization of parallel computers, scalibility, simulation, benchmarking, program characterization and algorithm performance.

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ENGINEERING MANAGEMENT

Head of Program: Prof. Dr. Nükhet YETİŞ

Management insight skills are essential for today's technical professionals. Engineering Management program has responded to this need with a graduate and doctoral course outline.

This program is suitable for technical persons who want to maintain their identity with their technical specialties while advancing into the management of technology.

Engineering Management Program develops technical management skills by combining qualitative approaches and quantitative techniques in a balanced curriculum which strengthens management credentials and increases technical competence.

EMP addresses the issues of technical management at five interrelated levels, simultaneously:

1. **Management of engineers and scientists;** motivation and leadership in engineering; technical obsolescence; communications transition from technical specialty to technical management.

2. **Management of research and development and engineering projects;** selection, evaluation, scheduling and control of technical project.

3. **Management of technical organizations;** design of technical organizations; authority/responsibility patterns in functional, project, matrix and venture organizations; the role of participative management in technical organization.

4. **Management of technical resources;** use of operation research, decision theory and computer simulations in research optimization; management of raw materials; technical manpower planning; financial management in engineering.

5. **Management of technological systems;** management innovation, entrepreneurship, productivity, technological planning and forecasting, technological risk management, law; R&D management. The curriculum suggested below presents a unified approach to the concepts, methods and decision processes at all these levels.

Language of Instruction: English

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MASTER'S PROGRAM IN ENGINEERING MANAGEMENT

Prerequisites: Statistics, Production Planning and Control, Marketing, Principles of Management, Managerial Economics, Financial Accounting, Managerial Accounting.

First Semester	Second Semester
Operating Research	Management Information Systems
Project Planning Evaluation and Control	Elective
Computer Models and Simulation	Elective
Elective	Network Theory and Project Scheduling

Ph.D. PROGRAM IN ENGINEERING MANAGEMENT

First Semester	Second Semester
Basic Industrial Process	Mathematical Modelling
Operations Research	Scheduling Theory
Elective	Elective
Elective	Process Systems Management

COURSE DESCRIPTIONS

Operations Research: Problem formulation, linear programming, simplex method, cost optimal analysis, duality theory, distribution problems, integer programming, combinatorial solution methods.

Computer Modelling and Simulation: Building simulation models, data analysis, time advancement mechanism, output analysis, model validation, new trends in simulation research and case application.

Project Planning Evaluation and Control: Introduction to project management concepts, project structure, project scope and its elements, effects on time and cost and techniques of network analysis and CPM applications are presented through lectures and computer laboratory sessions.

Network Theory and Project Scheduling: Network theory, graphs and their characteristics, transportation, assignment, shortest path, maximal flow, minimal cost network flow problems, theory and solutions, project scheduling, CPM/PERT, time-cost trade off, time resource trade-off problems, resource constrained project scheduling, combinatorial methods and heuristics.

Management Information Systems: The objectives of this course can be summed up as development of information systems in an organization with respect to operational and decision making process of all organizational and management level.

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This course is case-study oriented. Structure of a MIS, survey of information technology, organizational structure and management concepts, information-based support systems for planning, control and decision making, developing a long-range information systems plan, strategies for determination of information requirements, database requirements, user interface requirements, developing and implementing application systems, quality assurance and evaluation of information systems.

Project Management: Case studies in project management.

Total Quality Management: Total quality control, concepts and tools, relations, systematic, matrix, arrow diagrams, matrix data analysis, KJ method, process decision.

Computer Integrated Manufacturing: Automated transfer line, assembly lines, assembly line balancing, flexible manufacturing systems, automated material handling, numerical control manufacturing systems, shop floor control, group technology.

Advanced Manufacturing Planning Systems: Total manufacturing system, manufacturing strategy design, BOM, routing, work centers, production and resource planning, master scheduling, MRP, capacity management.

Computer Aided Engineering: Solid modeling, sheet metal design, assembly modeling, optimization, kinematic system analysis, element analysis and modeling, linear static analysis, linear thermal analysis, potential flow analysis, dynamic analysis.

Information Systems Analysis and Design: The course is intended to provide information systems development techniques including requirement analysis, design and implementation issues, and computer-aided system tools. The course is case-study oriented and students are encouraged to carry out small-size real life projects.

Information System Management: Information systems construction, information systems organization and management.

Data Communications: The study of remote access and communications between computers. Network architectures and topology, communication protocols and interfaces.

Database Management Systems: Review of the relational data model and introduction to distributed databases. DBMS architectures. Data dependencies, decomposition algorithms. Data dictionaries. Physical database design.

Foreign Expansion and Trade Techniques: Being a natural requirement or extension of the domestic growth and development process, foreign expansion is to be defined while determining its dimensions and planned as a strategic activity also indicating the characteristics and contributions of the foreign trade techniques necessary for its implementation. Methodical thinking and analytical decision-making, consensus and group/team work, behavioral styles and profiles, social foundations of marketing, domestic evaluation and foreign expansion, foreign trade strategy, Ja-

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part, example of successful foreign expansion, analysis of the foreign environment, major foreign trade techniques, incoters and payment terms.

Business Enterprises/Banks Credit Relations: Starting from the financing needs of the business enterprises, definition of the alternative sources of funds with special emphasis on bank loans, as well as determining the banks approach and practice to lending is the objective of this course.

Business Policy: This elective course integrating in the context of a total enterprise, aims at providing the attendants with comprehensive and analyzing skill and knowledge, diagnosing and dealing with the specific or general policy and strategy situations, from the top management point of standpoint. Mission and objectives, strategists, the organization and environment, internal analysis and diagnosis, strategy alternatives, strategic choices, implementation of the strategies are some of the main topics to be covered during the course.

Human Resource Management: Old and new functions of human resource management, profile of human resource manager, main activity fields of human resource management, supplying human resource, interviews while looking for employees for new job opportunities, how to make an interview evaluation of an interview, in 2000's, human resource management and its profile.

R & D Management: R&D strategies and structures, management of creativity, R&D project processes, management of R&D personnel.

Technology Management: Management of technology, technological forecasting, technological assessments, technology transfer, concurrent engineering, management of new product development, management of engineering changes.

Engineering Law: Basic legal concepts and procedures for understanding, the implications of engineering management decisions. Major emphasis on contracts and liabilities.

Research Methodology Management: This course is designed to provide the basic knowledge for 1) preparing a research project 2) developing the skills to evaluate research projects submitted to management by different departments of a firm. In this framework, students will learn about different research methods, the stages of a research project, data collection tools and their evaluation and apply this knowledge to a research project self developed.

Mathematical Modeling: The art of modeling, formulation of case studies and analysis of solutions, selection of the appropriate model, practical solutions to large scale programs.

Scheduling Theory: Introduction to scheduling theory includes the classification of scheduling problems, the performance criteria used in scheduling, disjunctive graph presentation of schedules, and the definition of optimality and activeness. The se-

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cond part of the course covers single machine problems, flow-shops and job-shops and related proofs and solution techniques. Finally, constructive algorithms, optimization and combined solution approaches are discussed. The course comes to an end by covering the resource constrained project scheduling problem which is the most generalized model in scheduling. Time-cost and time-duration trade-offs, renewable and non-renewable resource constraints and the recent trends in project scheduling research are discussed.

Individual Studies in EM: Students work individually to develop reseach studies covering a wide range of topics including the selection, secheduling, control and termination of R&D and engineering projects, R & D/engineering/marketing interfaces, team building and information patterns in engineering and R&D organizations, concurrent engineering.

Research Topics in EM: Students work individually or in small teams to develop projects reflecting the background gained in the other EM courses. The projects are chosen from critical research and implementation issues in engineering management.

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ENVIRONMENTAL ENGINEERING

Head of Program: Prof. Dr. Ahmet SAATÇİ

There is enormous demand on water supply, wastewater collection and disposal in Turkey. As the population of the cities increase tremendously, the problems of solid waste disposal and air pollution become more prominent and need urgent solutions.

The graduate program in Environmental Engineering aims to provide a highly sound base of engineering fundamentals to solve environmental engineering problems.

The M.S. degree program emphasizes biological, chemical, and physical phenomena and engineering principles, laboratory and computational skills, computer applications to the analysis and solution of the environmental engineering problems.

Language of Instruction: English

MASTER'S PROGRAM IN ENVIRONMENTAL ENGINEERING

Prerequisite courses from the undergraduate program are: Environmental Engineering Analysis I and II, Environmental Engineering Unit Operations and Processes, Water Supply Engineering, Wastewater Engineering.

First Semester	Second Semester
Applied Mathematics for Engineers	Transport Phenomena in Environmental Engineering
Elective	Advanced Techniques of Environmental Engineering Analysis
Elective	Elective
Elective	Elective

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COURSE DESCRIPTIONS

Advanced Techniques of Environmental Engineering: General considerations in analysis, optical methods, ultra violet, visible, infrared, X ray absorption applications in environmental engineering analyse, emission and flame spectroscopy, selective ion electrodes, mass spectrometry, gas and liquid chromatography theory and applications, electrical seperation methods.

Transport Phenomena in Environmental Engineering: Fundamental equations of fluid flow, heat transfer and mass transfer, mathematical solution methods, numerical methods, selected applications in environmental engineering.

Applied Mathematics for Engineers: Ordinary and partial differential equations. Vector analysis. Optimization and the calculus of variations.

Theory and Application of Filtration: Classification of filtration systems, filtration-process variables, particle-removal mechanisms, general analysis of filtration operation, analysis of water and wastewater filtration. Theory of rapid sand filters. Theory of declining rate filtration. Application of the BDST and logit methods to deep bed filter design. Filter indices. Computer programs of deep bed filtration process and application to filtrion data. Deep bed filtration experiments.

Theory and Application of Flocculation: Theory of coagulation and flocculation and processes and their applications in environmental engineering. Destabilization of colloids. Classifications of polymers used in water treatment. Mechanisms of coagulation with polymers. Laboratory tests on use of aluminum, ferric salts and polymers in local drinking water sources. Application of alum salts and polymers in local water treatment plants. Use of microsand as a coagulant aid. Enhanced coagulation.

Membrane Processes: Classification of separation techniques, osmosis and osmotic pressure, kinds of membranes, cellulose acetate and polyamide membranes, properties, pretreatment of sea water and brackish water before reverse osmosis, economics of reverse osmosis and comparison with other desalination techniques such as MSF, ultrafiltration and electrodialysis.

Reactor Design: Chemical kinetics. Design of ideal and non-ideal reactors. Reactors in water and wastewater treatment. Introduction to heterogeneous processes.

Physico Chemical Processes in Environmental Engineering: Physico-chemical processes encompassing quality transformations in natural waters, water supplies, and municipal and industrial wastewaters. Enhanced coagulation and flocculation, sedimentation, filtration, adsorption, ion exchange and disinfection.

Diffusion in Environment: Molecular diffusion, turbulent diffusion, atmospheric diffusion, dispersion, mixing in rivers, mixing in reservoirs, mixing in estuaries, river, estuary and reservoir models, relative diffusion.

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Removal of Organics from Water: Measurement and removal of organics in water and wastewater such as color, phenol, cresols, carbohydrates, fats, proteins, grease, surfactants, oils, pesticides, toxic and non-biodegradable soluble organics. Removal methods such as carbon adsorption, biological treatment and removal in natural systems. Laboratory experiments.

Advanced Mass Transfer Operations: Theory and design of mass transfer operations in environmental engineering with emphasis on water and wastewater treatment and air pollution control.

Water Reuse: Introduction to the basic concepts and issues involved in water reuse. Water conservation methods.

Advanced Wastewater Treatment: Treatment of residual suspended solids, control of nutrients, combined removal of nitrogen and phosphorus by biological methods, treatment of complex organics, conversion of ammonia by biological nitrification.

Micropollutants: Trace organic and inorganic contaminants in water supplies. Sources of trace contaminants such as pesticides, polychlorinated biphenyls, volatile organics, standard trihalomethane potential, total organic halogens. Special treatment methods for the removal of trace contaminants.

Advanced Anaerobic Treatment: Possibilities and potentials of anaerobic wastewater treatment, operation of anaerobic reactors, application of upflow anaerobic sludge blanket process for treatment of complex wastewaters.

Hazardous and Toxic Wastes: Hazardous and toxic wastes collection, identification, classification, handling and disposal. Management practices of hazardous and toxic wastes.

Advanced Solid Wastes Systems and Solid Wastes Analysis: Legislative trends and impacts of solid waste management (SWM), implementation of solid waste management issues, planning, siting and permitting of solid waste management facilities.

Advanced Air Pollution: Advanced air pollution modeling techniques. Air pollution control philosophies and laws. Air pollutants and global climate change. Meteorology for air pollution modelling. Special topics in advanced air pollution.

Air Pollution Control Engineering: Advanced topics in the control of particulates. Advanced topics in the control of sulfur oxides. Advanced topics in the control of nitrogen oxides. Meteorology for air pollution control engineers. Special topics in air pollution control engineering.

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Atmospheric Dispersion: Physics of atmospheric dispersion. Diffusion models. Multiple cell models. Advanced Gaussian Plume Dispersion model. Special topics in atmospheric dispersion. Physics of atmospheric dispersion.

Environmental Engineering Structures Design: Structural systems, structural materials loads on structures, idealized structures for analysis, influence lines, deflection of structures, ultimate strength design of various structures.

Computer Applications and Modelling in Environmental Engineering: Pipe Network Analysis using computers (Hardy Cross Method, Linear Method, and Dead and Method). Comparison of the results of these methods and application to a real case study.
Writing small programs (Water indices, Chezy, Manning Equations, minor and friction losses in pipes, hydraulic elements, gradually varied flow, Langmuir-Freundlich isotherms, BDST Method, Dispersion with bulk flow)
Lake hydraulics and Eutrophication modeling.
Package programs: SWAMI (Strategic Waste Minimization Initiative), WASP (Water Analysis Simulation Program) and programs prepared by the Association of Environmental Engineers Association (AEEP).

Special Topics in Environmental Engineering: Special topics related to environmental problems, literature survey and research, topics of recent interest of faculty and students.

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INDUSTRIAL ENGINEERING

Head of Program: Prof. Dr. Nüket YETİŞ

Industrial Engineer applies the knowledge to design and develop usable devices, structures and processes. Industrial Engineer aims to do jobs and projects and creates what had not been. Industrial Engineering has a wide horizon of possibilities. Industrial Engineer seeks solutions that are economical. Industrial Engineers exercise care in the management of money, time, materials, and other resources. In short, Industrial Engineers are concerned with the design, improvement, and installation of integrated systems of people, materials, and energy in the production of either goods or services. They deal with and motivate personnel in finding workable, effective, and optimum solutions to production and service problems while retaining high standards of quality. They view the problems in macro angle and long-term fashion.

The activities of our graduates fall into one of the categories below: Those related to the plant layout. Those designed to increase worker productivity. Those designed to control the quality of products. Those designed to reduce and control costs. Those related to improve efficiency, optimality and speed of production and services.

Although most of our graduates are employed by manufacturing industries, they may also be found working in other settings such as in hospitals, airlines, rail roads, retail businesses, municipals and government agencies, banks, insurance and tourism agencies. Faculty support of Computer Integrated Manufacturing (CIM) laboratory, computer laboratories, CNC and Coputerized Statistical Process Control laboratory help our graduates to actuate what they learn in lectures. The best laboratory for Industrial Engineering, of course, is the city of Istanbul.

Language of Instruction: English

MASTER'S PROGRAM IN INDUSTRIAL ENGINEERING

Prerequisites: Cost Accounting and Engineering Economics, Ergonomics, Production Planning and Control, Statistic for Industrial Engineers, Quality Assurance, Introduction to Project Management and Network Theory, Operations Research, Introducton to Stochastic Processes.

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First Semester

Optimization Techniques
Advanced Production Methods
Modelling Techniques
Forecasting Techniques

Second Semester

Game Theory and Executive Advanced Decision Making
Elective
Elective

Ph.D. PROGRAM IN INDUSTRIAL ENGINEERING

Prerequisites: Refer to M. Sc Program for possible prerequisite courses.

First Semester

Dynamic Programming
Manufacturing Policy
Convex Programming
Data Base Design

Second Semester

Stochastic and Chance Constrained Programming
Elective
Elective
Elective

COURSE DESCRIPTIONS

Productivity Engineering: Fundamental concepts of productivity, productivity indices; production and cost functions; efficiency and effectiveness; productivity analysis in production, financial productivity analysis, efficiency and effectiveness in marketing; productivity based management and engineering.

Optimization Techniques: Historical development. Engineering applications. Classification of optimization problems. Single-variable optimization, one dimensional minimization methods (Exhaustive, Dichotomous, Fibonacci Methods). Multivariable optimization without constraints, gradient and Newton's methods. Multivariable optimization with constraints, penalty function method, linearization method. Calculus of variations. Euler-Lagrange equation. Dynamic programming, multistage decision processes, principle of optimality, computational procedure in dynamic programming, allocation processes. Optimal control, minimum time problem, Pontryagin maximum principle, sufficiency of the maximum principle for optimality. Application to synthesis of railroad train example.

Modelling Techniques: Types and characteristics of model, systems concepts, basic quantitative techniques used in modelling, industrial dynamics, econometric and energy modelling, use of quantitative models in business and industry.

Game Theory and Executive Decision Making: Two-person, zero-sum and constant-sum games, strategies for 2-person games, graphical solutions, zero-sum games, application of linear programming, non-constant sumgames, introduction to n-person games, cores of games, shapley value.

Multiple Criteria Decision Making (MCDM): MCDM-balancing a variety of needs and goals. Definition of MCDM. Definitions of objectives, goals, criteria; conflicting

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criteria. Multiple criteria optimization, concepts of ideal, optimal and efficient solutions, domination set. Concept of weights, determining the weights. Techniques: single objective approach, global criterion method, utility function method, compromise constraint method. Biciriterion LP Point Estimate Weight-Sums approach: mathematical motivation, detecting efficient points using composite gradients. Vector-maximum algorithm. Interactive procedures; STEM algorithm. Game-Theoretic technique, Geoffrion-Dyer-Feinberg procedure: numerical example. Zionts-Wallenius method: numerical example. De Novo programming: theoretical foundation, effects of multiple pricing. MCDM applications in production management and business management.

Network Flows: Transportation problems, their formulation, transportation simplex method, assignment, transshipment problems, shortest path problems, maximum flow problems, CPM and PERT, minimum spanning tree problems, formulation as a minimum cost network flow problems, idea of network simplex method.

Advanced Simulation Methods: Fundamentals of modeling, simulation methodology, time-flow mechanisms, random number and random variate generation, analysis of simulation outputs, validation techniques, variance-reduction techniques, experimental design and optimization, simulation languages.

Forecasting Techniques: Demand patterns and filtering, horizontal models, quadratic models, regression, discounting and adaptive smoothing models, trigonometric models, seasonal models, adaptive control models, Box-Jenkins models, special techniques in forecasting, multidimensional forecasting models, forecast errors and tracking signals, customer service safety stock.

Sampling Techniques and Inferential Statistics: Theory of sampling, elements of sampling plan, operational definitions of expected value and standard error, uncertainties not attributable to sampling, replicated sampling designs, case studies with application to business and industry.

Design of Experiments: Information and experiment, qualitative and quantitative factors, linear statistical models, noise-reducing experimental designs, inference making, analysis of variance, effect of coding on the analysis, maximum or minimum response, fractional factorial experiments and incomplete block designs, completely random model, mixed models.

Advanced Reliability Engineering: The growing importance of reliability, analysis of deterministic, probabilistic, and stochastic reliability models, coherent structures, min-path and min-cut representations, computing system reliability, reliability importance of components, systems with associated components, bounds on systems reliability, stock and wear models, reliability operations and classes of life distributions, reliability improvement and allocation, availability theory for multi-component systems, optimal management of systems by replacement and preventive maintenance.

Advanced Production Methods: Capacity analysis, automation and machine lines, AGV (Automated Guided Vehicle), Plant Locations, maintenance, product design,

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budgeting, production planning and control, order control, CAD/CAM integration, job sequencing and scheduling, aggregate production planning, numerical controlled production, lasers in production, flexible manufacturing, computer aided integrated production systems, course is supported with case studies.

Scheduling Theory: Introduction to scheduling theory includes the classification of scheduling problems, the performance criteria used in scheduling, disjunctive graph presentation of schedules and the definition of optimality and activeness. The second part of the course covers single machine problems, flow-shops and job-shops and related proofs and solution techniques. Finally, constructive algorithms, optimization and combined solution approaches are discussed. The course comes to an end by covering the resource constrained project scheduling problem which is the most generalized model in scheduling. Time-cost and time-duration trade-offs, renewable and non-renewable resource constraints and the recent trends in project scheduling research are discussed.

Advanced Plant Layout and Design: The plant layout problem, plant layout function, factors to consider in plant layout, production planning, material handling equipments, Operation planning, Layout planning, making the layout, plant location, industrial plant buildings.

Advanced Material Handling Systems: Transporing equipments, elevating equipments, conveying equipments, transferring equipments, self-loading equipments, bulk-handling equipments.

CAD-CAM and Tool Design: The digital computer as a design aid, interactive CAD systems, computer aided design systems, operations of the GCSADS draughting system, using the draughting system, application of CAD techniques to finite element data preparation, computer aided manufacture, the use of micro computers in CAD/CAM systems, a micro-computer based CAD/CAM systems. Implication of CAD/CAM for industry.

Facilities and Equipment Planning: Applications of facility planning, facility location, materials handling equipments planning, operations planning.

Robotics and Flexible Manufacturing: Industrial robots and their components, IE techniques for planning robot applications, implementation of robot applications, implementation of robot systems.

Dynamic Programming: Introduction to dynamic programming, puzzles and problems, network problem, inventory problem, Wagner-Whitin Algorithm, resource allocation, equipment replacement problem, formulating dynamic programming recursion, theory (separability, monotonicity of return), forward recursion, computational methods, probabilistic dynamic programming problems, probabilistic inventory models, maximizing the probability of event.

Integer Programming: Graphs and integer programs, enumeration methods, use of linear programming theory, cutting plane methods, knapsack problems, set covering

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and partitioning problems, group theoretic methods, nonlinear integer programs, case applications with computer package programs.

Convex Programming: Convex analysis: convex sets, convex hulls, Caratheodory theorem, separation theorems, support function on convex set, convex cones, Farkas-Minkowski theorem, convex function, subgradient of convex functions, minimum of convex functions. Convex extremal problems: problem with inequality constraints, Kuhn-Tucker theorem, duality in convex programming: perturbation method, linear and quadratic programming. Methods of convex programming: methods of feasible direction, the gradient projection method, the method of linearization, penalty function methods, barrier function methods.

Database Design: Database processing systems, database application system components, database management systems, specifying database requirements, relation definition and normalization, logical database design, designing database applications, transaction processing, network data model, fundamentals of distributed database processing, file organization, data structures for database processing.

Stochastic and Chance Constrained Programming: Review of stochastic processes and programming, dyadic models and subdual methods, double-reverse method, networks and models of incidence type, mixing routines for a class of coupled models, constrained games, measures of strategic information, advertising demand-capture games.

Queuing Theory: Elements of queuing systems, queuing characteristics, observing the queuing system and measuring the performance of the system, cumulative arrival and departure diagrams, arrival process, simulation, steady-state analysis, nonstationary arrivals, reducing delay through changes in the service process, reducing delay through changes in the arrival process, queue discipline, queuing networks, queue design.

Manufacturing Policy: Trigger and periodic decision system, factory warehouse decision system, linear decision rules for manufacturing, decision rules with continuous time, other approaches to manufacturing planning over time horizon, simulated manufacturing, maintenance models, accounting and budgeting for manufacturing policy.

Advanced Investment Design: Decision processes, cost terminology, sensitivity and break-even analyses, rate of return, engineering decision making, value analyses, cost of capital, present value systems, mutually exclusive investments, analysis of risk and uncertainty, utility theory, time management, economic problem-solving process, measuring the worth of investment, depreciation and income tax consideration, cost and benefit analysis, cost effectiveness studies, matrix decision models, decisions under assumed certainty, decisions under risk, decisions under uncertainty, sequential decisions, multiple objectives. The course will be supplemented by case studies and computer applications.

Regenerative Inventory Methods: Inventories in the economy, theory of firm, Erich Schneider's inventory control analysis, multi-stage inventory model, determining production quantities under aggregate constraints, periodic scheduling of buffer stocks with fixed lots, planning Trigger inventories with fixed lot sizes, lot sizes and buffer inventories under the reorder point system, forecasting sales of individual products with exponentially weighted moving averages.

Advanced Quality Control and Design: Acceptance sampling by attributes; single sampling plans, double and sequential fraction-defective sampling plans, multiple fraction-defective sampling plans. ISO 9000 and military standard acceptance sampling by variance, comparison of various types of sampling plans, rectifying inspection for lot-by-lot sampling, sampling plans for continuous production, general theory of control charts and variable control charts.

Demand Analysis: Demand analysis for marketing decision, demographic demand analysis, models and measures of population in time and space, economic demand analysis, demand models, measures and modelling for planning, new trends in demand analysis, demand models, measures of demand, measures and modelling for planning, new trends in demand analysis, demand forecasting.

Markovian Decision Processes: Markov processes with rewards, value-iteration method for the solution of sequential decision processes, policy iteration method for the solution of sequential decision processes, Markovian decision processes with and without discounting, dynamic programming viewpoint of Markovian decison processes.

Planning For National Technology Policy: In this course some of the national economic sectors will be considered in planning and policy formulation, contribution to technology development. The course will be supplemented with cases from Turkey and Turkic countries.

Systems Engineering: Analysis of linear continuous systems, controllability, observability and stability, socio economic systems, optimal control.

Value Engineering: Basic concepts of value; introduction to value engineering, methodology of value engineering, theory of value, economic value, product valuation; production, consumption and equilibrium, optimal value systems; criteria for applying value engineering, management review and action, organization for value engineering, case studies.

Current Topics in Industrial Engineering: Recent advances and developments in industrial engineering will be brought to the class discussion.

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MECHANICAL ENGINEERING

Head of Program: Prof. Dr. Eralp ÖZİL

Mechanical engineering department started its master of science program in 1994. The graduate program offers specialization in two branches of mechanical engineering. These are Thermal Sciences and Process Control. These branches blend well with the other programs of the engineering faculty and is also in line with the needs of the country.

The program is designed to provide the student both with the fundamentals and applications of energy and environment related issues of the modern society with up to date techniques, methods and means.

The graduate student who enrolls to the program is expected two have a strong mathematical background, research ability and good computer knowledge.

Language of Instruction: English

MASTER'S IN MECHANICAL ENGINEERING

Prerequisites: Thermodynamics, Heat Transfer, Fluid Mechanics I, Mechanical Engineering Design, Automatic Control Concepts, Process Control, Thermal Environmental Engineering.

First Semester	Second Semester
Thermodynamics	Advanced Heat & Means Transfer
Engineering Mathematics	Intelligent Instruments
Advanced Fluid Mechanics I	Elective
Elective	Elective

COURSE DESCRIPTIONS

Thermodynamics: Fundamentals of classical thermodynamics, first law, equilibrium concept, second law, Euler Gibbs-Duhem relations, entropy production, Maxwell Relations and thermodynamic derivatives, stability, phase transitions, thermodynamic cycles.

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Engineering Mathematics: Initial and boundary value problems for ordinary differential equations, partial differential equations, various finite difference and finite element methods and their applications.

Advanced Fluid Mechanics I: Continuum concept, conservation equations for viscous fluids, boundary layer, Navier-Stokes equations derivation and applications, approximate methods, laminar boundary layers, stability criteria, introduction to turbulent flow.

Advanced Heat & Mass Transfer: General heat equation, one dimensional steady state conduction, heat transfer from extended surfaces, two dimensional steady state conduction, transient conduction, fundamental concepts of radiation, exchange between surfaces, convection boundary layers, momentum and energy equations, exact solutions, approximate methods, flow in tubes, external flow, free convection, diffusion mass transfer.

Intelligent Instruments: Digital computer control loops, from continuous-time to discrete-time systems z-transforms, discrete-time response of dynamic systems, design of digital controllers.

Combustion: Review of chemical thermodynamics and reaction kinetics, fuel characteristics and explosion limits, conservation equation Schvab-Zeldovic formulation, diffusion flame, premixed flames ignition and pollution.

Advanced Fluid Mechanics II: Review of laminar flow conditions, transition to turbulence, conservation equations, turbulent boundary layer equations, integral solutions, statistical analysis, introduction to computational fluid mechanics.

Energy Conversion: Introduction to power generation, fuels, internal combustion engines, compressors, turbines, gas turbines, direct energy conversion, power plants, environmental issues.

Solar Energy and Its Utilization: Review of fundamentals of solar energy utilization, solar collectors, concentrating collectors and their applications, passive systems, building heat transfer, solar power production.

Introduction to Renewable Energy Systems and Technologies: Energy and the environment, review of thermal pollution aspects, introduction to solar, wind and other renewable technologies, active solar systems, wind turbines design considerations, geothermal energy and related technologies, special topics in renewable energy sources.

Advanced Heating, Ventilation and Air Conditioning: Review of psychrometrics, heat loss and gain calculations, computer modelling of building heat transfer, pipe flow, losses, flow in ducts, pressure drop calculations, new codes and regulations, VAV control, air distribution control, introduction to air handling unit design.

Automatic Control Concepts: Design aspects of a process control system, modelling consideration for control purposes analysis of the dynamic behavior of processes, feedback-controlled processes, advanced control systems.

Aspen Aided Process Simulation: Fundamentals of process simulation, Introduction to ASPEN software, heat transfer simulation, pump and compressor simulation, absorption towar simulation.

Separation Processes: New separation techniques with special emphasis on membrane processes, chromatographic separations, electrophoresis and dyalsis.

Air Pollution Assessment Control Mechanisms: Emission sources, transfer contaminants through atmosphere layers, control concepts, design of control devices, air-solid alparators, filters, cyclones, absorption towers, electrofilters.

Advanced Phase Equilibria: Criteria of equilibrium and stability, single phase simple systems, multiphase complex systems, phase equilibria, theoretical analysis of stage processes, interpretation of second law.

Fluidized Bed Combustion: Introduction to fuidized bed behaviour, combustion of different grade solid fuels in atmospheric, pressurized and circulating fludized bed systems with special emphasize on in bed SO2 retention. Design, environment and economics related aspects.

Advanced Chemical Kinetics and Reactor Design: Review of chemical stoichiometry, Conservation and rate laws, the concepts and principles of isothermal and non-isothermal reactor design, applications chosen from industry collection and analysis of real rate data and analysis of non-ideal reactors.

Second Law Analysis and Thermoeconomics of Energy Systems: Presentation of the energy concept and energy losses, applications in energy systems encountered in thermal energy and/or power generation and manufacturing industries, application of the principles of thermoeconomics towards energy-based costing and energy aided cost-minimization.

MARMARA ÜNİVERSİTESİ

SCIENCE

BIOLOGY

Head of Program: Prof. Dr. Belma Semiz DERMAN

The department offers M.S. and Ph.D. degrees. Botany, Microbiology, Plant Diseases, General Biology, Molecular Biology, Zoology, Hydrobiology are the main research fields in the department.

Language of Instruction: Turkish

Prerequisites: The applicants must have a Bachelor's Degree in Biology or its equivalent. For probable prerequisites refer to the undergraduate program of the Department of Biology.

MASTER'S PROGRAM IN BIOLOGY

First Semester	Second Semester
Plant Physiology I	Cell Biology I
Elective	Elective
Elective	Elective

Ph.D. PROGRAM IN BIOLOGY

First Semester	Second Semester
Plant Physiology I	Cell Biology I
Elective	Elective
Elective	Elective
Elective	Elective

COURSE DESCRIPTIONS

Plant Physiology I: Study of the processes which go on in plants including osmosis and the components of water potential; transpiration; transport across membranes; the translocation of solutes; enzymes, proteins and amino acids; photosynthesis; respiration.

Plant Physiology II: In this course practical work is performed.

Environmental Microbiology: Some knowledge about microorganisms which are found throughout the environment. The course includes (1) food dairy and industrial microbiology, (2) Soil and agricultural microbiology, and (3). Water and wastewater microbiology.

Cultural Techniques for Microorganism: A methodology to tell the students how to do something in the laboratory or field with microorganisms.

Mycology: This course is aimed at giving a general introduction to fungi, explains the mycological terminology to students with a detailed knowledge and provides a common basis of fungal reproduction and the classification.

Soilborne Plant Pathogens: The course attempts to bring together sufficient information on soilborne plant pathogens which are organized mainly to one subject (soil, water, temperature, soil aeration, etc.), but each subject is not an independent entity.

Microbiology: A survey of comparative biology of microorganisms, including bacteria, viruses and fungi. Fundamental concepts are presented.

Plant Disease: Some definitions in plant pathology are presented to provide clarity and understanding in disease concept. Causal agents, symptoms and some specific diseases are also explained in the course.

The Biological Effects of Air Pollution: The course in general is aimed at giving some details on pollution agents in air. The effects of these agents on plant ecosystems and interactions are discussed.

Mushrooms for Human Nutrition: A course on harmful and edible fungi which constitute a valuable source of supplementary food. The course aims to stimulate those interested in mushroom research.

The Cultivation of Edible Fungi: This course is intended for those interested in edible mushrooms. The cultivation of fungi, materials for media, methods for producing these media, the use of manual labor and machines etc. are explained for various species of mushrooms.

Cytoplasmic Organelles I-II: This course treats the structure and functions of the organelles which are situated in the cytoplasm and joining in the metabolic activity of the cell.

Introduction to Cytochemistry: In this course in general the reactions inside the cell and the organelles (e.g. lysosom) basing on the principles of cytochemist and cytochemical reactivities are described.

Electron Microscopy Techniques: In this course the techniques which are used in ultrastructural investigations are discussed.

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Methods used in Molecular Biology: The aim of this course is to teach students the most prominent methods used today in molecular biology. These include the methods used in genetic engineering and experimental cell biology. The extraction of RNA and the cell free-translation system of protein synthesis with the analysis of these products in SDS or IEF gel electrophoresis are also described in detail.

Cell Biology I-II: The topic of this course is the molecular basis for cellular structure and function. These are described in three sections. The sections cover cellular energetics, regulation of cellular function, and cell specialization, respectively. There is also a section covering some of the tools and techniques used in experimental biology.

Genetics I-II: The purpose of this course is to provide detailed information about genetics, the study of heredity and to present some of the experiments and reasoning through which this information has been achieved. The course covers the following topics. Identification, transmission and distribution of genetic material. It also includes the arrangement, structure and function of genetic material.

Tissue and Cell Culture Technique I-II: The aim of this course is to introduce the students to the importance of experimental research with cell and tissue culture techniques. The course covers how to use the tools, to prepare solutions and to dissect the tissues from avian and animal species. Furthermore, the advantages and the disadvantages of these techniques are also discussed.

Molecular Biology I-II: The course of molecular biology introduces the students to the molecules of cells and their functions. The chemical reactions, coupled reactions and group transfers with their importance in development and differentiation are also discussed. Furthermore, bacterial cell, replication of RNA, transcription of RNA and regulation of protein synthesis and function are included. In addition the replications of viruses, the control of cell proliferation, embriology at the molecular level, the problem of antibody synthesis and the viral origin of cancer are discussed too.

Oceanography: TA branch of science which deals with the physical, chemical and geological characteristics of the oceans and seas on the earth, searching for the origins of the animal and plant societies in it.

Zoogeography: A branch of science which deals with the spreading of animals on the different parts of the earth.

Introduction to Marine Biology: This course examines the biologies of the organisms living in the sea and subjects in relation to the physical and chemical oceanography.

Fish Systematics I-II: The types and varieties of fish species and their relationships with each other are studied.

Ichtyology: Classification of fish species and exploration of their evolution, morphology and anatomy along with their physiology are studied.

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CHEMISTRY

Head of Program: Prof. Dr. Nurbay GÜLTEKİN

The Department of Chemistry offers graduate programs to students who are motivated to increase their understanding of chemistry. Students who complete these programs with a M.S. or Ph.D. degree enter a variety of occupations: In the chemical industry, quality control laboratories and in college and university teaching as well as working in research institutes. Research/development laboratories of the Department of Chemistry are focused on five major disciplines.

1) **Inorganic Chemistry:** Research in this discipline centers about synthesis and characterization of transition metal complexes as well as some interesting organometallic compounds.

2) **Organic Chemistry:** The synthesis of new compounds and the discovery of new methods for the synthesis of biologically active amine compounds as well as crown ethers occupy the major time and effort of the organic chemists in our department.

3) **Analytical Chemistry:** Industrial and governmental concerns with quality control and environmental monitoring as well as research on new analytical and industrial techniques have resulted in a growing demand for trained analytical chemist who are familiar with modern equipments, and with modern concept of chemistry. Research areas are on the environmental, instrumental,analytical, and industrial process development fields.

4) **Physical Chemistry:** Electrochemistry (organic and analytical), anlonic, cationic and radical polimerizations, experimental and research on transport properties of heavy hydrocarbons and coal liquids, second law analysis of thermodynamics process, greenhouse gases and global climate change, safer forms in Turkish coals are the major research areas of this section.

5) **Biochemistry:** Major research area at present is seperation, identification and sequencing of proteins, particularly from medicinal plants and determination of their biological activities. The final aim is to determine the three dimensional chemical structure and correlate the structure with biological function.

Language of Instruction: Turkish

MARMARA ÜNİVERSİTESİ YAYINEVİ

MASTER'S PROGRAM IN ANALYTICAL CHEMISTRY

Prerequisites: General Chemistry I-II, Analytical Chemistry I-II, Physical Chemistry I-II, Instrumental Analysis, Mathematical Applications in Chemistry.

First Semester	Second Semester
Advanced Instrumental Analysis I	Chromatography
Statistics in Chemistry I	Elective
Chemical Equilibria	Elective
	Graduate Seminar

Ph.D. PROGRAM IN ANALYTICAL CHEMISTRY

Prerequisites: General Chemistry I-II, Analytical Chemistry I-II, Physical Chemistry I-II, Organic Chemistry, Advanced Instrumental Analysis, Statistics in Chemistry.

First Semester	Second Semester
Advanced Coordination Chemistry I	Advanced Instrumental Analysis II
Organic Analytical Chemistry	Elective
Elective	Elective
Elective	Statistics in Chemistry II
	Graduate Seminar

MASTER'S PROGRAM IN BIOCHEMISTRY

Prerequisites: General Chemistry I-II, Analytical Chemistry I-II, Biochemistry, Organic Chemistry I-II, Instrumental Analysis.

First Semester	Second Semester
Advanced Instrumental Analysis I	Advanced Biochemistry II
Statistics in Chemistry I	Elective
Advanced Biochemistry I	Elective
Advanced Molecular Biology I	Graduate Seminar

Ph.D. PROGRAM IN BIOCHEMISTRY

Prerequisites: General Chemistry I-II, Biochemistry, Organic Chemistry I-II, Advanced Molecular Biology I-II, Advanced Instrumental Analysis I, Advanced Biochemistry I-II.

First Semester

Nucleic Acid Chemistry
Protein Chemistry
Principles of Immunology and Immunological Techniques
Elective

Second Semester

Advanced Instrumental Analysis II
Elective
Elective
Graduate Seminar

MASTER'S PROGRAM IN INORGANIC CHEMISTRY

Prerequisites: General Chemistry I-II, Organic Chemistry I-II, Inorganic Chemistry, Instrumental Analysis, Physical Chemistry I-II.

First Semester

Advanced Instrumental Analysis I
Advanced Inorganic Chemistry I
Elective

Second Semester

Advanced Inorganic Chemistry II
Elective
Elective
Graduate Seminar

Ph.D. PROGRAM IN INORGANIC CHEMISTRY

Prerequisites: General Chemistry I-II, Analytical Chemistry I-II Physical Chemistry I-II, Inorganic Chemistry, Instrumental Analysis, Coordination Chemistry, Advanced Instrumental Analysis, Statistics in Chemistry.

First Semester

Advanced Coordination Chemistry I
Solid Phase Reactions
Elective
Elective

Second Semester

Advanced Instrumental Analysis II
Elective
Elective
Elective
Graduate Seminar

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MASTER'S PROGRAM IN ORGANIC CHEMISTRY

Prerequisites: General Chemistry I-II, Organic Chemistry I-II-III, Instrumental Analysis, Organic Reaction Mechanisms, Physical Chemistry I-II.

First Semester	Second Semester
Advanced Instrumental Analysis I	Organic Spectroscopy and Applications
Mechanisms in Organic Chemistry I	Elective
Elective	Graduate Seminar

Ph.D. PROGRAM IN ORGANIC CHEMISTRY

Prerequisites: General Chemistry I-II, Organic Chemistry I-II-III, Organic Reaction Mechanisms, Instrumental Analysis, Advanced Instrumental Analysis, Organic Spectroscopy and Applications.

First Semester	Second Semester
Mechanisms in Organic Chemistry II	Advanced Instrumental Analysis II
Elective	Elective
Elective	Elective
Elective	Gradate Seminar

MASTER'S PROGRAM IN PHYSICAL CHEMISTRY

Prerequisites: General Chemistry I-II, Analytical Chemistry I-II, Physical Chemistry I-II, Instrumental Analysis, Mathematical Applications in Chemistry

First Semester	Second Semester
Advanced Instrumental Analysis I	Advanced Physical Chemistry II
Statistics in Chemistry I	Elective
Advanced Physical Chemistry I	Elective

Ph.D. PROGRAM IN PHYSICAL CHEMISTRY

Prerequisites: General Chemistry I-II, Physical Chemistry I-II, Analytical Chemistry I-II, Mathematical Applications in Chemistry, Advanced Instrumental Analysis, Statistics in Chemistry.

First Semester	Second Semester
Industrial Instrumentation Technology	Advanced Instrumental Analysis II
Heterogenous Catalysis	Statistics in Chemistry II
Elective	Elective
Elective	Graduate Seminar

COURSE DESCRIPTIONS

Advanced Inorganic Chemistry I-II: Prescribed courses for master students in inorganic chemistry. A survey of selected topics in modern inorganic chemistry.

Nonferrous Metallurgy: Elective course for master students. A survey of metallurgical processes of nonferrous metals such as copper, arsenic, bismuth, antimony, zinc, aluminum, chromium and manganese.

Boron and Silicon Chemistry: Elective course for master students. General properties, production technologies structures and applications of boron, silicon and their compounds.

Special Topics in Inorganic Chemistry I: Elective course for master students.

Special Topics in Inorganic Chemistry II: Elective course for doctorate students.

Advanced Computer Programming in Chemistry I-II: Interpolation and approximation techniques. Iterative methods. Optimization methods, lineal and nonlinear regression. Numerical solutions of differential equations.

The Chemistry of Solvent Extraction: Industrial inorganic processes. Calculation of contractors with longitudinal mixing.

Statistics in Chemistry I: Prescribed course for master students in Analytical, Physical and Bio chemistry. Statistical methods and their applications in chemical research and industry.

Statistics in Chemistry II: Prescribed course for doctorate students in Analytical, Physical and Biochemistry. Statistical methods and their applications in chemical research and industry.

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Advanced Instrumental Analysis I: Prescribed course for all master students in Chemistry. Modern Analytical methods, spectroscopy, UV and visible spectroscopy, emission spectroscopy, chromatography in general.

Advanced Instrumental Analysis II: Prescribed course for all doctorate students in Chemistry. Chromatography in detail. Luminescence, fluorescence, phosphorescence, NMR and mass spectra interpretation, polarography.

Chemical Equilibria: Elective course for master students. Reaction rates and chemical equilibria. Applications. Complex formation, extraction, catalysis.

Special Topics in Analytical Chemistry I: Elective course for master students. Analytical applications of UV, Visible, IR spectroscopy in research and in industry.

Special Topics in Analytical Chemistry II: Elective course for doctorate students. New Topics in Analytical Chemistry. Recent applications.

Chromatography: Prescribed course for master students in Analytical Chemistry. Chromatographic applications.

Environmental Chemistry: Elective course for master students. Chemical reactions in the environment. Chemical analysis methods. Interpretations.

Advanced Physical Chemistry I: Prescribed course for master students in Physical Chemistry. The phase rule, graphical representation of three component systems, systems with solid phases, systems of two salts and water, formation of a double salt.

Advanced Physical Chemistry II: Prescribed course for master students in Physical Chemistry. Rate laws, fundamentals of spectroscopy, vibration, rotation, translation, rotational spectrum, the vibration-rotation spectrum, the Raman spectrum.

Chemistry of Transition Metals I: Elective course for master students. Chemistry of transition metals.

Chemistry of Transition Metals II: Elective course for doctorate students. Advanced topics in the chemistry of transition metals.

Mechanisms in Organic Chemistry I: Prescribed course for master students in Organic Chemistry. Mechanisms of nucleophilic reactions, elimination and rearrangement will be presented. Stereochemistry and configurational analysis will also be discussed.

Mechanism in Organic Chemistry II: Prescribed course for doctorate students in Organic Chemistry. Carbine, nitrene and aryne will be presented.

Organic Spectroscopy and Applications: Prescribed course for master students in Organic Chemistry. The recent developments in magnetic resonance spectrosco-

py. Methods of NMR discussed in application to structural and stereochemical investigation of organic compounds. Two-dimensional FT-NMR methods are also introduced.

Chemistry of Natural Compounds: Prescribed course for master students in Organic Chemistry. Extraction and identification of natural products (terpene, alkaloids and flavonoids) from natural sources.

Stereochemistry: Elective course for master students. Basic concepts of stereochemistry. Resolution of racemic forms, preparation of stereoisomers, asymetinc synthesis, chiral seperation methods in structure elucidation will be the topics of this course.

Pheromones: Elective course for master students. Structure elucidation, synthesis, stereobiology, and biosynthesis of insect pheromones are discussed. Practical applications are also covered.

Special Topics in Organic Chemistry I: Elective course for master students. Chemical bonding and molecular structure, conformational and other steric effects are introduced. Survey of basic organic reactions will be discussed.

Special Topics in Organic Chemistry II: Elective course for doctorate students. The course will focus on synthetic transformation of special importance to modern organic synthesis. Recent reaction and reagents will be discussed within the context of multistep synthesis. Recent organic literature will be also reviewed.

Organic Analysis: Elective course for master students. Methods of organic analysis.

Redox in Organic Chemistry: Elective course for master students. Redox reactions with organic chemicals.

Pesticides: Elective course for master students. Synthesis and applications of pesticides.

Electroanalytical Chemistry I: Elective course for master students. Electrode processes, potentials and thermodynamics of cells, kinetics of electrode reactions. Mass transfer by migration and diffusion.

Electroanalytical Chemistry II: Elective course for doctorate students. Controlled potential microelectrode technique, potential step methods, potential sweep methods, controlled current microelectrode techniques, bulk electroanalysis methods.

Advanced Phase Equilibria I: Elective course for master students.

Advanced Phase Equilibria II: Elective course for doctorate students. Methods in the determination of equilibria of phases, applications.

Advanced Electrochemistry: Elective course for master students.

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Advanced Polymer Chemistry I-II: Elective course for master students. Introductory concepts and definitions functionality and polymer formation, mechanical and chemical behavior, characterization of polymers, methods of polymerization.

Properties of Gases and Liquids: Review of methods for estimating thermodynamic and transport properties of pure compounds and mixtures.

Special Topics in Physical Chemistry I: Elective course for master students.

Special Topics in Physical Chemistry II: Elective course for doctorate students.

Advanced Biochemistry I: Prescribed cours for students in Biochemistry. Lectures, independent reading and discussions of topics related to the chemistry and metabolism of plant and animal products.

Advanced Biochemistry II: Prescribed course for students in Biochemistry. The study of cellular biochemistry of plants and animals and metabolism, tissue and organ function interrelationship. Organ systems and the response of whole organism to its environment.

Advanced Melocelar Biology I: Prescribed course for students in Biochemistry. Lecture, independent reading and discussions of topics related to structural and molecular organization of prokaryotic and eukaryotic cells.

Advanced Molecular Biology II: Prescribed course for students in Biochemistry. The study of cellular biochemistry of plant and animal and metabolism, tissue and organ function interrelationship. Organ systems and the response of whole organism to its environment.

Advanced Molecular Biology I: Prescribed course for students in Biochemistry. Lecture, independent reading and discussions of topics related to structural and molecular organization of prokaryotic and eukaryotic cells.

Advanced Molecular Biology II: Prescribed course for students in Biochemistry. The study of function interrelationship of structural and molecular organization of prokaryotic and eukaryotic cells.

Special Topics in Biochemistry I: Elective course for master students. Discussion of recent research papers published in recognized scientific journals.

Special Topics in Biochemistry II: Elective course for doctorate students. Discussion of recent papers published in recognized scientific journals related to the modelling of the biologically active molecules.

Chromatographic Applications in Biochemistry: A study of the methods and technology associated with biochemical separation and identification of the biologically active molecules, using basic chromatography.

Enzyme Chemistry and Kinetics: The correlation of chemical structure and behavior of enzymes and their kinetics in vivo and in vitro. Rapid equilibrium and steady-state state of enzyme systems. Elective course for master students.

Biotechnology: Elective course for master students. Lectures, independent reading and discussion of basic and advanced modern technology introduced for analysis of genome and proteins.

Advanced Coordination Chemistry I: Prescribed course for doctorate students in Analytical and Inorganic Chemistry Coordination chemistry of transition metals, identification methods.

Advanced Coordination Chemistry II: Elective course for doctorate students.

Solid Phase Reactions: Prescribed course for doctorate students in Inorganic Chemistry. Solid phase reactions, identification, applications.

Toxic and Hazardous Industrial Chemicals: Elective course for doctorate students. Health and safety at work, general toxic and hazardous effects of chemical substances, first aid.

Solid-Liquid Extraction: Elective course for doctorate students. Principles and application of solid-liquid extraction.

Introduction to the Fundamentals of Distillation: Heat and mass transfer in distillation columns. System of azeotropic and extractive distillation columns.

Organic Analytic Chemistry: Prescribed course for doctorate student in Organic Chemistry Chemical equilibria. Determination of thermodynamic quantities. Theory of reaction rates, medium effects, selectivity in reactions. Mechanism of substitution reactions, addition reactions, analytical reactions.

Organometallic Compounds: Elective course for doctorate students. Chemistry of organometallic compounds, uses.

Retrosynthetic Analysis and Design of Organic Molecules: Elective course for doctorate students. Retro-synthetic analysis of simple organic compounds, starting material, functional group interconversions, and disconnection of target molecules into available starting materials will be discussed.

Modern Organic Reactions: Prescribed course for doctorate students in Organic Chemistry. New methods in synthesis.

Heterocyclic Chemistry: Elective course for doctorate students. The relationships between structure and chemical and physical properties of basic heterocyclic compounds will be covered. The synthesis of heterocyclic compounds are briefly discussed.

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Nitro Compounds: Elective course for doctorate students. Synthesis and uses of nitro compounds.

Dairy Products Chemistry: Elective course for doctorate students. Chemistry of dairy products.

Dyestuff Chemistry: Elective course for doctorate students. Chemistry and synthesis of food and textile dyes.

Antibiotics and Coronary Drugs: Elective course for doctorate students. Synthesis and uses.

Industrial Instrumentation Technology: Prescribed course for students in Physical Chemistry. Sensitivity and detection limits, Precision and accuracy, temperature measurements, pressure measurements, high vacuum, recorders.

Ion-Ion Interactions: Elective course for doctorate students. Debye-Hückel Theory of ion-ion, interactions, activity coefficients and ion-ion interactions, limitations of Debye-Hückel theory. Temporary ion association in an electrolyte solution.

Anionic Polymerization: Elective course for doctorate students. Monomers, solvents, initiators, initiation, propagation, living polymers, termination.

Cationic Polymerization: Elective course for doctorate students. Monomers, initiators, solvents, initiation, propagation, termination.

Ion-Solvent Interactions: Elective course for doctorate students. Non-structural treatment of ion-solvent interactions-Born Model, Structural treatment of the ion-solvent interactions, ion-dipole model, ion-quadrupole model, solvation number, dielectric constant of water and ionic solutions, ion-solvent-non-electrolyte interaction.

Thermodynamics of Polymer Solutions: Elective course for doctorate students. Polymer solutions, theories, dilute solutions, phase equilibrium.

Statistical Thermodynamics: Elective course for doctorate students.

Introduction to Continuum Thermodynamics: Elective course for doctorate students. Critical review of the classical theory. Thermomechanics principles of thermodynamics of continua.

Heterogeneous Catalysis: Prescribed course for doctorate students. Theory and practice of heterogenous catalysis.

Nucleic Acid Chemistry: Prescribed course for students in Biochemistry. Properties and behavior of nucleic acids in prokaryotic and eukaryotic cells, their function, and role in transmittance of heredity. Mutations leading to evolution, transformation and neoplasia. In vivo and in vitro sequencing of nucleic acids.

Gene Technology and Genetic Engineering: Elective course for doctorate students. Establishing of gene libraries, study of new techniques developed for mapping and sequencing of genes in a given genome and manipulation of genesin the genome (insertion and delineation of genes, recombinant DNA, cloning of genes, PCR techniques).

Biochemical Evolution: Elective course for doctorate students. Study of evolution at a molecular level. Emphasis will be given to structural and functional proteins.

Principals of Immunology and Immunological Techniques: Prescribed course for doctorate students in Biochemistry. Immunity response. Chemical basis and physical and biological consequences of antigen-antibody combination and interaction. Defects in the immune system. Immunological techniques (radioimmunoassay, immunoelectrophoresis, etc.)

Protein Chemistry: Prescribed course for doctorate students in Biochemistry. Chemical basis of protein folding. Structure modelling. Structure function relationship, protein sequencing methods.

Chemistry of Fats and Lipids: Elective course for doctorate students. Synthesis of fatty acids. Extraction and evaluation of fats and lipids of plant and animal kingdom.

Carbohydrate Chemistry: Elective course for doctorate students. Recent developments in the various fields of carbohydrate chemistry and machinery of photosynthetic pathways will be discussed.

Hormone Chemistry: Elective course for doctorate student. Newly discovered functions of hormones in relation with gene expression and gene regulation, will be discussed.

Steroid Chemistry: Prescribed course for doctorate student in Biochemistry. Biologically active synthetic steroids functioning as vitamins and hormones wil be reviewed.

Vitamin Chemistry: Elective course for doctorate students. Methods of Extraction of plant vitamins and their possible influence on mammalian metabolism.

Graduate Seminar: Prescribed course for all master and doctorate students in Chemistry. Presentations of preliminary reports on laboratory or literature research.

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MATHEMATICS

Head of Program: Prof. Dr. Afet ÖZOK

The department offers M.S. and Ph.D. degrees both in Pure and in Applied Mathematics. Main research interests in Pure Mathematics are Complex Sets, Vector Fields, Manifold Theory, Univalent Functions, Starshaped Functions and Meromorphic Functions. Applied research on the other hand is mainly based on Euler-Poisson-Darboux equation, Schrödinger equation with Screened Coulomb Potentials, Multivariable Statistical Models and Factor Analysis, Linear Modelling and Matrix Solution of Variance Analysis and applications of Statistical Package Programs.

Language of Instruction: Turkish

MASTER'S PROGRAM IN PURE MATHEMATICS

Prerequisites: The applicants must have a B.S. degree in Mathematics or its equivalent. For probable prerequisites refer to the undergraduate program of the Department of Mathematics.

First Semester	Second Semester
Abstract Spaces	Advanced Topology
Elective	Elective
Elective	Elective
Elective	Elective

Ph.D. PROGRAM IN PURE MATHEMATICS

First Semester	Second Semester
Differentiable Manifolds I	Analytic Functions
Elective	Elective
Elective	Elective
Elective	Elective

MASTER'S PROGRAM IN APPLIED MATHEMATICS

Prerequisites: The applicants must have a B.S. degree in Mathematics or its equivalent. For probable prerequisites please refer to the undergraduate program of the Department of Mathematics.

First Semester	Second Semester
Advanced Numerical Analysis I	Elective
Advanced Statistical Theory I	Elective
Elective	Elective
Elective	Elective

Ph.D. PROGRAM IN APPLIED MATHEMATICS

First Semester	Second Semester
Advanced Numerical Analysis II	Elective
Multivariable Statistical Analysis I	Elective
Elective	Elective
Elective	Elective

COURSE DESCRIPTIONS

Abstract Spaces: Metric spaces; Introduction, convergence and completeness, subspaces, Baire category. Topological spaces; Bases and countability, the separation axioms, product spaces, connectedness. Compact spaces. Banach spaces.

Analytic Functions: Holomorphic Functions. Complex integration. Representation theorems; Power series expansions, partial fractions and factorization. Analytic continuation.

Advanced Topology I: Cardinal and ordinal numbers. Generalization of the concepts of space and function. The notion of Riemann surface. Gluing method. Something about Knots. Topological spaces and continuous mappings of metric R^n, S^{n-1} and D^m Factor space and quotient topology classification of surfaces.

Advanced Topology II: Compact spaces. Paracompact, metacompact, countably compact, countaly paracompact, countaly metacompact, product spaces. Topological sums. Limits of inverse systems, connected spaces and various kinds of disconnectedness. Selected topics.

Differentiable Manifolds I: The definition of a manifold, tangent vectors and tangent spaces, the Riemannian metric, motion in a Riemannian manifold, immersion and imbedding of manifolds; submanifolds, vector field and derivations, one parameter transformation groups, the infinitesimal motion of a Riemannian manifold.

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Differentiable Manifolds II: Differential forms and tensor fields, the Lie differentiation of tensor fields and the exterior differentiation of differential forms, complex manifolds, almost complex structures, complex differential forms on a complex manifold, differential systems and integral manifolds, integration of differential forms and their applications.

General Measure Theory: Measure and Integration, Measure and Outer Measure, The Daniell Integral, Measure and Topology, Mappings of Measure Spaces.

Theory of Convex Sets: The definition of convexity and its relation to affine transformations, Intersection, closures and interiors of convex sets. The dimension of a convex set, barycentric coordinates, Hausdorff space, topological vector spaces, starshaped sets, convex hull, Hyperplanes and the Separation Theorem, Planes of Support, Intersection of convex sets, Minkowski metric, parallel sets, Blaschke Convergence Theorem, Some characterizations of convex sets and local convexity, Helly-type theorems and their applications, Convex polytopes.

Theory of Univalent Functions I: The definition and elementary properties of univalent functions. Some area theorems. Elementary bounds for the coefficients. Some theorems on power series. Some special classes.

Theory of Univalent Functions II: Convex and starlike functions. Typically-real functions and related topics. Close-to convex functions and functions of bounded boundary rotation. Radius problems and Koebe domains. Certain integrals of univalent functions. Some integral inequalities. Meromorphic univalent functions.

Entire and Meromorphic Functions: Weierstrass Theorem, Partial Fractions, Infinite Product, Canonical Products, The Gamma Function, Stirling's Formula, Entire Functions, Jensen's Formula, Hadamat's Theorem.

Integral Equations: Volterra Equations, Fredholms Equations, Symmetric Kernels and Orthogonal Systems of Functions.

Integral Transforms I: Introduction, Fourier Transforms, Laplace Transforms, Mellin Transforms.

Integral Transforms II: Hankel Transforms, The Kontorovich-Lebedev Transform, The Mehler-Fork Transform, Finite Transforms, Generalized Functions.

Harmonic Analysis: Fourier series on T, The Convergence of Fourier Series, The Conjugate Functions and Functions Analytic in the Unit Disc, Fourier Transforms on the Line, Fourier Analysis on Locally Compact Abelian Groups.

Selected Topics From Partial Differential Equations: Two and three dimensional problems of mathematical physics, The Wave equation on two and three dimensional space, the diffusion equation and its physical applications, Helmholtz equation

and methods for its solution. Integral transform method for solution of partial differential equations.

Advanced Numerical Analysis I: In this course a rather detailed study of the fundamentals of matrix computations is made with special emphasis on direct methods for solving systems of linear equations and their relationships with each other. Sensitivity of linear systems and effects of roundoff errors is also discussed. A detailed review of matrix norms is made to this end. A relatively brief analysis of indirect methods is also discussed at this stage. Orthogonal matrices (Rotators and Reflectors) are also considered as a means for solving linear systems.

Advanced Numerical Analysis II: Various methods for the least squares problem are compared. Methods for finding eigenvectors and eigenvalues are discussed in full detail.

Advanced Numerical Analysis III: Topics will be chosen in accordance with current research interest.

Advanced Numerical Analysis IV: Topics will be chosen in accordance with current research interest.

Numerical Solutions of Partial Differential Equations: Difference methods for elliptic equations: Laplace's equation. The Poisson equation, Gauss-Seidel point iteration, SOR point iteration. Difference methods for hyperbolic equations. One and two dimensional wave equation, methods of characteristics. Difference methods for parabolic equations: The explicit method, Crank-Nicolson method. Parabolic equations in two or more dimensions.

Advanced Statistical Theory I: Random variable and random variable distribution function, Moment generating function and the characteristic function. Certain special functions and distributions. t-distribution, Chi-square distribution, F-distribution.

Advanced Statistical Theory II: Limit theorems. Markov Chains. Stochastic processes, Sufficient statistical processes, Probability processes, Sequence analysis.

Multivariable Statistical Analysis I: Factor analysis models, statistical foundations of Factor study, mathematical foundations of Factor study. The concept of communality variance.

Multivariable Statistical Analysis II: Basic factor models, principle axes model, multi-factor analysis, generating methods, high level factors and their estimation.

Linear Statistical Models: The simple linear model, sampling from the multivariable normal, the linear Regression model (Full-rank case), non-full-rank case, certain non-full-rank linear models and the general linear hypothesis.

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Advanced Computer Programming I: Problem solving with PASCAL Programming language, Top-down design with Procedures and Functions, Software engineering, Arrays, Records, Binary Files, Pointers and linked lists, Dynamic Data Structures, Object-Oriented Programming.

Advanced Computer Programming II: Some Data Bases: Paradox and Clipper with their applications.

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MARMARA ÜNİVERSİTESİ YAYINEVİ

PHYSICS

Head of Program: Prof. Dr. Ömer Asım SAÇLI

One aim of the graduate program in physics is to offer courses at appropriate levels for both M.Sc. and Ph.D. students who have already acquired essential basic knowledge in Physics. The other integral part of the program is to assign students thesis work in pure or applied physics on completion of the graduate courses. Thesis work for M. Sc. degree require students to gain detailed information on the assigned subject and develop sufficient skill to follow the new development in their field or speciality. The subjects chosen for thesis work leading to Ph.D. degree are expected to be original and contribute significantly to knowledge. On completion of Ph.D. degree students are expected to be able to carry out research independently.

Language of Instruction: Turkish

MASTER'S PROGRAM IN PHYSICS

Prerequisites: The applicant must have a Bachelor's Degree in Physics or its equivalent. For probable prequisites refer to the undergraduate program of the Physics department.

First Semester	Second Semester
Classical Mechanics	Electromagnetic Theory
Mathematical Methods in Physics I	Quantum Mechanics II
Quantum Mechanics I	Elective

Ph.D. PROGRAM IN PHYSICS

First Semester	Second Semester
Statistical Mechanics	Electromagnetic Theory II
Mathematical Methods in Physics II	Advanced Quantum Mechanics
Elective	Elective
Elective	Elective

MARMARA ÜNİVERSİTESİ YAYINEVİ

COURSE DESCRIPTIONS

Classical Mechanics: Newtonian mechanics at an advanced level. Methods of Lagrange and Hamilton. Variational principles, central forces. Rigid body motion, canonical transformations. Hamilton-Jacobi theory, small oscillations.

Quantum Mechanics I: Uncertainty and complementarity, wave mechanics, Schrodinger's equation. The measurement process and the statistical interpretation of quantum mechanics, operator formalism, angular momentum algebra, matrix representation, central force problems. Time independent stationary state perturbation theory.

Quantum Mechanics II: Time dependent perturbation theory. Interaction with radiation field, Isotopic spin, Idemical particles, Scattering theory, Second quantization, Complex atoms and relativistic effects, Klein Gordon equation, Dirac equation.

Mathematical Methods in Physics I: Coordinate system, Tensor analysis, Partial differential equations. The gamma function, Bessel functions. Integral transformations.

Electromagnetic Theory I: General properties of vector fields, application to electrostatic and magnetic fields. Boundary value problems. General electromagnetic equations and conservation problems.

Introduction to Superconductivity: Discovery of superconductivity, the Meissner effect. Anomalous thermodynamic properties of superconductors. Electrodynamics of superconductors. London theory, penetration of magnetic fields into superconductors. Two kinds of superconductors. Microscopic theory of superconductors. BSC mean field theory. Conductivity and magnetic properties at low temperatures. Classical and high Tc superconductors.

Introduction to Atmospheric Physics and Air Pollution: Concise treatment of atmospheric physics and air pollution. The natural versus the polluted atmosphere. Physics of clouds and precipitation. Wet and dry removal of pollutants. Application to urban problems.

Magnetic Properties of Matter: The characteristics of magnetically ordered solids. The origin of magnetism in atoms and ions. Diamagnetism and paramagnetism. Molecular field models of ordered magnetic solids.

Semiconducting Devices I: Physical principles and operational characteristics of semiconducting devices. p-n junction diodes, junction transistors, field effect devices.

Spectral Analysis Techniques: Electromagnetic theory of radiation. Theory of emission and absorption. Instrumentation and techniques. Laser and Raman spectroscopy.

Industrial X-Ray Techniques: Elementary crystallography. Generation of X-rays. Theory of diffraction. X-ray crystallographic analysis of single crystals and polycrystalline materials.

Experimental Methods in Physics: Experiental methods used in low temperature, solid state, nuclear and atmospheric, physics. Emphasis on modern scientific instrumentation to measure temperature, conductivity, and atmospheric parameters.

Statistical Mechanics: Ensembles, fluctuations and statistical basis of laws of thermodynamics. Distribution functions with application to cooperative phenomena, partition functions and quantum statistics.

Mathematical Methods in Physics II: Complex algebra. Calculus of residues. Special functions: Legendre, Hermite, Laguerre and Bessel functions. Partial differential equations. Integral equations. Integral transforms.

Electromagnetic Theory II: Motions of charged particles in electromagnetic fields. Electromagnetic theory of radiation and electrodynamics. Reflection and dispersion of electromagnetic waves.

Advanced Quantum Mechanics: Advanced scattering theory. WKB approximation. Relativistic wave equations. Second quantization. Many particle systems. Group theory and invariance principles. Photons and electromagnetic field.

Super Conductivity I: Phenomenological theory: Microscopic electrodynamic properties, two fluid models. The London Electrodynamic equations. Pippard's non-local equation. The Ginzburg-London Theory.

Quantum Theory of Solids I: Classification of lattices and symmetry groups. Lattice dynamics and photon-photon interaction. Energy bands, pseudopotentials, band calculation methods.

Relativistic Quantum Mechanics: Foundation of relativistic quantum mechanics and Dirac equation. Free particle solutions of Dirac equation. Hydrogen atom. Propagator theory, scattering theory, Coulomb and Compton scattering. Field quantization. Non electromagnetic interactions.

General Relativity: Tensors, Riemannian geometry. Geodesics. Gravitational field equations in free space. Schwarzchild solution and consequences. Linearized field equations. Non-Empty space. Cosmological models, black holes.

Atomic Physics: The atomic view of matter, electricity and radiation. Waves and particles.Wave mechanics and hydrogen atom. Many electron atoms. Molecules. Liquids and solids.

Advanced Experimental Techniques: Designed to acquaint student with up to date techniques for measurements in the laboratory and the atmosphere. Emphasis on electronic components, data acquisition, direct and remote sensing.

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Computational Techniques in Physics: Quantitative solutions of selected problems in classical, modern and atmospheric physics. Numerical techniques in fluid dynamics.

Cloud and Aerosol Physics: Aerosol nucleation, growth and coagulation, cloud droplet and ice crystal nucleation and growth, cloud thermodynamics and chemistry, precipitation and electrification processes.

Measurement in The Atmosphere: Measurements of atmospheric parameters both on the ground and via airborne platforms. Direct and remote sensing, data acquisition. Theoretical and practical aspects of instrument design.

Atmospheric Physics and Air Pollution: Meteorology of air pollution. Aerosol and gas phase measurements. Regulatory requirements and control technology.

Quantum Theory of Solids II: Classification of lattices and symmetry groups. Lattice dynamics and photon-photon interaction. Energy bands, pseudopotentials, band calculation methods.

Group Theory: Introduction to group theory, representations and characters, reducible and irreducible representations, product representations, discrete groups, continuous groups, generators. SU(N) and atomic and nuclear physics. Lorentz's group.

Nuclear Physics: Nuclear size and nuclear shapes. The two nucleon problem. The semiempirical mass formula. The nucleus as a Fermi gas. Experimental techniques on measurement of foil thickness, deduction methods.

Elementary Particle Physics: Phenomenology and theory of elementary particles. Transition amplitudes and probabilities. Strong, weak and electromagnetic interactions. Internal quantum numbers. SU (3), Regge poles and high energy behavior.

Semiconducting Devices II: Metal-Semiconductor and MIS diodes. Thin film devices. Optoelectronic devices and semiconducting lasers. Bulk effect devices.

Superconductivity II: Type II superconductors. Tunneling. Josephson effect. microscopic theory. Second quantization. The Bloch-Frohlich theory, Cooper pairs BSC theory. The Meissner effect. The Gorkov Method, Criteria for superconductivity.

Physical Meteorology: Interaction of electromagnetic radiation with particles and molecules. Earth's radiation budget. Atmospheric pollution on a global scale, global warming, acid deposition, the ozone depletion.

Advanced Topics: Consists of lectures dealing with various aspects of one of the fields listed a) Fluid mechanics b) Atmospheric Physics c) Air pollution d) Atmospheric Aerosol Technology.

Weather Modification: Advertent and inadvertent weather modification, effects of the atmospheric pollution on local and global climate change. Modification of fogs, orographic and cumulus clouds. Aerosol production, chemical composition.

MARMARA ÜNİVERSİTESİ YAYINEVİ

TECHNICAL EDUCATION

ELECTRICAL TECHNOLOGY EDUCATION

Head of Program: Prof. Dr. İrfan GÜNEY

The Department of Electrical Education aims to educate master of science and doctorate students on theory based subjects as an extension of previous education. At the end of the training, participants prepare a thesis according to the subjects chosen. The thesis generally has to be prepared with a tendency towards application.

Language of Instruction: Turkish

MASTER'S PROGRAM IN ELECTRICAL TECHNOLOGY EDUCATION

Prerequisites: The applicants must have a Bachelor's Degree in Electrical Technology and Education or its equivalent. For probable prerequisites please refer to the undergraduate program of the Department of Electrical Technology and Education.

First Semester	Second Semester
Computer Aided Analysis of Energy Systems	Optimal Performance Analysis of Electrical Networks
Transient Performance in A.C. Machines	Computer Applications to Electrical Technology Education
Elective	Unsymmetrical Loads in Electrical Machines

Ph.D. PROGRAM IN ELECTRICAL TECHNOLOGY EDUCATION

First Semester	Second Semester
Elective	Electrical Circuit Analysis
Elective	Linear Electrical Machines
Elective	Elective
Elective	Elective

MARMARA ÜNİVERSİTESİ YAYINEVİ

COURSE DESCRIPTIONS

Computer Applications to Electrical Technology Education: A study of computer application in education. Modeling and simulation of electrical circuits. Interactive man-computer learning systems. Applications in game playing, problem solving, and human learning. Application of microcap and Electronic Workbench programs.

Computer Aided Analysis of Energy Systems: Systems transformation, node voltage and mesh-current methods, node number reduction, power flow in energy systems. Park transformation in generators, symmetrical components method, computer programs and their application related to system analysis.

Optimal Performance Analysis of Electrical Network: Characteristics of power generation units, economic dispatch of thermal units and methods of solution, transmission losses, the load-flow problem and its solution, unit commitment, generation with limited energy supply:hydrothermal coordination energy production cost models for fuel budgeting and planning.

Electric Circuit Analysis: Basic concepts, circuit topology and circuit graphs, axioms of circuits theory, 2 - terminals circuit elements, 3 - terminals circuit elements, 4 - terminals circuit elements, equivalent circuits, network theorems, methods of circuit analysis.

Linear Electrical Machines (LEM): The concept of LEM and current sheet, basic differences between LEMs and rotating machines, the goodness factor, classification motors, linear levitation machines (dc and ac attraction type), high-speed, low-speed and standstill applications of LEMs, application of energy machines, analysis of end effects, transverse edge effects, mathematical model and numerical solution of a linear induction motor (LIM), the flat LIM, the tubular LIM, model of an idealized LIM with a secondary of finite and infinite thickness.

Unsymmetrical Loads in Electrical Machines: Unsymmetrical situations, physical meaning of symmetrical components, zero-positive and negative component properties components, zero-positive and negative component properties in star and delta connection, the power in three-phase loading, zero-postive and negative sequence impedance in three-phase current, the measurement of Zp, Zn and Zo, equivalent circuits of positive, negative and zero system, unsymmetrical short-circuit of a synchronous generator and system fault calculations, unsymmetrical operation in induction motors.

Transient Performance in A.C. Machines: The transformer under low frequency voltage, the modeling of transformer-cable-line under high frequency voltage, transient performance in rotating a.c. machines, the matrix transformations, the symmetrical components transformations, the Park transformations and two-reaction theory of synchronous machines, the time-domain, time-varying and time-invariant equations of a slip-ring induction machine, the inductance matrix of a slip-ring induction machine, the application of symmetrical components and Park transformations to induction machines.

MARMARA ÜNİVERSİTESİ YAYINEVİ

ELECTRONICS AND COMPUTER TECHNOLOGY EDUCATION

Head of Program: Prof. Dr. Burhanettin CAN

Electronics, Computer, Telecommunication and Control Technology Education are among our fields of education at the Master of Science and Ph.D. Programs.

The following studies are being performed at the Master of Science and Ph.D. programs:

Micro controller based industrial electronic circuits, power electronics applications and motor driver circuits are being designed in electronics programme. Simulators of microprocessors and micro controllers are being developed in computer program. Software programs related to the special problems on data communications, satellite communication, computer communication, fiberoptics are being developed in telecommunication program. Simulations and experimental studies are being performed on numerical control, adaptive control, optimal control, fuzzy control and robotics applications and the widely used industrial systems such as position control, speed control, level control, pressure control, flow control, HVAC control and pneumatic control problems are being studied. PLC controlled systems are being studied in control program.

Studies on how electronics, computer, telecommunication and control education should be, are being carried out.

Language of Instruction: Turkish

MASTER'S PROGRAM IN ELECTRONICS AND COMPUTER TECHNOLOGY EDUCATION

Prerequisites: The applicants must have a Bachelor's Degree in Electronics and Computer Technology and Education or its equivalent. For probable prerequisites refer to the undergraduate program of the Department of Electronics and Computer Technology and Education.

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First Semester	Second Semester
Microprocessors I	Microwave Systems
Microcontrollers	Advanced Microprocessors
Elective	Elective

Ph.D. PROGRAM IN ELECTRONICS AND COMPUTER TECHNOLOGY EDUCATION

First Semester	Second Semester
Computer Controlled Systems	Digital Communication
Electronic Systems	Digital Control Systems
Elective	Elective
Elective	Elective

COURSE DESCRIPTIONS

Programmable Logic Controllers: Programmable Logic Controllers (PLC) system configuration, PLC I/0 specifications, ladder diagram programming, mnemonics programming, PC-PLC link interface, advanced computing instructions, external display and preset functions, ADC and DAC applications, monitoring operation.

Microcontrollers: Microcomputers and microcontrollers architecture, address decoding and memory organization, keyboard scanning, design of I/0 interface, programmable peripherals, parallel I/0 ports, serial communication, 8048 and 8051 family microcontrollers, assembly language programming, industrial applications.

Computer Aided Music and Midi: History of technological developments that made electronic music possible. Electronic music techniques and compositional methods with computer. Theory of musical instruments digital interface and applications. Sequencer with computer software.

Computer Controlled Systems I: The transform, pulse transfer function. Realization of Digital Controllers and Digital filters, Stability analysis of closed loop system in the Z domain. Design of Discrete-Time Control system via Transform Methods.

Computer Controlled System II: State space analysis. Analysis and Design in state space. Optimal control systems.

Microprocessors I (Hardware): CPU, reset devices, clock devices, buffering, memory organization, address select and device select methods, digital interfacing, PIO, SIO, CTC, keyboard and displays.

Microprocessors II (Software): Assembly language, instruction descriptions, assembly language programming techniques, timing, interrupts and interrupt service procedures polling, a mc monitor program.

Computer Programming III (C): Program structure, data types, program control structures, functions, structures and unions, file organization.

Data Communication: Asyhncronous communication. Physical connections, level conversion, information encoding, communication standarts, Syhncronous communication, timing synchronization. Manchester encoding, error detection. Error recovery. Modems, low and medium and high speed modems. Modem communication programs and techniques. Modem testing. Multiplexing. Local Area Networks, repeaters, bridges and gateways. X. 25 network and TURPAK.

Microwave Techniques: Transmission lines, waveguides, striplines, impedance transformers, matching, Smith chart, two-port microwave networks, S parameters, microstripline low-pass, high-pass, band-pass filters, directional couplers, dividers, quadrature, rat-race hybrids, mixers amplifiers.

Electromagnetic Theory: Electrostatic and Magnetostatic. Boundary value problems for electrostatic and magnetostatic. Magnetic properties of matter, electromagnetic induction. Maxwell's Equations. Propagation of Electromagnetic Waves. Waves in Bounded Regions. Radiation Emission, Electrodynamics, The special Theory of Relativity.

Programming Language (Cobol): In programming language course, the advantages of this language over other high-level languages; input data file update files, operations between files, sorting, indexed and reports are given. Various applications has been done particulary commercial data processing.

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MECHANICAL TECHNOLOGY EDUCATION

Head of Program: Prof. Dr. Yüksel ÇAVUŞOĞLU

The Department of Mechanical Technology Education offers graduate programs to students who want to increase their understanding of Mechanical Technology. Students who complete this program with a M.S. or Ph.D. degree enter a variety of occupations: mechanical industry, quality control laboratories and university teaching as well as research institutes. There are four major disciplines in the department:

1) Chips Removal: Research on cutting theories in chip removal machinery.

2) Mechanical Drawing and Design: Solid modelling of various machine elements and simulation of their mechanical behavior. Also research using AutoCAD, ANYSYS, various other package programs is made.

3) Automotive: Investigation of mechanical behavior of moving machine elements. Measurements of engine performance curves.

4) Energy: Energy optimization of systems. Solar energy applications. Control of air conditioning systems.

Language of Instruction: Turkish

MASTER'S PROGRAM IN MECHANICAL TECHNOLOGY EDUCATION

Prerequisites: The applicants must have a Bachelor's Degree in Mechanical Technology and Education or its equivalent. For probable prequisites refer to the undergraduate program of the Mechanical Technology and Education.

First Semester	Second Semester
Mathematical Modelling	Experimental Stress Analysis
Advanced Thermodynamics	Elective
The Finite Element Method I	Elective

Ph.D. PROGRAM IN MECHANICAL TECHNOLOGY EDUCATION

First Semester	Second Semester
Elective	Elective
Elective	Elective
Elective	Elective
Elective	Elective

COURSE DESCRIPTIONS

Mathematical Modeling: Emphasis is on problem recognition, analysis and programming. Diffusion, Fick's law. Conservation equations, continuity, momentum and energy equations. Inductance, resistance and capacity for fluid, thermal and mechanical systems, reactions processes.

Applied Numerical Methods: Initial and boundary value problems. Direct and iteration methods for solving sets of equations. Nonlinear equations. Solution of partial differential equations; elliptic-parabolic-hyperbolic partial differential equations.

Advanced Thermodynamics: Foundations of concets and principles of thermostatics. Second Law analysis of engineering systems. Constitutive equations, property relations and their applications to compressible systems, surface phenomena, elastic solid. Chemical reactions, thermodynamic stability. Thermodynamics of irreversible processes. Methods and applications of statistical thermodynamics.

Heat Conduction: Formulation of steady, unsteady, multidimensional conduction in different geometries. Methods of solution including separation of, variables, integral transformations, approximations and numerical means.

The Finite Element Method I: Introduction to the finite element method. A brief history and future of the finite element method. Elementary concepts of matrices. Some basic concepts of engineering analysis. The concept of stiffness, assembly of the overall stiffness matrix, boundary conditions, some worked out beam problems. The rigidjointed frame, the pin-jointed frame, fundamentals of linear elasticity. General element characteristic, analysis of plane problems, three-dimensional stress analysis, solution of finite element equilibrium equations. General field problems, the lubrication problem, fluid mechanics problems.

The Finite Element Method II: Introduction to the finite element method. A brief history and the future of the finite element method. Elementary concepts of matrices. Some basic concepts of engineering analysis. The concepts of stiffness, assembly of the overall stiffness matrix, boundary conditions, some worked out beam problems. The rigid-jointed frame, the pin-jointed frame fundamentals of linear elasticity. General element characteristic, analysis of plane problems, three-dimensional stress analysis, solution of finite element equilibrium equations. General field problems, the lubrication problem, fluid mechanics problems.

CAD I: System structure, selecting entities, indicating position, geometric modelling, construction parameters (const, coords) entity creation (arc autoseg, circle, conic fillet, line, point, polygon, polyline, spline) entity editing (breach, section, trim/ext) entity manipulation, X-From-move/copy/join-c-array, delta, hlx-rot, mirror, old-new, project rotate, scale) Detail drafting (Ar/wt, change, dimens, label, note, set, update, x-hatch) Display manipulation (axes, cursor, grd/snap levels, pan, redraw, view, vwports, zoom) Entity management (attrib, BX move, delete group, recall) Geometric analysis (verify, moment, perim) entity verification (verify, attrib, coord, disk, posting) file management (cad files, macros, part files, pattern files, plot files) plot print.

CAD II: Introduction to CAD/CAM, the product cycle and CAD/CAM, automation and CAD/CAM, computer technology, minicomputers, microcomputers, and programmable controllers, fundamentals of CAD, (the design process, the application of computers for design, creating the manufacturing data base benefits of computer-aided design, some examples.) Hardware in computer-aided design (the design work station, the graphics terminal operator input devices, the central processing unit, secondary storage). Computer Graphics software and data base.

Plastic Deformation: Introduction to plastic deformation. Deformation by slip, mechanism of slip. Slip in different lattice structures, deformation by twinning, slip and twinning, fracture, slip twinning and fracture, polycrystalline materials, effect of cold working on properties.

Composite Materials: Structural components of composite materials compoinations of fibe-matrix in composite. Mechanical analysis of composites moulding. Cutting, machining and joining composites. Future potential of composite materials.

Stresses in Machine Elements: Application of the principles of the strength of materials to the analysis and design of machine parts. Curved bars, multisupport shafts, torsion, cylinders under pressure, thermal stresses, creep and relaxation, rotating disksets.

Experimental Stress Analysis: General principles governing the approach to the solution of problems. Fundamental concepts of stress and strain in 2 D and 3 D. Mechanical and electrical strain gages, strain rosettes.

Operations Research: Introduction to the methodology of OR. Techniques of model building. Linear programming models. Graphical and simplex methods. Quality and sensitivity analysis. Transportation models. Assignment problems.

Production Planning: Structure of production planning in manufacturing systems. Product and process selection. Demand and sales forecasts. Aggregate planning. Materials requirements planning, sequencing and scheduling. Economic lot size. Inventory control.

MARMARA ÜNİVERSİTESİ YAYINEVİ

METAL TECHNOLOGY EDUCATION

Head of Program: Prof. Dr. Mehmet KOZ

Metals Technology Department has three main sections; welding, mechanical metallurgy and materials science. The department has both laboratories and workshops. They are listed below:

1 – Mechanical Testing Laboratory
2 – Metallography Laboratory
3 – Non-destructive Metal Testing Laboratory
4 – Hear Treatment Laboratory
5 – Welding workshop
6 – Sheet Metal Forming workshop.

Both M.Sc. and Ph.D. programs are available in the department. Eight students are accepted annually.

CURRENT RESEARCH PROJECTS (1995 - 1996)

- Environmental susceptibility of Al-Zn-Mg alloys
- Hydrogen effects on phase transformations in aluminium alloys
- Hot and cold forgability of aluminium alloys
- Friction welding of aluminium alloys
- Welding properties of ductile irons
- Welding properties of plastics
- Heat treatment of steel weldments
- Sheet Metal forming Education programmes
- Seramic coating of metals
- Wear properties of cold work tool steels

Language of Instruction: Turkish

MARMARA ÜNİVERSİTESİ YAYINEVİ

MASTER'S PROGRAM IN METAL TECHNOLOGY EDUCATION

Prerequisites: The applicants must have a Bachelor's Degree in Mechanical Technology and Education or its equivalent. For probable prerequisites refer to the undergraduate program of the Department of Metal Technology and Education.

First Semester	Second Semester
Mathematical Methods in Engineering	Applied Numerical Methods
Theories of Heat Treatment and Applications	Elective
Education Technology	Elective
Elective	

Ph.D. PROGRAM IN METAL TECHNOLOGY EDUCATION

First Semester	Second Semester
Elective	Elective
Elective	Elective
Elective	Elective
Elective	Elective

COURSE DESCRIPTIONS

Mathematical Methods in Engineering: Mathematical and experimental modelling of engineering problems. Tensor algebra. Basic equations of mechanics. Finite difference and finite element methods.

Applied Numerical Methods: Short review of solution methods of non-linear equations, sets of linear equations and sets of nonlinear equations. Numerical differentiation and integration. Differential equation applications.

Theories of Heat Treatment and Applications: Phase diagrams of steels. TTT and CT curves. Phase transformation kinetics and mechanisms of metals. Heat treatment applications of steels, high alloyed steels, copper and aluminum alloys.

X-Rays: Diffraction of X-rays. Diffractometer, powder methods, cameras. Spectrometer. Fink methods. Determination of phase diagrams from X-ray data. Study of unit cells by Cohen method.

Plastic Deformation: Plastic deformation theories of single and polycrystals. Principles of hot and cold deformation. Mechanisms of metal working, forging, extrusion and sheet metal forming. Deformability of metals.

Foundry Technology: Sand mold casting, metal casting, die casting, centrifugal casting, precision casting, core materials and core production methods. Foundry practice of cast irons, steel, copper, magnesium and aluminum alloys.

Composite Materials: Classification of composite materials, fibre and matrix materials. Reinforcing materials used in composites. Production and properties of reinforced plastics. Mechanical properties of common composites. Testing of composites.

Weldability of Metals: Heat transfer in welding region. Weld metal and Heat Affected Zone properties. Weld defects. Weldability of cast irons, stainless steels, tool steels and aluminum alloys. Weldability tests.

Testing of Materials: Hardness, tension, bending, compression, impact, Erichsen cupping, creep and fatigue tests of metals. Mechanical test for plastics. Nondestructive testing methods.

Welding Construction: Behavior of weldments under static and dynamical stresses. Residual stresses and distortion. Welding cost analysis.

Failure Analysis: Classification of failures, identification of types of failures. Classification of failure causes: faulty material selection, manufacturing errors, overload problems.

Heat Transfer: Steady and unsteady heat conduction. Basic equation of heat radiation. Free and forced convection. Condensation and surfaces boiling hat transfer. Radiant heat exchange between two parallel surfaces. Theory of gas radiation.

Solidification: The nucleation and growth, the cellular and dendritic growth, the solidification of binary alloys. The solidification of polyphase alloys. Riseing and gating analysis.

Mechanical Behavior of Materials: Yield phenomena, structure materials, deformation mechanisms of materials, strengthening mechanisms. Selection of materials for high temperature applications. Wear and friction.

Fracture Mechanics: Historical review, significance of fracture mechanics, the Griffith energy balance approach, Irwin's modification to the Griffith theory, the stress intensity approach, crack tip plasticity, plastic zone size, LEFM testing, Elastic-Plastic Fracture mechanics, J-integral, COD tests, Fatigue, sustained load fracture.

MARMARA ÜNİVERSİTESİ YAYINEVİ

PRINTING TECHNOLOGY EDUCATION

Head of Program: Assist. Prof. Mehmet OKTAV

Printing Technology Education program offers both M.S. and Ph.D. degrees in printing technology.

Technology in the printing industry continues to evolve rapidly with the incorporation of innovative materials and concepts from other disciplines.

This graduate program is specifically arranged so that students are prepared to participate in the printing industry, as well as pursue an academic career.

The main goal of the graduate program is to give a thorough education both in theoretical and in practical aspects of printing technology. The program provides the graduates with the necessary education to approach solutions to printing problems by an orientation to processes and materials based on systematic analysis.

Language of Instruction: Turkish

Prerequisities: Applicants are required to sit a written exam about printing technologies. Applicants who hold a B.S. degree from an accredited institution are preferred. Applicants who do not have printing backgrounds are required to take certain undergraduate courses under the guidance of the department head. Ph.D. degree program encourages applicants with M.S. records at the seventy five percent level or more.

MASTER'S PROGRAM IN PRINTING TECHNOLOGY EDUCATION

First Semester	Second Semester
Reproduction Physics	Basic Chemistry for Printers
Numerical Solutions	Elective
Elective	Eective

Ph.D. PROGRAM IN PRINTING TECHNOLOGY EDUCATION

First Semester	Second Semester
Chemistry of Photography	Optic Physics
Elective	Numerical Analysis
Elective	Elective
Elective	Elective

COURSE DESCRIPTIONS

Reproduction Physics: The nature of light, laws of geometric optics, reflection and refraction, thin lenses, optical instruments.

Card Board Packaging Production: Stages of design in card board package production, the relationship between cost and design features of package printing, the production of dies and materials, die cutting procedure and solutions of problems.

Improved Graphic Design: Principles of graphic design, design on computer softwares in advertising and packaging and bringing them ready for printing.

Printing Production Techniques: Technical specifications and descriptions of off-set, letter-set, screen, flexo and gravure printing techniques. Job organization and choosing the right printing method according to specifications of the job.

Quality Analyses in Printing: Examination of a final copy by using control strip and densitometer to compare it to the color separation and the orginal copies. The preparation of printing quality report by examining the size variations of screen dots on the graphic.

Preparations and Developments in Off-set Printing: Off-set printing preparation skills and job organization, cost analyses, quality criterias of films, impositions for getting quality prints. Technological developments in off-set printing.

Numerical Solutions: General concepts of matrix algebra, Eigen-value problems for matrices. Numerical solutions of definit integrals. Method of Trapezoids, method of Simpson. Series methods of Differential equations.

Art Printing Techniques: Preparing hand made gravure, litographic and screen printing plates. Examining the printing substrates and inks. Examining silicone printing.

Basic Chemistry for Printers: Solutions, chemical reactions, reaction rates, chemical equilibrium, acids and bases, formation of complexes, solubility and solubility product, oxido-reduction reactions, basic organic chemistry, fats, detergents, paints

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and varnishes, printing inks, paper and paper making, organic compounds used in photography.

Image Processing Systems: This course will introduce the student to the concepts underlying in digital representation and manipulation of images.

Ergonomic Principles: The use of ergonomic principles to increase the productivity in technical and vocational education. The course consists of the following topics:

* historical back-ground of ergonomy,
* Human factor,
  - sensition
  - control of action
* human antropometry,
  - work place design,
  - biomechanical factors
  - human machine interaction
  - physical environment (noise vibration, humadits, illumination, climate, radiation)
  - lifting-lowering
  - pulling-pushing
  - seating
  - human anthropometry
  - positioning of visume displays
  - steps in work place design
* psycho-social approaches and human factor
* human resource management.

Optic Physics: Waves and light waves, interference of light, interference in thin films, diffraction and resolution, polarization of light waves.

Quality Control in Off-set Printing: The optimum values of the factors which effect quality in off-set printing. (Film, plate, blanket, ink, fountain solutions)
* eye check,
* check with eye and densitometer,
* control strips and densitometer.

Examination of dot gain in off-set printing.

Numerical Analysis: Solving algebraic equations by using graphical methods, Newton interpolation, Lagrange interpolation formulas, Raphson interpolation formula and the least squares method.

Off-set Printing Plates Technology: The kinds and technical specifications of off-set printing plates. Resolution of off-set plates, defining the suitable exposure time.

Applied Typographic Design: Examining of typographic elements, principles of typographic design, practicing of the typographic designs on computer softwares.

Materials in Printing: The physical and chemical specifications of paper and ink. Examining the raw materials of paper and ink. Technical specifications of paper and ink pertaining to raw materials. Ink and paper tests.

Chemistry of Photography: Electromagnetic radiation, color measurement, photochemistry, silver and compounds, preparation of photographic emulsions, formation of latent image, chemistry of development, fixation and washing, color photography.

Paper and Ink Relations: Examination of the relationship between paper and ink. The factors of drying. Finding the optimum conditions for quality printing results.

Electronic Type-setting Systems: This course will introduce the student to the contemporary electronic type-setting systems, studios including DTP systems, laser writers, laser exposures and scanners.

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TECHNOLOGY EDUCATION

Head of Program: Assoc. Prof. Dr. Ülkü UZUNÇARŞILI

The Department of Technology Education offers a masters program in Technology Education. Main fields of interest are as follows:

1 - Technology of Education
2 - Curriculum Development
3 - Psycho - technique and Psychological and Vocational guidance.

Language of Instruction: Turkish

MASTER'S PROGRAM IN TECHNOLOGY EDUCATION

Prerequisites: The applicants must have a Bachelor's Degree in Technology Education or its equivalent. For probable prerequisites refer to the undergraduate program of Department of Technology Education.

First Semester

Principles of Ergonomy
Job Analysis Techniques
Research Techniques
Education of Technology

Second Semester

Psychotechniques
Micro-teaching
Industrial Psychology
Advanced Techniques of Measurement and Evaluation in Education

COURSE DESCRIPTIONS

Principles of Ergonomy: Definition of ergonomy - The fundamental of human factors - Environmental stressors and work place design (Noise - Illumination - Climate and vibration) Design for health and safety - The human factor and psycho-sociologic approach.

Psychotechniques: History and development of Psychotechnique - The individual differences to be measured by tests - Psychomotor abilities - Cognitive and behavioral - Personality tests - Intelligence tests and competency tests - Test types used in Psychotechnique.

Advanced Techniques of Measurement and Evaluation in Education: The course aims to define measurement techniques within job and performance evaluating methods (statistical).

Education of Technology: In this course it is aimed to enable the student to have the knowledge of technology education, technology in school, performance based teacher education, teaching principles and techniques, organizing the physical environment, and guidance in technology education.

Job Analysis Techniques: The course aims to define main curriculum kinds, job, task and skill analysis - Convenient teaching / learning conditions / selection and organization - evaluation of a curriculum.

Micro-Teaching: This course aims to practice the pedagogic formation of the student-teachers and focuses that teaching is essentially a practical activity. The goals of the course are to enable the student-teacher prepare implementations plan, practica lessons sessions practice/and develop competence in the basic skills of teaching. The student-teacher will acquire the necessary skills to make short lesson presentation in front of the class.

Industrial Psychology: This course aims to analyze individual as an important element of the organization. The individual - personality - group behavior, interaction - are studied. Also motivation and efficiency, conflicts (in/out) in organization and conflict solving strategies are reviewed.

Research Techniques: The aim of this course is to guide the researcher through the principles and techniques of research, data gathering and necessary methods.

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TEXTILE TECHNOLOGY EDUCATION

Head of Program: Prof. Dr. İnci TEZCAN

This program is intended for graduates interested in theoretical and research aspects of textile technology. Candidates for entry into this program must possess a B.Sc. Degree in textile science or an equivalent qualification.

Language of Instruction: Turkish

MASTER'S PROGRAM IN TEXTILE TECHNOLOGY EDUCATION

Prerequisites: The applicants must have a Bachelor's Degree in Textile or its equivalent. For probable prequisites refer to the undergraduate program of the Textile Education.

First Semester	Second Semester
Industrial Organization and Planning I	Industrial Organization and Planing II
Physical Chemistry in Textiles	Elective
Elective	Elective

Ph.D. PROGRAM IN TEXTILE TECHNOLOGY EDUCATION

First Semester	Second Semester
Modern Textile Materials	Theories in Textile Coloration
Elective	Elective
Elective	Elective
Elective	Elective

COURSE DESCRIPTIONS

Industrial Organization and Planning I-II: Organization, Marketing, Production Planning, Finance, Management of Human Sources, Office Management, Planning and Control.

Physical Chemistry in Textiles: Surface Tension, Adsorption processes, Electrolyte Solution, Cell potential, Osmotic pressure, Thermodynamics, Thermochemistry and Electrodes

Flame Retardancy of Textile Materials: Burning behavior of textile materials, Standard test methods for the evaluating of textile burning behavior, Classification of flame retardants and flame retardation mechanisms of various textile materials.

Factory Organization: All the required knowledge to organize a textile mill.

Fibre Technology: Production processes of fibers, technological developments in the fibre production processes.

Physical and Chemical Properties of Polymers: Classification of polymers, synthesis of polymers, physical and chemical properties of polymers.

Textile Microscopy: Textile microscopy studied in terms of types and textile application related to fabric, yarn and fibre analysis and also fibre classifications are made by longitudinal and cross sectional views.

Weaving Systems: General knowledge on the new textile weaving systems.

Textile Mechanics: Understanding and application of textile mechanics.

Computer Application in Garment Construction: Use of CAD/CAM systems in garment making.

Modern Textile Materials: Super fibre with new performance, high touch fibers, progression of high-tech fibers.

Theories in Textile Coloration: Physical chemistry essential to dyeing theory, thermodynamics of dye sorption, diffusion and rates of dyeing, the response of fibers to dyeing processes.

Color Measurement in Textile Industry: Nature of light, CIE standard light sources, Instruments for measuring color, Colorimetry and the CIE system, Qualification of Color Differences, Color match prediction, The mechanism of vision.

Knitting Systems and Geometry: General knowledge on the new textile knitting systems.

Total Quality Management and Quality Assurance in Textile Industry: Quality planning and management in the textile industry, ISO 9000 Quality management and quality assurance standards, Statistical process control.

Sonochemistry: Sonochemistry and its industrial application, Bubble formation and cavitation, Ultrasonic energy sources for industrial application, Use of ultrasonic energy in organic syntheses, Free radical reactions, Ultrasonic energy in polymer chemistry, Applications of ultrasound to various chemical processes, Ultrasonic laboratory equipment and reactor design.

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11. INSTITUTE OF TURKISH and TURKIC STUDIES

Director : Prof. Dr. İnci ENGİNÜN
Assistant Director : Prof. Dr. Nadir DEVLET

Language of Instruction: Turkish

The Institute of Turkish and Turkic Studies was founded on January 24, 1991 as an academic institution concerned with the Turks living all over the world. The main objective of the Institute is to offer various graduate programs leading to the Master's and Ph.D. degrees, to train specialists in the field. These programs aim at preparing the candidates for the M.A. and Ph.D. degrees in a Turkish language teaching medium. Candidates are required to take courses for a duration of two semesters in each program and prepare an M.A. thesis in their second year, a Ph.D. dissertation in their second and third years. The Institute offers graduate studies in Atatürk Principles and the History of the Turkish Renovation (M.A., Ph.D.), Modern Turkish Literature (M.A., Ph.D.), General Turkish History (M.A.), History of the Turkish Republic (M.A., Ph.D.), Late Ottoman History (M.A., Ph.D.), Medieval History

(M.A., Ph.D.), Ottoman History (M.A., Ph.D.), Ottoman Literature (M.A., Ph.D.), Turkish Art (M.A.), Turkish History (Ph.D.) and Turkish Philology (M.A., Ph.D.).

The Institute also initiates researches on the cultural, social, economic and political developments of the Turkic peoples and states; collects relevant published material with a view toward the development of the specialized library. The Institute carries out cooperation and exchange with similar institutions in Turkey and abroad. The Institute also convenes seminars, conferences and symposia on its own subject or other relevant areas.

ATATÜRK PRINCIPLES AND THE HISTORY OF THE TURKISH RENOVATION

Head of Program: Prof. Dr. Cevdet KÜÇÜK

MASTER'S PROGRAM

First Semester	Second Semester
Intellectual Movements in Turkish Political History I	Intellectual Movements in Turkish Political History II
Turkish Foreign Policy I	Turkish Foreign Policy II
Sources and Problems of the History of the Turkish Renovation I	Sources and Problems of the History of the Turkish Renovation II
Method in Historical Research I	Method in Historical Research II
Ottoman Diplomatics I	Ottoman Diplomatics II
History of Education in the Turkish Republic I	History of Education in the Turkish Republic II

Ph.D. PROGRAM

First Semester	Second Semester
Cultural Movements in XIX. and XX. cc. I	Cultural Movements in XIX. and XX. cc. II
Reform Movements in Turkey I	Reform Movements in Turkey II
Turkish Sources of the History of Ottoman Empire I	Turkish Sources of the History of Ottoman Empire II
Non-Muslims under the Ottoman Administration I	Non-Muslims under the Ottoman Administration II

COURSE DESCRIPTIONS

Sources and Problems of the History of the Turkish Renovation I-II: Learning how to use and criticize archive documents and primary sources on the Turkish history of renovation and Atatürk principles.

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Non-Muslims under the Ottoman Administration I-II: Analysis of the status of non-muslims in the Ottoman Empire.

History of Education in the Turkish Republic I-II: The development of Turkish Educational System and its influence on Turkish revolution.

Reform Movements in Turkey I-II: A detailed study on the historical background of Turkish reforms and constitutional movement and its reflections on the administrative, fiscal and military spheres.

Ottoman Diplomatics I-II: The development of Ottoman diplomatics and its characteristics according to the written materials as primary sources.

Turkish Foreign Policy I-II: The principles of Turkish foreign policy and its problems up to 1923.

Turkish Sources of the History of Ottoman Empire I-II: A course which aims at increasing the abilities of the students to use the Ottoman sources by learning the chronicles and historiography in the Ottoman Empire.

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HISTORY

Head of Program: Prof. Dr. Mustafa Çetin VARLIK

MASTER'S PROGRAM IN GENERAL TURKISH HISTORY

First Semester	Second Semester
History of Independent and Dependent Turkish States and Societies in 19th and 20th cc. I	History of Independent and Dependent Turkish States and Societies in 19th and 20th cc. II
Research Methods I	Research Methods II
History of Turkish Thought in 20th cc. I	History of Turkish Thought in 20th cc. II
Ancient Turkish History I	Ancient Turkish History II
Russian I	Russian II

PH.D. PROGRAM IN GENERAL TURKISH HISTORY

First Semester	Second Semester
The Sources of the History of the Turkic World I	The Sources of the History of the Turkic World II
The Sources of Ancient Turkish History I	The Sources of Ancient Turkish History II
The Problems of the Central Asian Turkish History I	The Problems of the Central Asian Turkish History II
Introduction to Tatar and Tatar Sources I	Introduction to Tatar and Tatar Sources II
Turkish Russian Relations I	Turkish Russian Relations II

COURSE DESCRIPTIONS

History of Independent and Dependent Turkish States and Societies in 19th and 20th cc. I-II: Mainly the cultural, political and social history of the Turkic population of former Soviet Union are discussed. The problems of newly emerging Turkic states and Turkic peoples, their national, demographical, educational and environmental problems are stressed.

Research Methods I-II: The historical sources and scientific materials in Turkish, local languages and foreign languages e.g. English, German French, Russian etc are taught. The problems connected with research materials are discussed.

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History of Turkish Thought in 20th cc. I-II: Important Turkish thinkers, writers, poets etc. and their works which affected the Turkish World are studied.

Ancient Turkish History I-II: The statehood of ancient Turkish tribes and their historical role in Central Asia are discussed.

Russian I-II: The main goal is to teach how to use Russian historical works.

The Sources of the History of the Turkic World I-II: Works and research materials in different languages are taught.

The Sources of Ancient Turkish History I-II: Chinese, Persian, Arabic, Russian etc. materials on ancient Turkish history are taught.

The Problems of the Central Asian Turkish History I-II: The problems of rewriting national histories of the Central Asian republics are discussed.

Introduction to Tatar and Tatar Sources I-II: Introduction to Tatar and examination of texts in Tatar.

Turkish-Russian Relations I-II: The development of Turkish and Russian relations in historical perspective.

MASTER'S PROGRAM IN THE HISTORY OF THE TURKISH REPUBLIC

First Semester

Intellectual Movements in Turkish Political History I
Turkish Foreign Policy I
Sources and Problems of the History of the Turkish Renovation I
Method in Historical Researches I
Ottoman Diplomatics I
History of Education in the Turkish Republic

Second Semester

Intellectual Movements in Turkish Political History II
Turkish Foreign Policy II
Sources and Problems of the History of the Turkish Renovation II
Method in Historical Researches II
Ottoman Diplomatics II
Contemporary History of Ottoman Geographics

PH.D. PROGRAM IN THE HISTORY OF THE TURKISH REPUBLIC

First Semester

Cultural Movements in XIXth and XXth cc. I
Reform Movements in Turkey I
Turkish Sources of the History of Ottoman Empire I
Non-Muslims under the Ottoman Administration I

Second Semester

Cultural Movements in XIXth and XXth cc. II
Reform Movements in Turkey II
Turkish Sources of the History of Ottoman Empire I
Non-muslims under the Ottoman Administration II

COURSE DESCRIPTIONS

Sources and Problems of the History of the Turkish Renovation I-II: Learning how to use and criticize archive documents and primary sources on the Turkish history of renovation and Atatürk principles.

History of Education in the Turkish Republic: The development of Turkish Educational System and its influence on Turkish revolution.

Ottoman Diplomatics I-II: The development of Ottoman diplomatics and characteristics according to the written materials as primary sources.

Turkish Foreign Policy I-II: The principles of Turkish foreign policy and its problems up to 1923.

Reform Movements in Turkey I-II: A detailed study on the historical background of Turkish reforms and constitutional movement and its reflections on the administrative, fiscal and military spheres.

Non-Muslims under the Ottoman Administration I-II: Analysis of the status of non-muslims in the Ottoman Empire.

Turkish Sources of the History of Ottoman Empire I-II: A course which aims at increasing the abilities of the students to use the Ottoman sources by learning the chronicles and historiography in the Ottoman Empire.

Contemporary History of Ottoman Geographics: A focus upon the disintegration of the Ottoman Empire and the Peace Settlements. The emergence of new states in the Ottoman geography and their social and economic relations.

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MASTER'S PROGRAM IN LATE OTTOMAN HISTORY

First Semester	Second Semester
Turkish Sources of the History of Ottoman Empire I	Turkish Sources of the History of Ottoman Empire II
Problems of Late Ottoman History I	Problems of Late Ottoman History II
History of Ayans I	History of Ayans II
Method in Historical Research I	Method in Historical Research II

Ph.D. PROGRAM IN LATE OTTOMAN HISTORY

First Semester	Second Semester
Celali Revolts I	Celali Revolts II
Reform Movements in Turkey I	Reform Movements in Turkey II
Peripheral Institutions in Ottoman Empire I	Peripheral Institutions in Ottoman Empire II
Non-Muslims under the Ottoman Administration I	Non-Muslims under the Ottoman Administration II

COURSE DESCRIPTIONS

Turkish Sources of the History of Ottoman Empire I-II: A course which aims at increasing the abilities of the students to use the Ottoman sources by learning the chronicles and historiography in the Ottoman Empire.

Problems of Late Ottoman History I-II: Analysis of some political questions in 19th century. Such as; the Armenian Question, Egypt in the Anglo-Turkish relations and the European pressure on the Ottoman state after the treaty of Berlin.

History of Ayans (Notables) I-II: The role of Ayans in Anatolia and Balkans and their struggle with the central and local governments.

Non-Muslims under the Ottoman Administration I-II: Analysis of the status of non-muslims in the Ottoman Empire.

Reform Movements in Turkey I-II: A detailed study on the historical background of Turkish reforms and constitutional movement and its reflections on the administrative, fiscal and military spheres.

Celali Revolts I-II: Analysis of some rebellions in the XVIth and XVIIth centuries in Anatolia with special emphasis on Celalis. The growth of population and its pressure on Anatolia.

Peripheral Institutions in Ottoman Empire I-II: Administrative structure of the periphery and its relations with the center.

MASTER'S PROGRAM IN MEDIEVAL HISTORY

First Semester	Second Semester
Seljukid Institutions	Historiography Between Xth-XVth cc.
Research Techniques	Muslim Geographers
Sources of Islamic History Between Xth-XIIIth cc.	Medieval Turkish History

Ph.D. PROGRAM IN MEDIEVAL HISTORY

First Semester	Second Semester
Philosophy of History and Methodology	Analysis of Seljukid Sources
Turkish Tribes in XIth century	Epigraphy and Numismatics
Scientific Life in the Middle Ages	Travel Books and Their Analysis
	Economic Life in Medieval Turkey

COURSE DESCRIPTIONS

Seljukid Institutions: Foundation and development of palace, center and peripheral organizations of the Seljukids and Atabegs.

Research Techniques: The classification and critics of Islamic history sources of Xth-XIIIth centuries.

Sources of Islamic History Between Xth-XIIIth centuries: Analysis of modern history methods.

Historiography Between Xth-XVth centuries: Evolution of historiography in the Islamic world in the Xth-XVth centuries.

Muslim Geographers: Introduction to the Muslim geographers and their works, which give information on Turks in the Xth century.

Medieval Turkish History: Political history of the Seljukids and Atabegs.

Philosophy of History and Methodology: Emergence and development of philosophy of history and various historical theories.

Turkish Tribes in XIth century: Turkish tribes and their organizations according to the XI century Muslim geographers.

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Scientific Life in the Middle Ages: Scholarly life in the Turco-Islamic world and the contributions of the Turks in the middle ages.

Analysis of Seljukid Sources, Epigraphy and Numismatics: Evolution of Seljukid coins, inscriptions and sources.

Travel Books and Their Analysis: Books of travel giving information on Turkic and Mongolian tribes and their analysis.

Economic Life in Medieval Turkey: Development of commercial and economic life in Turkey in Middle Ages.

MASTER'S PROGRAM IN OTTOMAN HISTORY

First Semester	Second Semester
Ottoman Institutions and Their Documents I	Ottoman Institutions and Their Documents II
Settlement Policy of the Ottoman Empire I	Settlement Policy of the Ottoman Empire II
Method in Text Publication I	Method in Text Publication II
Method in Historical Researches I	Method in Historical Researches II

Ph.D. PROGRAM IN OTTOMAN HISTORY

First Semester	Second Semester
Ottoman Law System I	Ottoman Law System II
Celali Revolts I	Celali Revolts II
Settlement of Nomads in the Ottoman Empire I	Settlement of Nomads in the Ottoman Empire II

COURSE DESCRIPTIONS

Ottoman Institutions and Their Documents I-II: A detailed analysis of the Ottoman institutions such as *timar* and *eyalet* by studying the original documents like *tapu tahrir* and *kanunnames*.

Settlement Policy of the Ottoman Empire I-II: The role of social and religious institutions in urbanization. The settlement of nomads and their social structure during early and classical periods.

Ottoman Law System I-II: Analysis of Islamic law (*şeri*) and traditional law (*örf*) in the Ottoman state.

Settlement of Nomads in the Ottoman Empire I-II: The social structure of nomads and their traditional way of life. The policy of Ottoman Empire on nomads.

Method in Text Publication I-II: Study of the documents about the Ottoman history which have several copies in the libraries in Turkey and abroad. The comparative analysis of these copies, finding out the author's copy and the method to publish a reliable text.

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TURKISH ART

Head of Program: Prof. Dr. Selçuk MÜLAYİM

MASTER'S PROGRAM IN TURKISH ART

First Semester

Research Methods
Seminar in Ottoman Art I
Iconography I
Beginnings and Development of Research in Turkish Art I
Style Analysis I
Seminar in Medieval Architecture I

Second Semester

Esthetics
Seminar in Ottoman Art II
Iconography II
Beginnings and Development of Research in Turkish Art II
Style Analysis II
Seminar in Medieval Architecture II
Seminar for Thesis

COURSE DESCRIPTIONS

Beginnings and Development of Research in Turkish Art I: The researchers, their views and important publications from the birth of the concept of "art history" until 19th century.

Beginnings and Development of Research in Turkish Art II: The researchers, their opinions, important publications from 19 th. century until present.

Seminar in Ottoman Art I-II: The formation of Classical and Late Ottoman architecture, architectural types, styles and masters.

Research Methods: Choosing a subject and a field of study; planning and classification; types of sources; interpretation and evaluation.

Seminar in Medieval Architecture I: The origins, its elements, regional schools.

Seminar in Medieval Architecture II: Development of architectural types, masters and styles.

Iconography I: Primitive mythology; Egypt and the Near East; Aegean-Mediterranean culture; Byzantine and European art.

Iconography II: Pre-Islamic Turkish art; the iconography of the Seljukids, the Emirates and the Ottomans; figures, motives and compositions

Style Analysis I: Critics and its methods; style in architecture; miniature styles; the masters in tile art

Style Analysis II: Relations between painting and miniature. Primitives. Contemporary Turkish painting

Seminar for Thesis: Recording the knowledge, research models, monographs, typology, dating, interpretation and evaluation

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TURKISH LANGUAGE AND LITERATURE

Head of Program: Prof. Dr. İnci ENGİNÜN

MASTER'S PROGRAM IN MODERN TURKISH LITERATURE

First Semester

Concepts
Sociology of Literature I
Novel Methodology I
History in 19th-20th cc. Literature I
Advanced Ottoman
Stylistics I

Second Semester

Sources of Modern Turkish Literature (Folk L.)
Sociology of Literature II
Novel Methodology II
History in 19th-20 th cc. Literature II
Stylistics II

Ph.D. PROGRAM IN MODERN TURKISH LITERATURE

First Semester

Comparative Literature
Sources of Modern Turkish Literature (Divan L.)
Young Ottomans I
History of Literature with Texts I
Relationship Between Biography and Work I
Turkish Short Stories I

Second Semester

Young Ottomans II
History of Literature with Texts II
Relationship Between Biography and Work II
Turkish Short Stories II
Cultural History in 19th-20th cc.

COURSE DESCRIPTIONS

Concepts: Explanation of literary terms with examples, their historical development.

Sociology of Literature I-II: The relationship between literature and society.

Novel Methodology I-II: Novel and methods of expression. The examination of the art of novel.

History in 19th-20th cc. Literature I-II: Explanation of how historical events are treated in literature with examples.

Advanced Ottoman: Studies on examples like **Mihnet-i Kegan, Muhayyelat.**

Stylistics I-II: What is stylistics, examples, its evolution; researches of stylistics in Turkish literature.

Comparative Literature: Explanation of the term "comparative literature", examples of this branch of literature; discussion of some impacts on Turkish literature with examples.

Sources of Modern Turkish Literature: Examination of the sources which reinforce modern Turkish literature. Examples from the folk literature and divan literature.

Young Ottomans I-II: Literary developments after the Tanzimat period.

History of Literature with Texts I-II: Discussion of the literary development as observed in the literary texts.

Relationship between Biography and Work I-II: Determining the relationship between the literary work and its author's life.

Turkish Short Stories I-II: Selected examples from among the early Turkish short stories, their analysis and the development of this genre.

Cultural History in 19th-20th cc.: Literary types treated in Turkish literature and their development. Cultural movements which affected literary works.

MASTER'S PROGRAM IN OTTOMAN LITERATURE

First Semester

Basic Information and Methods in Research I
Examples from Persian Literature I
Turkish Mesnevi Literature I
Text Explanation and Restoration I
Paleography I
The Forms and Varieties of Verse I
The Methods of Text Analyzing I

Second Semester

Basic Information and Methods in Research II
Examples from Persian Literature II
Turkish Mesnevi Literature II
Text Explanation and Restoration II
Paleography II
The Forms and Varieties of Verse II
The Methods of Text Analyzing II

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Ph.D. PROGRAM IN OTTOMAN LITERATURE

First Semester

Comparative Study of Classical Turkish Literature and Persian Literature I
Text Explanation and Restoration I
Verse in Classical Literature I
Prose in Classical Literature I
Texts in Chaghatai Language I
Eastern Turkish Texts I
Semantics I

Second Semester

Comparative Study of Classical Turkish Literature and Persian Literature II
Text Explanation and Restoration I
Verse in Classical Literature II
Prose in Classical Literature II
Texts in Chaghatai Language II
Eastern Turkish Texts I
Semantics II

COURSE DESCRIPTIONS

Basic Information and Methods in Research I-II: Methods and principles of critical edition and text printing will be learned in this lesson.

Examples from Persian Literature I-II: Some modern and classical Persian proses and poems will be read and explained.

Turkish Mesnevi Literature I-II: Place of origin of Mesnevi. Historical development of Mesnevi. Features of Turkish Mesnevis. Classification of Mesnevis. Analysis of one Mesnevi.

Text Explanation and Restoration I-II: Principles about text explanation and restoration. Texts that belong to some centuries and poets in Ottoman Literature will be explained and restored by some personal and literary principles.

Paleography I-II: Some principles of paleography and Islamic caleography will be taught.

The Forms and Varieties of Verse I-II: In this course, the forms and varieties of verse of our classical literature are compared with examples.

The Methods of Text Analyzing I-II: The methods that are followed to understand the texts of our classical literature are studied with examples. The methods are applied to texts as transcribing, changing from verse into prose and systematical ways of explanation.

Comparative Study of Classical Turkish Literature and Persian Literature I-II: Some samples of classical Persian and Turkish literature will be compared with each other.

Verse in Classical Literature I-II: Various subjects in classical literat texts are analyzed from formal and contextual point of view.

Prose in Classical Literature I-II: Turkish Divan prologues are analyzed in this course. The ways of writing the classical prosal texts are studied with examples, and the views of poets about the poets and poetry are taught.

MASTER'S PROGRAM IN TURKISH PHILOLOGY

First Semester	Second Semester
Research Methods	Phonetics of Loan Words in Turkish
Texts in Old Anatolian Turkish	Ottoman Texts
Paleography	Turkish Elements in Persian
Uzbek Language	Religious Texts in Old Turkish
Kirghiz Language	Russian II
Russian I	Texts in Chaghatai II
Texts in Chaghatai I	Computer Application in Language Studies II
Bibliography for old Turkish	Texts in Middle Turkish
Computer Application in Language Studies I	The Phonetics of Tuvinian
Linguistics I	Linguistics II

Ph.D. PROGRAM IN TURKISH PHILOLOGY

First Semester	Second Semester
Problems of Turcology	Comparative Study of the Loan Words in Turkish Dialects
Anatolian Texts of the XVI th century	Methods for Dating Manuscripts
Relations Between Language and Paleography	Buddhist Texts
Uzbek Grammar	Texts in Khwarezmian
Kirghiz Grammar	Russian II
Problems of Old Turkish	Texts in Chaghatai II
Russian I	The Phonetics of South Siberian Dialects
Texts in Chaghatai I	

COURSE DESCRIPTIONS

Research Methods: The fundamental issues of Turcology and acquintenance with primary and secondary sources.

Texts in Old Anatolian Turkish: Texts and philologic analysis.

Uzbek Language: Texts and grammar.

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Kirgiz Language: Texts and grammar.

Russian I: Introduction to Russian.

Texts in Chaghatai: Texts and philologic analysis.

Bibliography for Old Turkish: Texts and philologic analysis.

Phonetics of Loan Words in Turkish: A survey of loan words in Turkic dialects.

Religious Texts in Old Turkish: Buddhist or Manichean texts.

Texts in Middle Turkish: Khwarezmian texts.

Anatolian Texts of the XVIth century: Texts and philologic analysis.

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ACADEMIC CALENDAR FOR GRADUATE COURSE PROGRAMS

Institute of Graduate Study	Master's and Ph.D. Qualifiers	Registration	Fall Term	Spring Term
1. European Community Institute			1.10.97 - 9.1.98	2.3.98 - 5.6.98
2. Institute for Graduate Studies in Science and Technology	10.9.97	22.26.9	1.10.97 - 9.1.98	23.2.98 - 4.6.98
3. Institute of Banking and Insurance			1.19.97 - 2.1.98	2.3.98 - 5.6.98
4. Institute of Educational Sciences			1.10.97 -	
5. Institute of Fine Paintings			1.10.97 -	
6. Institute of Health Sciences	9.10.9.97	22.30.9	1.10.97 - 1.1.98	2.3.98 - 29.5.98
7. Institute of Middle Eastern and Islamic Countries			1.10.97 -	
8. Institute of Social Sciences 9.3.98 - 18.6.98	9-12.9.97	25.9-3.10		1.10.97 - 9.1.98
9. Institute of Turkish and Turkic Studies			1.10.97 - 9.1.98	16.2.98 - 28.5.98

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ATATÜRK FACULTY OF EDUCATION

Name	Year of Ph.D.	Institution	Field
Professors:			
ÖZCAN, Ali Osman	1979	İ.U. F of Lit.	Pedagogy
AKSOY, Nazan	1982	İ.U. Ins. Soc. Sc.	English Language
ALPTEKİN, Coşkun	1972	London Univ.	History
ATACIK, Şermin	1977	ABD Temple Univ.	Mathematics
AVCI, İsmail	1984	M.U. Ins. Soc. Sc.	Graphics
AYDIN, Ramiz	1985	M.U. Ins. Soc. Sc.	Painting
AYTAŞ, Selami Işık	1971	Surrey Univ.	Solid State Physics
AĞLAR, Adil	1982	İ.U. F of Lit.	Literature
ÇIRPICI, Ali	1981	İ.U. F of Sc.	Biology
ÇORLU, M. Ali	1985	Yıldız Univ. Ins. Sc.	Physics
ELMAS, Yıldız	1986	M.U. Ins. Sc.	Music
ELMAS, Yücel	1987	M.U. Ins. Sc.	Music
EMİL, Birol	1987	İ.U. F of Lit.	Literature
ERGEZEN, Sema Sevinç	1975	Washington Univ.	Zoology
ERİMEZ, Dinçer	1986	M.U. Ins. Soc. Sc.	Graphics
ERKMAN, Fatma	1977	İ.U. F of Lit.	German Language
ESME, İsa	1983	Yıldız Univ. Ins. Sc.	Physics
GÜMÜŞ, Hüseyin	1973	Ankara ve Atatürk Univ. F of Lit & G.	French Language
GÜNAY, Edip	1978	H.U.	Music
GÜRÜNLÜ, Mustafa			
HALAÇOĞLU, Yusuf	1978	İ.U. F of Lit.	History
HAMZAOĞLU, Esat	1975	Manchester Univ.	Philosophy
HESAPÇIOĞLU, Muhsin	1976	Münster Univ.	Educational Sciences
ILGAZ, Asuman	1973	Graz Univ.	Mathematics
ILGAZ, Turan	1969	İTÜ Arch.	-
KENDİRLİ, Barış	1976	ABD Yale Univ.	Mathematics
KULAKSIZOĞLU, Adnan	1985	İ.U. Ins. Soc. Sc.	Educational Sciences
KUŞOĞLU, Zeki	1984	M.U. Ins. Soc. Sc.	Graphics
KUTLUĞ, Nüzhet	1984	M.U. Ins. Soc. Sc.	Painting
MERT, Özcan	1979	H.U. F of Ed.	Modern age History
OKTAY, Ayla		İ.U. F of Lit.	Education
ÖZET, Mehmet	1985	M.U. Ins. Soc. Sc.	Painting
ÖZGÜLTEKİN, Binyamin	1986	M.U. Ins. Soc. Sc.	Graphics
ÖZHATAY, Engin	1975	İ.U. F of Sc.	Botanics and Genetics
ŞAHİN, Musa	1975	İ.U. F of Chem.	Botanics

* See key to the abbreviations on page 464

MARMARA ÜNİVERSİTESİ YAYINEVİ

SALMAN, Huseyin	1973	I.U. F of Lit.	History
SAVCI, Nursel	1975	Ege Univ. F of Sc.	Industrial Chemistry
SELÇUKBİRİCİK, Ali	1977	I.U.	Physical Geography
ŞENEL, Nihat	1986	M.U. Ins. Sc.	Music
TOPALOĞLU, Ahmet	1974	I.U. F of Lit.	Turksh Language
ÜNAL, Meral	1977	I.U. F of Sc.	Biology
UYSAL, Nermin	1975	Wales Univ.	Inorganic Chemistry
ÜZGÖR, Tahir	1986	M.U. Ins. Soc. Sc.	Turkish Language
YAŞLAK, Salip	1978	Ruhr Univ.	Organic Chemistry
YORULMAZ, Yavuz	1973	Oklahma Univ.	Chemistry
YÜKSEL, Semahat	1968	Marburg Philipps	Modern German Literature

Associate Professors:

AKKAYA, Tayfun	1985	I.U. Ins. Soc. Sc.	Art History
PAINTINGUK, Simone Luisee	1981	Koln Univ.	Philosophy
AYDIN, Betül	1981	İ.U. Cer. Med. Sch.	Medical Sciences
AYRANCI, Halim	1975	Freiburg Univ.	Chemistry
BAŞLIOĞLU, İsa	1985	M.U. Ins. Soc. Sc.	Painting
BEZER, Gülay (ÖĞÜN)	1988	Atatürk Univ. Ins. Soc. Sc.	Middle-age History
BULUT, Erol	1986	M.U. Ins. Soc. Sc.	Painting
BUYURN, Servet	1968	Manchester Univ.	Metallurgy
CANDA, Ali	1988	Atatürk Univ. Ins. Soc. Sc.	Middle - age History
ENGİN, Vahdettin	1992	M.U. Ins. Turk. St.	Modern age History
ENSARİ, Hoşcan	1989	I.U.	Educational Sciences
ERDEM, Basri	1985	M.U. Ins. Soc. Sc.	Graphics
ERSOY, Ayla	1985	M.U. Ins. Soc. Sc.	Art History
ERTURAN, Nurder	1978	H.U. Home Ec.	Child Development
GÖBELEZ, Cemalettin	1987	M.U. Ins. Soc. Sc.	Music
GÜRDAL, Ayla	1987	M.U. Ins. Sc.	Physics
İPEKBAYRAK, Berika	1986	M.U. Ins. Soc. Sc.	Sculpture
KOCAYUSUFPAŞAOĞLU, Munime MALKOÇ, Günseli	1986	Minnesota Univ.	Chemistry
	1989	M.U. Ins. Soc. Sc.	Public Education
MUNGAN, Güler	1985	Bochum Ruhr Univ.	German Language
OKUTAN, İknur	1991	M.U. Ins. Sc.	Music
ONAT, Tülin	1985	M.U. Ins. Soc. Sc.	Painting
ÖNER, Muammer	1984	M.U. Ins. Soc. Sc.	Painting
ÖZDEMİR, Hikmet	1980	F of Div.	
ÖZDEN, Erol	1987	M.U. Ins. Soc. Sc.	Painting
ÖZEY, Nurettin	1986	Atatürk Univ. Ins. Soc. Sc.	Geography
ÖZOL, Ahmet	1985	M.U. Ins. Soc. Sc.	Painting
POLAT, SevilÜnal	1987	Melbourne Univ.	Chemistry
SAPAZ, Veli	1985	M.U. Ins. Soc. Sc.	Painting
TANYELİ, Nevhiz	1985	M.U. Ins. Soc. Sc.	Painting
TARKUN, Ezel	1989	A.U. Ins. Soc. Sc.	Educational Sci.
TONGER, İlhan	1987	M.U. Ins. Sc.	Music

MARMARA ÜNİVERSİTESİ YAYINEVİ

Assistant Professors:

ADA, Sefer	1980	M.U. Ins. Soc. Sc.	Educ. Sci.
AKDOĞAN, Feruzan	1982	Bochum Ruhr Univ.	German Language
ARSLAN, Hüsnü	1979	Lille Univ.	French Language
AVNİ, Hüseyin	1989	Mimar Sinan Univ.	Painting
BAKIOĞLU, Ayşen	1991	I.U. Ins. Soc. Sc.	Educational Sciences
BAŞARSLAN, Zekeriya	1992	I.U. Ins. Soc. Sc.	Folk Music
BAYRAM, Hale	1992	A.U. Ins. Sc.	
BİRBİR, Meral	1991	M.U. Ins. Sc.	Biology
BOSTAN, Hanefi	1993	M.U. Ins. Soc. Sc.	Modern-age History
DEMİREL, Mustafa	1980	I.U. F of Lit.	Turkish Language
DERKUNT, Ümran	1990	Sorbonne Univ.	French
DİCLE, Hilal	1984	Gazi Univ. Ins. Sc.	Piano
DOĞAN, Pesent	1989	M.U. Ins. Soc. Sc.	Painting
DURSUN, A. Haluk	1994	M.U. Ins. Turk St.	Modern - age History
ERACAR, Nevin	1984	I.U. Med. Sch	Psychiatry
GEZER, Mehmet	1991	I.U. Ins. Soc. Sc.	Radio-TV
GÜNAL, Nurten	1986	I.U. Ins. Mar. & G.	Geography
GÜNE, Yunus	1988	M.U. Ins. Soc. Sc.	Graphics
GÜREL, Zeynep	1991	I.U. Ins. Sc.	Atomic and Molecular Physics
HAMZAOĞLU, Melek	1975	Manchester Univ.	Chemistry
İLGİN, Leyla	1993	M.U. Ins. Soc. Sc.	English Language
KAÇALİN, Mustafa	1990	I.U. Ins. Soc. Sc.	Old Turkish Language
LEVENT, Ethem	1978	A.Ü. F of Div.	Commentary of the Qor'an
OKUTMAN, Hale	1983	I.U. F of Sc.	Science
ÖZDEMİR, Ahmet Şükrü	1993	İTU Ins. Sc.	Administration and Org.
ÖZEL, Ayşe	1985	M.U. Ins. Soc. Sc.	Painting
ÖZKAYA, Ali Rıza	1990	M.U. Ins. Sc.	Chemistry
ÖZTÜRK, Cemil	1991	M.U. Ins. Soc. Sc.	Atatürk Principles and Renovation
PAK, Ali Seçim	1987	M.U. Ins. Sc.	Music
ŞAHİN, Fatma	1990	M.U. Ins. Sc.	Biology
SEÇKİN, Murat	1991	Soukhemilmois Univ.	English Literature
SEVİNÇ, Müzeyyen	1993	London Univ.	Sociology
ŞİRİN, Ahmet	1994	Nottingham Univ.	Education
TAŞDEMİR, Vicdan	1986	Uludağ Univ. Ins. Soc. Sc.	Painting
TÜRER, Cemal	1988	Heidelberg Univ.	Philosophy
TÜZÜN, Keriman	1984	M.U. Ins. Soc. Sc.	Painting History
USLU, Mustafa	1987	M.U. Ins. Soc. Sc.	German Language
ÜSTÜNDAĞ, Dursun	1991	Birmingham Univ.	Mathematics
YILDIRIM, Hacı Vural	1984	M.U. Ins. Soc. Sc.	Painting
YILDIZ, Cemal	1994	M.U. Ins. Soc. Sc.	German Language

MARMARA ÜNİVERSİTESİ YAYINEVİ

Lecturers:

AKSOY, Mustafa	1995	I.U. Ins. Soc. Sc.	Sociology
ALIŞIK, Gülşen	1990	I.U. Ins. Soc. Sc.	Old Turkish Language
ASLAN, Esra	1994	M.U. Ins. Soc. Sc.	Educational Sciences
AYDOĞDU, Şahali	1993	M.U. Ins. Soc. Sc.	French Language
BABA, Okan	1991	M.U. Ins. Soc. Sc.	Turkish Lang. and Lit.
BARUT, Mustafa	1993	I.U. F. of Lit.	At. Pr. and Ren. His.
BAYKAL, Erdoğan	1994	I.U. Ins. Soc. Sc.	Modern Turkish Language
BELLİSAN, Belgin	1985	M.U. Ins. Soc. Sc.	English Lang. and Lit.
BERK, Oya	1996	B.U.	English Language
BULUT, Ümran	1995	M.U. Ins. Soc. Sc.	Painting
ÇETİN, Münevver	1988	I.U. Ins. Soc. Sc.	Educational Sciences
DENİZ Levent	1994	M.U. Ins. Soc. Sc.	Educational Sciences
DENİZ, Tülin	1994	Caen Univ.	French Lit.
DOĞAN, Cihangir	1990	I.U. Ins. Soc. Sc.	Social Change
GARİPAĞAOĞLU, Nuriye	1990	Atatürk Univ. Ins. Soc. Sc.	Physical Geography
GÜREL, Rahşan	1993	M.U. Ins. Turk. St.	Old Turkish Language
GÜVEN, Kamiye	1990	I.U. Ins. Soc. Sc.	Behavioral Sciences
HOCAOĞLU, Durmuş	1995	I.U. Ins. Soc. Sc.	Islamic Philosophy
IŞIKSAL, Engin	1991	ETH Zürih Univ.	
İNAN, Mehmet	1996	M.U. Ins. Soc. Sc.	Physical Education and Sports
KABAHASANOĞLU, Vahap	1988	I.U. Ins. Soc. Sc.	Modern Turkish Lit.
KAPLAN, Muammer	1994	Nottingham Univ.	Philosophy
KARAKUŞ, Yusuf	1993	Durham Univ.	Physics
KAYALI, Hülya	1993	I.U. F. Mar. & G.	Geography
KÜLTÜRAL, Zühal	1994	M.U. Ins. Turk. St.	Turkish Language
ÖZDAYI, Nurhayat	1990	I.U. Ins. Soc. Sc.	Behavioral Sciences
ÖZGÜR, Nezihe	1994	M.U. Ins. Soc. Sc.	Educational Sciences
ŞAHİN, Özalp	1996	I.U. Ins. Soc. Sc.	German Language
ŞAHİN, Sema	1995	M.U. Ins. Soc. Sc.	
SALAN, Ümit	1993	Nottingham Univ.	Chemistry
SAVRAN, Canan	1993	I.U. Ins. Soc. Sc.	Educational Sciences
SEKİN, Sefa	1992	I.U. F. Mar. & G.	Geomorphology
SÜEL, Ercan	1992	M.U. Ins. Turk. St.	Modern age History
TANYOLU, Tuncay	1994	İTÜ	Energy Program
TAŞLIGİL, Nuran	1990	I.U. Ins. Mar. & G.	Economic Geography
TUZCUOĞLU, Necla	1995	M.U.Ins. Soc. Sc.	Educational Sciences
URAL, Ozana	1993	B.U.	Adult Education
UYKUCU, Ekrem	1974	I.U. F. of Lit.	Modern-age History
YÜCE, Şebnem	195	I.U. Ins. Soc. Sc.	German Language

FACULTY of ARTS and SCIENCES

Name	Year of Ph.D.	Institution	Field
Professors:			
ALTUN, Zikri	1982	Virginia Univ.	
AYDIN, Adnan	1980	I.U. F of Chem	Analytical Chemistry
BERKEM, Lütfü Mustafa	1980	I.U. F of Chem	Electrochemistry and Nuclear chemistry
BİLGİN, Orhan	1980	I.U. F of Lit	Persian Philology
ENGİNÜN, İnci	1968	I.U. F of Lit	Turkish Language
ENGİNÜN, Mine	1975	I.U. F of Phar	Analytical Chemistry
ERÜNSAL, İsmail	1977	Edinburgh Univ.	
FAKİOĞLU, Seyfettin	1975	The Catholic Univ. of Amirca	
FIRAT, Yurdun	1974	Keele Univ. GB	
GENÇ, Nebahat	1975	I.U. F of Sc.	Botanics
GÜLTEKİN, Nurbay	1978	K.T.Univ. F. Bas. Sc.	Chemistry
İLGÜREL, Mücteba	1970	I.U. F of Lit	Modern History
İPLİKÇİOĞLU, Bülent	1982	Vienna Univ.	Oldage History and Archeology
KUÇUK, Cevdet	1976	I.U. F of Lit	Modern age History
NASKALİ, Emine Gürsoy	1981	I.U. F of Lit	Turkish Language and Literature
OBAŞLI, Ülker	1983	I.U. F of Sc.	Physics
ÖZOK, Afet	1983	I.U. F of Sc.	Geometry
SAÇLI, Ömer Asım	1974	Sussex Univ.	Physics
SEMİZ, Belma Derman	1968	I.U. F of Sc.	General Botanics
SÜMER, Sabri	1976	I.U. F of Sc.	Botanics
VARLIK, Çelin	1972	I.U. F of Lit	Modern History
YELEKÇİ, Kemal	1966	Ohio Univ.	Chemistry
ZEHİR, Ahmet	1983	Edinburgh Univ.	Genetics
Associate Professors:			
AKDOĞAN, Semin	1990	I.U. F of Sc.	Mathematics
AKYILDIZ, Ali	1992	M.U. Ins. Turk. St.	Modern age History
ASLAN, Necdet	1993	Michigan Univ.	Nuclear Engineering
BOSTAN, İdris	1985	I.U. F of Ed.	Ottoman Foundations and History of Civilization
BULUT, Mustafa	1982	Bonn Univ.	
ÇİL, Hakan	1981	Atatürk Univ.	German Language and Literature
DERNEK Ahmet	1984	I.U. Ins. Sc.	Mathematics
KURŞUN, Zekeriya	1991	M.U. Ins. Soc. Sc.	Modern age History
ORALTAY, Gürcan	1990	Univ. of Nevada	Physics
ÖZBAŞ, Emin	1975	Birmingham Univ.	

MARMARA ÜNİVERSİTESİ YAYINEVİ

ÖZDOĞAN, Zeynep Sibel	1989	Yıldız Univ. Ins. Sc.	Mechanical Engineering
ÖZTÜRK, Necdet	1986	I.U. F of Lit.	Middle age History
ÖZTÜRK, Zafer Ziya	1983	Technissche Hochstivle Darmstadt	
SEVİM, Acar	1986	I.U. Ins. Soc. Sc.	German Language and Literature
UĞURVAN, Serna	1983	I.U. F of Lit.	Turkish Lang. and Lit
YILDIZ, Nuray	1982	I.U. F of Lit.	Old age History
YÜCE, Rikap	1983	I.U. F of Sc.	Biology

Assistans Professors:

AKTAŞ, Şahin	1993	South Caroline Univ.	Physics
ALPTEKİN, Nesrin	1990	I.U. F of Chem.	Analytical Chemistry
BAKIR, Ali	1979	Ataturk Univ. F of Sc.	Physics
BAYKARA, Abdülbaki	1977	Salford Univ.	Mathematics
BEYOĞLU, Süleyman	1991	M.U. Ins. Soc. Sc.	Modern age History
BÜYÜKKANTARCIOĞLU, Nalan	1991	H.U. Ins. Soc. Sc.	Western Lang and Lit.
DENİZ, Sebahat	1992	M.U. Ins. Turk. St.	Old Turkish Lit.
DERNEK, A. Nega	1984	I.U. F of Sc.	Mathematics
DUMAN, Harun	1991	M.U. Ins. Soc. Sc.	Modern Turkish Lit.
FIRAT, Ümit	1989	I.U. Ins. Soc. Sc.	Management
GÜLSOY, Ufuk	1994	M.U. Ins. Turk. St.	Modern age History
GÜR, Muhammet	1992	M.U. Ins. Turk. St.	Modern Turkish Lit.
İÇİMBOY, Ahmet Oğuz	1993	London Univ.	
KANDUR, Hamza	1992	Loughborough Univ.	
KARACA, Ali	1992	M.U. Ins. Turk. St.	Modern age History
KAYA, Ceval	1989	I.U. Ins. Soc. Sc.	Old Turkish Language
KESKİN, Siddik Sinan	1995	Massachusetts Insitute of Technology	Nuclear Engineering
KÖROĞLU, Kemalettin	1994	I.U. Ins. Soc. Sc.	Oldage History
KÜÇÜK, Sadi Süleyman	1993	M.U. Ins. Turk. St.	Middle age History
MAZMANOĞLU, Adnan	1986	I.U. Ins. Soc. Sc.	Numeric Methods
OĞAN, Ayşe	192	M.U. Ins. H. Sc.	Biochemistry
ÖZBENT, Süeda	1991	Eichstatt Katolik Univ.	
ÖZTOPRAK, Nihat	1993	M.U. Ins. Turk. St.	Old Turkish Lit.
SAĞOL, Gülden	1993	M.U. Ins. Turk. St.	Turkish Language
SEFERCİOĞLU, Nejat	1984	H.Ü. F of Lit.	Turkish Lang. and Lit.
ŞİMŞİROĞLU, Ahmet	1991	M.U. Ins. Soc. Sc.	Modern age History
TAŞÇIOĞLU, Sülin	1996	I.U. Ins. Sc.	Chemistry
TÖRE, Enver	1991	M.U. Ins. Soc. Sc.	Turkish Lit.
ÜLGEN, Aygün	1993	M.U. Ins. Soc. Sc.	Islamic Civilization and Social Sci.

MARMARA ÜNİVERSİTESİ YAYINEVİ

Lectures:

ALİŞ, Şehnaz	1994	M.U. Ins. Turk. St.	Modern Turkish Lit.
AZAMAT, Nihat	1995	M.U. Ins. Turk. St.	Modern age History
ÇOLAKOĞLU, Günay	1984	Atatürk Univ. Ins. Sc.	Biology
İZMERLİOĞLU, Işık	1984	I.U. F of Sc.	Mathematics
KANLIDERE, Ahmet	1995	Columbia Univ.	History
KARI, Gülten	1990	Yıldız Teknik Univ. Ins. Sc.	Mathematics
KÖSE, Filiz	1996	M.U. Ins. Sc.	Mathematics
YAHŞİ, Uğur	1994	Case Western Reserve Univ.	

Specialists:

BARSAMYAN, Uzman Mari	1989	M.U. Ins. Sc.	Musics

MARMARA ÜNİVERSİTESİ

MARMARA ÜNİVERSİTESİ YAYINEVİ

FACULTY of COMMUNICATION

Name	Year of Ph.D.	Institution	Field
Professors:			
ÇELEBİCİOĞLU, Fuat	1974	İ.Ü. F of BA	Management
DAİ, Uğur	1983	M.Ü. Ins. Soc. Sc.	Economics and BA
KARAHASANOĞLU, Taner	1978	E.İ.T.İ.	
ORKAN, L. Ahmet	1987	M.Ü. Ins. Soc. Sc.	System Analysis-Statistics
OSKAY, Ünsal	1972	A.Ü. F of Pol. Sc.	Political Science
ÖZGEN, M. İhsan	1965	İ.Ü.	Journalism & Public Relations
ÖZTUNA, Güner	1975	A.Ü. F of Lit. & G.	Human Behavior and Communication
URAS, Güngör	1977	İ.Ü. F of Ec.	Economics Economics
URAZ, Çevik	1971	A.İ.T.İ.	Market Administration
ODABAŞI, Hatice	1986	M.Ü. Ins. Soc. Sc.	Graphics
Associate Professors:			
ASNA, Alaeddin	1990	İ.Ü. Ins. Soc. Sc.	Public Relations
ATILGAN, Semra	1991	M.Ü. Ins. Soc. Sc.	Journalism and Pub. Rel.
BAYKAL, Hülya	1982	İ.Ü. F of Ec.	Economics
CANKAYA, Özden	1967	M.Ü. Ins. Soc. Sc.	Journalism, Public Relations and Radio & TV
İNCEOĞLU, G. Yasemin	1990	M.Ü. Ins. Soc. Sc.	Journalism and Pub. Rel.
OKTAY, Mahmut	1991	İ.Ü. Ins. Soc. Sc.	Journalism and Pub. Rel.
PELTEKOĞLU, B. Filiz	1988	M.Ü. Ins. Soc. Sc.	Journalism and Pub. Rel. & TV
ŞAHİNKAYA, Ahmet	1992	İ.Ü. Ins. Soc. Sc.	Political Structure of the EC
SARMAŞIK, Jale	1988	İ.Ü. Ins. Soc. Sc.	Public Administration
ŞİMŞEK, C. Melda	1987	İ.Ü. Ins. Soc. Sc.	Economics
TÜRKOĞLU, Nurçay	1988	İ.Ü. Ins. Soc. Sc.	Radio & TV
ESEN, Şükran	1990	M.Ü. Ins. Soc. Sc.	Radio & TV
HANİOĞLU, B. Arsev	1988	B.Ü. Ins. Soc. Sc.	Political Science
ÖZERKAN, A. Şengül	1991	M.Ü. Ins. Soc. Sc.	Journalism and Public Rel.
Assistant Professors:			
BİRYILDIZ, Esra	1986	E.A.Ü. Ins. Soc. Sc.	Cinema & TV
ÇEVİRİR, Necati	1991	İ.Ü. Ins. Soc. Sc.	Politics of Organization and Management
GÜN, S. Funda	1994	M.Ü. Ins. Soc. Sc.	Journalism and Public Rel.
İYİGÜNGÖR, Vildan	1987	İ.Ü. F of Ec.	Economics
SAVAŞ, Tuğrul	1985	M.Ü. Ins. Soc. Sc.	Management

MARMARA ÜNİVERSİTESİ YAYINEVİ

Lecturers:

ATIŞ, Kazım	–	–	–
TINGÖY, Özhan	1994	M.U. Ins. Soc. Sc.	
BATUR, F. Işık	1993	M.U. Ins. Turk. St.	Management of Production and Marketing
NEBİOĞLU, Ziya	–	–	–
KIZIL, Neşe	–	–	–
ÇETİNOK, Nejat	–	–	–
GÜVEN, Kayıhan	–	–	–
GİRGİN, Atilla	–	–	–
AKBIYIK, Seval	1982	İ.U. F of Ec.	Economics
AYDIN, D. Emin	–	–	–
IŞIKÖSTÜN, Ziya	–	–	–

Research Assistants:

AKYAZI, Erhan	–	–	–
AYDIN, Ayhan	–	–	–
AYDIN, Ç. Mukadder	–	–	–
AYDOĞAN, Filiz	–	–	–
BALABANLAR, Ali	1997	M.U. Ins. Soc. Sc.	–
BALKAŞ, Eda	–	–	–
ÇETİN, Zeynep	–	–	–
ÇÖKLÜ, Y. Ece	–	–	–
DALBUDAK, Şulecan	–	–	–
DENİZCİ, Ö. Mert	–	–	–
DİLMEN, N. Emel	–	–	–
DURMAZ, Betül	–	–	–
ELDENİZ, Levent	–	–	–
ERASLAN, Pınar	–	–	–
GÜRSOY, Bilge	–	–	–
GÜZELCİK, Ebru	–	–	–
KABAN, Y. Zeynep	–	–	–
KARAYEL, Emel	–	–	–
KARS, Neşe	1996	M.U. Ins. Soc. Sc.	Radio & TV
KAYPAKOĞLU, Serdar	1996	M.U. Ins. Soc. Sc.	International Relations
KIREL, Serpil	–	–	–
KONCAVAR, T. Ayşe	–	–	–
KORKMAZ, A. Yeşim	–	–	–
KOYUNCU, Emine	–	–	–
ODABAŞ, Battal	1996	M.U. Ins. Soc. Sc.	Radio & TV
OKAY, Aydemir	1997	M.U. Ins. Soc. Sc.	Journalism and Public Rel.
ÖZER, Sema	–	–	–
OZGEN, Ebru	–	–	–
ÖZTÜRK, Ahmet	1996	M.U. Ins. Soc. Sc.	Journalism and Public Rel.
ÖZTÜRK, Mehmet	–	–	–

MARMARA ÜNİVERSİTESİ YAYINEVİ

PEKMAN, Cem	1996	M.U. Ins. Soc. Sc.	Radio & TV
SEVSAY, Emel	–	–	–
SEZGİN, Julide	–	–	–
SİPAHİ, Berİl	–	–	–
SOYDAŞ, U. Ayda	–	–	–
ULUS, Selma	1996	M.U. Ins. Soc. Sc.	Journalism and Public Rel.
ULUSU, Yeşim	–	–	–
YILMAZ, Emel	–	–	–

MARMARA ÜNİVERSİTESİ 1883
MARMARA ÜNİVERSİTESİ

MARMARA ÜNİVERSİTESİ YAYINEVİ

FACULTY of DENTISTRY

Name	Year of Ph.D.	Institution	Field
Professors:			
ALKUMRU, N. Hasan	1983	A.U.	Crown Bridge
ARIKAN, Ayla	1980	A.U.	Crown Bridge
ATALAY, Turhan	1976	Atatürk Univ. F of Den.	Pathology
ATASU, Metin	1969	M.U. Statistical Genetics	Genetics
BAŞARAN, Bülent	1961	Göttingen Univ.	Treatment
BİŞKİN, Turan	1978	M.U. F of Den.	Prosthodontics
EFEOĞLU, Elvan	1986	I.U. Ins. H. Sc.	Periodontology
EMEKLİ, Nesrin	1974	I.U. Cer. Med. School	Bio-chemistry
ENERGİN, Kaya	1976	M.U. F of Den.	Oral Surgery
ERVERDİ, Nejat	1981	H.U. Ins. of H. Sc.	Orthodontics
GÜNDAY, Mahir	1981	A.U. F of Den.	Operative Dentistry
GÜVENER, Övün	1969	H.U. F of Den.	Oral Surgery
GÜVENER, Sungur	1966	H.U. F of Den.	Prosthodontics Treatment
ÖZBAYRAK, Semih	1983	Berlin Univ.	Mouth diseases and Radiology (X-rays)
ŞİMŞİK, Şükran	1980	I.U. Med. Sch.	Pharmachology
TANOĞA, İlknur	1981	H.U. F of Den.	Paedodontics
YILMAZ, Selçuk	1976	Bristol Univ.	Periodontology
	1973	I.U. F of Den.	Periodontology
Associate Professors:			
AKYÜZ, Serap	1987	M.U. Ins. H. Sc.	Paedodontics
DÜZDAR, Lale	1987	M.U. Ins. H. Sc.	Paedodontics
GÖKER, Kamil	1989	M.U. Ins. H. Sc.	Oral Sugery
KPAINTINGAL, Nevin	1988	M.U. Ins. H. Sc.	Endodontics
KAZAZOĞLU, Ender	1981	London Univ.	Prosthodontics
KÜÇÜKKELEŞ, Nazan	1989	M.U. Ins. H. Sc.	Orthodontics
KURU, Bahar	1992	M.U. Ins. H. Sc.	Periodontology
NOYAN, Ülkü	1989	M.U. Ins. H. Sc.	Periodontology
TOPBAŞI, Bülent	1980	Dicle Univ. F of Den.	Operative Dentistry
YANIKOĞLU, Funda	1990	M.U. Ins. H. Sc.	Operative Dentistry
YARAT, Ayşen	1988	M.U. Ins. H. Sc.	Biochemistry

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Assistant Professors:

GEMALMAZ, Deniz	1989	M.U. Ins. H. Sc.	Oral Diagnosis and radiology (x-rays)
KADIR, Tanju	1992	M.U. Ins. H. Sc.	Microbiology
KELEŞ, Ahmet Ö.	1994	Harvard Univ.	Oral Biology
KULAK, Yasemin	1992	M.U. Ins. H. Sc.	Total Prothesis
SERETOĞZ, Atilla	1993	M.U. Ins. H. Sc.	Implantology

Research Assistants

DEMİRBAŞ, A. Bülent	1995	M.U. Ins. H. Sc.	Crown Bridge
GÜRSOY, Bahar	1992	M.U. Ins. H. Sc.	Oral Surgery
KARGÜL, Betül	1993	M.U. Ins. H. Sc.	Paedodontics
ÖZDEMİR, Sevgi	1994	M.U. Ins. H. Sc.	Crown Bridge
SAZAK, Hesna	1991	M.U. Ins. H. Sc.	Endodontics

Specialists

SALİH, İmad Muhammet	1992	M.U. Ins. H. Sc.	Oral Surgery

MARMARA ÜNİVERSİTESİ

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FACULTY of DIVINITY

Name	Year of Ph.D.	Institution	Field
Professors:			
ATAR, Fahrettin	1975	Atatürk Univ. İslamic Sc.	Islamic Law
AYVALLI, Ramazan	1979	A.Ü. F of Div.	Hadith
BALTACI, Cahid	1975	I.U. F of Lit.	History
BAYRAKLI, Bayraktar	1982	I.U. F of Lit.	Literature
ÇETİNER, Bedrettin	1983	M.U. Ins. Soc. Sc.	Commentary
ÇİÇEK, Yakup	1983	M.U. Ins. Soc. Sc.	Commentary
DÖNMEZ, İbrahim Kafi	1981	Atatürk Univ. İslamic Sc.	Islamic Law
ERKAL, Mehmet	1981	Atatürk Univ. İslamic Sc.	Islamic Law
FAYDA, Mustafa	1972	A.Ü. F of Div.	Islamic History
GÜMÜŞ, Sadrettin	1983	M.U. Ins. Soc. Sc.	Divinity
GÜNDÜZ, İrfan	1983	M.U. Ins. Soc. Sc.	Sufism
HARMAN, Ömer Faruk	1983	M.U. Ins. Soc. Sc.	History of Religions
KANDEMİR, Yaşar	1977	I.U. F of Lit.	Islamic Law
KARAÇAM, İsmail	1984	M.U. Ins. Soc. Sc.	Commentary
KARAMAN, Hayrettin	1984	M.U. Ins. Soc. Sc.	Islamic Law
KARUĞA, Bekir	1980	I.U. F of Lit.	Islamic Philosophy
KAZICI, Ziya	1983	Atatürk Univ. İslamic Sc.	Islamic History
KILIÇ, Yusuf	1978	I.U. F of Lit.	Literature
MAKSUDOĞLU, Mehmet	1966	A.Ü. F of Div.	Islamic History
ÖZ, Mustafa	1986	M.U. Ins. Soc. Sc.	Divinity
TAHİRALI, Mustafa	1973	Paris Sorbon Univ.	Islamic Philosophy
TAYLAN, Necip	1983	M.U. Ins. Soc. Sc.	Kalam
TUĞ, Salih	1963	I.U. F of Lit.	Islamic Tax law
UZUN, Mustafa	1984	M.U. Ins. Soc. Sc.	Kalam Tasavvuf
YAVUZ, Yusuf Şevki	1985	M.U. Ins. Soc. Sc.	Kalam
YENİÇERİ, Celal	1983	A.U. Ins. Soc. Sc.	Islamic Law
YEPREM, M. Salim	1983	M.U. Ins. Soc. Sc.	Kalam
YILDIRIM, Suat	1973	Atatürk Univ. Ins. Soc. Sc.	Commentary
YILMAZ, Hasan Kamil	1983	M.U. Ins. Soc. Sc.	Sufism
YURDAGÜR, Metin	1984	M.U. Ins. Soc. Sc.	Kalam
Associate Professors:			
AKSO, Hasan	1984	M.U. Ins. Soc. Sc.	Kalam and Islamic Phil.
ARSLAN, Ahmet Turan	1983	M.U. Ins. Soc. Sc.	Arabic
BAYRAKTAR, M. Faruk	1983	M.U. Ins. Soc. Sc.	Education of Religion
ÇAMDİBİ, Mahmut	1983	M.U. Ins. Soc. Sc.	Education of Religion
ÇELEBİ, İlyas	1991	M.U. Ins. Soc. Sc.	Kalam
DARYA, Ali Murat	1988	M.U. Ins. Soc. Sc.	
DODURGALI, A.	1991	M.U. Ins. Soc. Sc.	Education of Religion
ERBAY, Celal	1984	M.U. Ins. Soc. Sc.	Islamic Law

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SERİN, Muhittin	1983	M.U. Ins. Soc. Sc.	Turkish Islamic Art
SUBAŞI, M. Hüsrev	1984	M.U. Ins. Soc. Sc.	Kalam and İslam Phil.
USLA, Mustafa	1984	M.U. Ins. Soc. Sc.	Kalam Tasavvuf
YİĞİT, İsmail	1983	M.U. Ins. Soc. Sc.	Divinity

Assistant Professors:

AISSUZ, U. Ebim	1992	M.U. Ins. Soc. Sc.	Hadith
ALTUNDAĞ, Mustafa	1994	M.U. Ins. Soc. Sc.	Commentary
BEBEK, Adil	1990	M.U. Ins. Soc. Sc.	Kalam
BOZKURT, Nebi	1991	M.U. Ins. Soc. Sc.	Hadith
ÇOLLAK, Fatih	1992	M.U. Ins. Soc. Sc.	Commentary
ÇÖRTÜ, M. Meral	1990	M.U. Ins. Soc. Sc.	Commentary
DEMİRCİ, Muhsin	1988	M.U. Ins. Soc. Sc.	Commentary
DURUSOY, Ali	1992	M.U. Ins. Soc. Sc.	Islamic Philosophy
ELİK, Hasan	1990	Suudi Ara. Umm-AlKura Univ.	Commentary
ERDOĞDU, Sabri	1980	Ataturk Univ. İslamic Sc.	İslam Law
EROĞLU, Muhammed	1984	M.U. Ins. Soc. Sc.	Hadith
FERSAHOĞLU, Yaşar	1993	M.U. Ins. Soc. Sc.	Education of Religion
IŞIK, Emin	1984	M.U. Ins. Soc. Sc.	Commentary
KARA, İsmail	1993	İ.U. Ins. Soc. Sc.	Political Sciences
KILIÇ, Ercl	1995	M.U. Ins. Soc. Sc.	Sufism
KILLIOĞLU, İsmail	1985	İ.U. Ins. Soc. Sc.	Law
KÜÇÜK, Raşit	1984	M.U. Ins. Soc. Sc.	Hadith
KURTOĞLU, Kenan	1992	İ.U. Ins. Soc. Sc.	Tourism
KUTLAY, İbrahim	1994	Suudi Ara. Umm-AlKura Univ.	Commentary
KUTLUER, İlhan	1990	M.U. Ins. Soc. Sc.	Islamic Philosophy
ÖZCAN, Nuri	1983	M.U. Ins. Soc. Sc.	Religious Music
ŞAHİN, M. Süreyya	1979	A.U. F of Div.	History of Religions
SOYYİĞİT, Zeki	1990	M.U. Ins. Soc. Sc.	Islamic Civilization
TEMEL, Nihat	1991	M.U. Ins. Soc. Sc.	Commentary
TOBAY, Ahmet	1991	M.U. Ins. Soc. Sc.	Hadith
ÜNLÜ, Nuri	1990	M.U. Ins. Soc. Sc.	Islamic History
URHAN, Nedim	1990	M.U. Ins. Soc. Sc.	Hadith
UYSAL, Veysel	1990	M.U. Ins. Soc. Sc.	Religious Psychology
YARAN, Raluni	1994	M.U. Ins. Soc. Sc.	Islamic Law
YEL, Basri	1996	Dokuz Eylül Univ.	Philosophy
YILMAZ, Nedim	1989	M.U. Ins. Soc. Sc.	Commentary
YILMAZER, Ziya	1990	İ.U. Ins. Soc. Sc.	Modern age History
YÜCEL, Ahmet	1994	M.U. Ins. Soc. Sc.	Hadith
YÜKSE, Ali Osman	1984	M.U. Ins. Soc. Sc.	Commentary
ZEVALSİZ, Halit	1983	M.U. Ins. Soc. Sc.	Commentary

Vocational School of Divinity

AKÜZ, Vecdi	1989	M.U. Ins. Soc. Sc.	Islamic Law
AKYÜZ, Ali	1992	M.U. Ins. Soc. Sc.	Hadith
ATAÇ, Ali	1993	M.U. Ins. Soc. Sc.	Kalam
BARDAKOĞLU, Ali	1982	Atatürk Univ. Islamic Sc.	Islamic Law
ÇAKAN, İsmail	1982	Atatürk Univ. Islamic Sc.	Hadith
SEZEN, Yümni	1987	İ.U.	Social Structure
TURHAN, Kasım	1991	M.U. Ins. Soc. Sc.	Islamic Philosophy
ÜSTÜN, İ. Sefa	1991	Viktoria Univ.	Islamic History

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MARMARA ÜNİVERSİTESİ YAYINEVİ

FACULTY of ECONOMICS and ADMINISTRATIVE SCIENCES

Name	Year of Ph.D.	Institution	Field
Professors:			
ADAL, Erhan	1963	I.U. F of Law	Private Law
AKARÇAY, Vural	1976	I.I.T.İ.A.	Accounting Finance
AKIN, Besim	1974	A.U.	Statistics
AKYÜZ, Müfit	1985	M.U.	Economic Improvement and National Economy
ALTUĞ, Osman	1972	I.I.T.İ.A.	Accounting-Finance
PAINTINGAN, Sinan	1976	I.I.T.İ.A.	Administration and Organisation - Human Resources
ASLAN, Nurdan	1986	M.U. Ins. Soc. Sc.	Economics
ATAMAN, Ümit	1974	I.I.T.İ.A.	Accounting-Finance
BAĞIRKAN, Şemsettin	–	I.I.T.İ.A.	Statistics
BAĞRIAÇIK, Atilla	1975	Vienna Univ.	Economics
BAKIR, Pınar	1975	I.I.T.İ.A.	Finance
BATIREL, Ömer Faruk	1973	I.I.T.İ.A.	Financial Law
BERKSOY, Taner	1975	Cambridge Univ.	Economics
BERKSOY, Turgay	1982	M.U.	Finance
BERZEK, Ayşe Nur	1985	I.U. F of Law	Law
BERZEK, Mehmet Naili	1983	M.U. Ins. Soc. Sc.	Administration and Organisation
BURÇKIN, Emre	1984	M.U.	Accounting-Finance
CİVELEK, Jale	1979	Nice Univ. IDPD	International Law
DİNÇER, Ömer	1984	I.U. F of BA	Administration and Organisation
DOĞAN, İbrahim	1985	M.U. F of EC. & Ad. Sc.	Statistics
DOĞRUEL, Ali Suat	1987	B.Ü.	Economics
DOĞRUEL, Fatma	1987	Çukurova Univ. Ins. Sc.	Agricultural Economy
DÖRDÜNCÜ, Nevin Soygür	1974	Adana İ.T.İ.A.	Trade Law
DURMUŞ, Ahmet Hayri	1972	İst. İ.T.İ.A.	Accounting-Finance
ENGİN, Nazım	1976	University of Surrey	International Trade
EREM, Turç	1968	I.I.T.İ.A.	Business Administration
ERTOP, Kıvanç	1963	I.I.T.İ.A.	International Economics
GÜNEŞ, Hurşit	1968	MSC (Ecan) Economics	Economic Policy
GÜRİŞ, Selahattin	1984	M.U. Ins. Soc. Sc.	Statistics
GÜRSOY, Akile	1980	H.Ü.	Anthropology
GÜVEMLİ, Oktay	1971	Ege Univ.	Accounting Finance
GÜZEL, Ali	1976	Grenable F of Law	Business Law
HACIRÜSTEMOĞLU, Rüstem	1983	M.U.	Accounting-Finance
İLYASOĞLU, Eyüp	1975	M.U.	Business Administration
IŞGÜDEN, Tamer	1973	I.I.T.İ.A.	International Economics
KATIRCIOĞLU, Erol	1984	M.U. Ins. Soc. Sc.	Business Administration

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KESEBİR, Zafer	1976	İ.İ.T.İ.A.	Business Administration
KIVANÇ, Cemil	1974	Münster Univ.	Economics
KOCAMAZ, Tuncay	1976	İ.T.İ.A.	
KÖKTÜRK, Mehtap	1977	İ.Ü. F of Ec.	Economics
LORDOĞLU, Kuvvet	1982	İ.Ü. F of Ec.	Economics
OKMAN, Cengiz	1974	New York Univ.	
OKUR, Ali Rıza	1981	İ.Ü. F of Law	Business Law
ONAL, Güngör	1974	Bursa İ.T.İ.A.	Business Administration
ORHAN, Osman Zekai	–	İ.Ü. F of Ec.	Economics
ORMAN, Sabri	1981	İ.Ü. F. of Ec.	Economics
PUR, Necla	1974	İ.İ.T.İ.A.	Economics
ŞAKAR, Müjdat	1987	İ.Ü. İns. Soc. Sc.	Economics Law and Social Security Law
SARUHAN, Sadi Can	1985	M.Ü. İns. Soc. Sc.	Administration and Organisation
SAVAŞ, Vural	1982	Eskişehir İ.T.İ.A.	
SAYBAŞILI, Kemali	1975	Glasgow Univ.	Political Sciences
ŞENER, Orhan	1974	Bursa İ.T.İ.A.	Public Administration
SEZGİN, Orhan	1978	İ.İ.T.İ.A.	Economics
SÜMER, Haluk	1985	M.Ü. İns. Soc. sc.	Accounting-Finance
SUNGUR, Nesrin Ertel	1985	M.Ü. İns. Soc. Sc.	Economics
TABAKOĞLU, Ahmet	1981	İ.Ü. F of Ec.	Economic History
TELİMEN, Osman	1973	İ.İ.T.İ.A.	Administration and Organisation
TEVRUZ, Suna	1977	H.Ü.	Social Psychology
TUNA, Ergun	1954	Frankfurt Goethe	Marine Trade Law
TURANLI, Münevver	1975	İ.Ü. F of Ec & Ad. Sc.	Statistics
TURANLI, Rona	1977	İ.İ.T.İ.A.	Economics
TÜRKEL, Asuman		İ.T.Ü. Bus. Ad.	Administration and Organisation
URAS, Oğuz	1976	İ.İ.T.İ.A.	Administration and Organisation
VERGİN, Nur	1973	Paris Sorbonne Univ.	Sociology
VURAN, Ateş		İ.İ.T.İ.A.	Statistical Quality Control in Continous Production
YARIZ, S. Erol	1977	Torino Univ.	Applied Mathematics
YAZICI, Mehmet		Vienna Ec. Univ.	Accounting
YÜKSEL, Sait	–	J.W. Goethe Univ.	International Economics Law

Associate Professors:

AĞAOĞLU, Abdülgaffar	1969	A.Ü. İns. Soc. Sc.	Accounting-Finance
AKSOY, Ali Haydar	1985	M.Ü. İns. Soc. Sc.	Marketing
ALTUĞ, Nuray	1986	M.Ü. İns. Soc. Sc.	Economics
ANIL, İbrahim	1986	M.Ü. İns. Soc. Sc.	Business Administration
ARAT, Mehmet Emin	1969	B.Ü.	Accounting
PAINTINGAN, İnci	1985	M.Ü. İns. Soc. Sc.	Administration and Organisation
AYTAÇ, Mustafa	1987	Uludağ Univ. Soc. Sc.	Industrial Relations

MARMARA ÜNİVERSİTESİ YAYINEVİ

BAHAR, Büşra Ersanlı	1989	B.U. Ins. Soc. Sc.	Political Science
BİLGİN, Fatma Zeynep	1990	B.U. Ins. Soc. Sc.	Marketing and Organisational Behavior
BOZKURT, Nejat	1984	M.U. Ins. Soc. Sc.	Business Administration
BOZKURT, Tülay Şimşek	1986	H.U. Ins. Soc. Sc.	Social Services
BÜLBÜL, Şehamet	1988	M.U. Ins. Soc. Sc.	Statistics
ÇAKMAK, Ahmet	1981	I.U. F of Ec.	Economics
ÇETİNKAYA, J. Gemicioğlu	1991	M.U. Ins. Soc. Sc.	Management & Organisation
ÇETİN, Canan	1986	M.U. Ins. Soc. Sc.	Administration and Organisation
DENİZ, Nevin	1987	M.U. Ins. Soc. Sc.	Administration and Organisation
ERDER, Sema Köksal	1985	M.U. Ins. Soc. Sc.	Political Science
GÜRBÜZ, Ali Osman	1987	M.U. Ins. Soc. Sc.	Finance
GÜRDAL, Sehavet	–	Dokuz Eylül Univ. F of BA	Production, Management Marketing
HİÇ, Süreyya	1974	I.U. F of Ec.	
İNCEOĞLU, Nihal	1983	A.U. Ins Soc. Sc.	Political Science
İNSEL, Aysu	1987	Southampton Univ.	Econometry
KONURALP, Gürel	1990	I.U. Ins. Soc. Sc.	Management Finance
KÜÇÜKAHMETOĞLU, Osman	1986	M.U. Ins. Soc. Sc.	Economics
KUT, Ayşe Şule	1986	State Univ. of New York at Binghampton	International Relations
MUTLU, Ayşegül	1989	I.U. Ins. Soc. Sc.	Finance
NARLI, Ayşe Nilüfer	1987	Univ. Sains Malaysia	Political Sociology
NİSSEL, Nurettin	1986	I.U. F of BA	Numeric Methods
OĞUZ, Sedefhan	1990	M.U. Ins. Soc. Sc.	Business Administration
OKTAR, Suat	1985	M.U. Ins. Soc. Sc.	Economics
OKTAR, Tığınçe	1984	M.U. Ins. Soc. Sc.	Economics
ÖZBUDUN, Mehmet Ali	1987	M.U. Ins. Soc. Sc.	Economics
ÖZVEREN, Mina	1986	M.U. Ins. Soc. Sc.	Administration and Organisation
ÖKAN, Mehmet	1986	M.U. Ins. Soc. Sc.	Accounting
PİRİLİ, Mustafa	1980	I.T.I.A.	Economics
ŞENSOY, Sehavet	1984	M.U. Ins. Soc. Sc.	Accounting
SİNANGİL, Handan Kepir	1984	A.U. Ins. Soc. Sc.	Psychology
TANYOL, Tuğrul	1980	I.U. F of Lit.	Literature
TOP, Kadir Aykut	1986	M.U. Ins. Soc. Sc.	Production Management
TURHAN, Ali Vahit	1985	Provence Univ.	Political Philosophy
UĞUR, Yaşar Aydın	1986	A.U. Ins. Soc. Sc.	Public Administration and Political Science
ÜNKAYA, Gülümser	1985	M.U. Ins. Soc. Sc.	Accounting-Finance
ÜSTEL, Füsun	1987	A.U. Ins. Soc. Sc.	Public Adm. and Political Science
YOZGAT, Uğur	1990	M.U. Ins. Soc. Sc.	Administration and Organisation

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Assistant Professors:

AKALIN, Gülsum	1981	M.U. Ins. Soc. Sc.	Economics
AKALIN, Selçuk	1985	M.U. Ins. Soc. Sc.	Economics
AKGÜL, Işıl	1988	I.U. Ins. Soc. Sc.	Statistics
AKGÜN, Mensur	1992	B.U. Ins. Soc. Sc.	International Relations
AKTAR, Ayhan	1989	I.U. Ins. Soc. Sc.	Sociology
AKYÜZ, Ümran	1989	M.U. Ins. Soc. Sc.	Economics
ARAT, S. Ümit Atamtürk	1991	I.U. Ins. Soc. Sc.	Journalism
ARGUN, Doğan	1991	M.U. Ins. Soc. Sc.	Accounting
ARI, Aylan	1975	I.U. F of Ec.	Economics
ATACAN, Fulya	1982	M.U. Ins. Soc. Sc.	Politics and Soc. Sci.
ATAMAN, Göksel	1994	M.U. Ins. Soc. Sc.	Administration and Organisation
AYYILDIZ, Bülent	1991	M.U. Ins. Soc. Sc.	Business Administration
BAŞBUĞU, Ayşegül	1991	I.U. Ins. Soc. Sc.	Journalism and Public Relations
BAYTEKİN, Özcan	1989	I.U. Ins. Soc. Sc.	Numeric Methods
ÇAYHAN, Esra	1989	I.U. Ins. Soc. Sc.	International Relations
ÇELİK, Gülfettin	1994	M.U. Ins. Soc. Sc.	Economics
DOĞAN, Binali	1986	M.U. Ins. Soc. Sc.	Business Administration
DOĞRUSÖZ, Ahmet Burnin	1989	I.U. Ins. Soc. Sc.	Tax Law
DOYURANGÜL, N. Cemert	1985	M.U. Ins. Soc. Sc.	Business Administration
EKMEKÇİOĞLU, Özlenen	1984	M.U. Ins. Soc. Sc.	Business Administration
ERSOYLU, Ümran	1986	M.U. Ins. Soc. Sc.	Economics
GÖKÇEN, Şevki	1992	M.U. Ins. Soc. Sc.	Business Administration
GÖKDENİZ, Ümit	1991	M.U. Ins. Soc. Sc.	Accounting
GÜNER, Ayşe	1992	M.U. Ins. Soc. Sc.	Politics and Soc. Sci.
GÜNEY, Nurşın Ateşoğlu	1992	I.U. Ins. Soc. Sc.	International Relations
GÜNYAŞAR, Varol	1990	M.U. Ins. Soc. Sc.	
İBİŞ, Cemal	1992	M.U. Ins. Soc. Sc.	Accounting
İME, Mustafa	1985	M.U. Ins. Soc. Sc.	Business Administration
KAYLAV, Şevki	1986	M.U. Ins. Soc. Sc.	Mathematics
KERTET, Ferhat	1989	Ecole des Hautles Et des es Sciences	Political Sociology
KOCAPAZAR, Yonca	1992	M.U. Ins. Soc. Sc.	Business Administration
KÖTELİ, Argun	1983	I.U. Ins. Soc. Sc.	Law
KOZANOĞLU, Hayri	1988	M.U. Ins. Soc. Sc.	Accounting-Finance
KUTLAN, Semal	1990	Vienna Univ.	Accounting-Finance
LEBLEBİCİOĞLU, Aynur	1990	M.U. Ins. Soc. Sc.	Economical Sociology
MUTLU, Esin Can	1991	M.U. Ins. Soc. Sc.	Administration and Organisation
OKALIN, Nesihan	1985	M.U. Ins. Soc. Sc.	Business Administration
ÖNDER, Ayşe Türkan	1994	M.U. Ins. Soc. Sc.	Business Administration
ÖZCAN, Gencer	1992	B.U. Polit.Sc. and Inter Rel.	International Relations
ÖZDOĞAN, Günay	1990	M.U. Ins. Soc. Sc.	Political Sciences
ÖZMEN, Şule	1991	M.U. Ins. Soc. Sc.	Econometry

MARMARA ÜNİVERSİTESİ YAYINEVİ

SAĞMANLI, Metin	1991	Vienna Univ.	Accounting-Finance
SEVİĞ, Veysi	1991	M.U. Ins. Soc. Sc.	Financial Theory
SOYAK, Alkan	1994	M.U. Ins. Soc. Sc.	Economics
SÖZER, Jale Özlemir	1986	M.U. Ins. Soc. Sc.	
SÜMER, Ayşe	1990	M.U. Ins. Soc. Sc.	Private Law
TINAZ, Pınar	1992	M.U. Ins. Soc. Sc.	Organizational Behavior
TÜRKAY, Mehmet Rıza	1994	M.U. Ins. Soc. Sc.	Economics
URFALIOĞLU, Fatma	1986	M.U. Ins. Soc. Sc.	Mathematics
USER, İnci	1992	M.U. Ins. Soc. Sc.	Politics and Soc. Sci.
USLU, Aypar Topkara	1993	M.U. Ins. Soc. Sc.	Marketing
USLU, Kamil	1986	M.U. Ins. Soc. Sc.	Economics
YAMAK, Oygur	1983	M.U. Ins. Soc. Sc.	Business Administration
YAVUZ, Ekrem	1983	I.U. Ins. Soc. Sc.	Accounting
YAVUZ, Suat	1987	M.U. Ins. Soc. Sc.	Economics

Lecturers:

AROMA, Bekir	1977	U.T.I.A.	
KOTİL, Ahmet Emin	1981	I.U. F. of BA.	Political Sciences
ÖZARALLI, Nurdan	1995	M.U. Ins. Soc. Sc.	Business Management Organi. Behavior
SARPYENER, Ahmet	1977	I.U. Ins. Soc. Sc.	Business Management
VARDAR, Pardo Soto	1982	Paris Univ.	Political Sciences

Research Assistants:

AKAY, Hüseyin	1997	M.U. Ins. Soc. Sc.	Accounting - Finance
AKGÜN, Başak Ataman	1996	M.U. Ins. Soc. Sc.	Accounting - Finance
ASLANOĞLU, Erhan	1997	M.U. Ins. Soc. Sc.	International Economics
BAŞOL, Ali İhsan	1987	M.U. Ins. Soc. Sc.	Accounting
BAYRAMOĞLU, Hasan Ali	1996	I.U. Ins. Soc. Sc.	International Relations
BOZBORA, N. Hekimoğlu	1994	M.U. Ins. Soc. Sc.	Politics and Soc. Sci.
CAM, Tuncay	1996	M.U. Ins. Soc. Sc.	Numeric Methods
CHAMBERS, N. Reçber	1993	M.U. Ins. Soc. Sc.	Investment
ÇOKGEZEN, Murat	1996	M.U. Ins. Soc. Sc.	Economic Improvement and National Economy
DUMLU, Durmaz Tuba	1995	M.U. Ins. Soc. Sc.	Accounting-Finance
ELBER, Melha Deniz			
ERCAN, Fuat	1996	M.U. Ins. Soc. Sc.	Improvement and National Economy
ERDİL, T. Sabri	1992	M.U. Ins. Soc. Sc.	Productive Administration and Marketing
ERDOĞAN, Göksan	1993	University of East Anglia	
GÜRBÜZ, F. Gülruh Özışık	1995	M.U. Ins. Soc. Sc.	Administration and Organisation
İRGE, Filiz	1995	M.U. Ins. Soc. Sc.	International Relations
İŞERİ, E. Müge	1994	M.U. Ins. Soc. Sc.	Accounting-Finance

KÜÇÜKASLAN, Aslı	1997	M.U. Ins. Soc. Sc.	Adminstration and Organisation
KUMBETOĞLU, Belkıs	1992	M.U. Ins. Soc. Sc.	Economic Sociology
MASUN, Altan	1995	M.U. Ins. Soc. Sc.	Accounting-Finance
NECEF, Şule	1995	M.U. Ins. Soc. Sc.	Politics and Soc. Sci.
ÖKER, Figen	1994	M.U. Ins. Soc. Sc.	Accounting-Finance
ÖNALAN, Ömer	1996	M.U. Ins. Soc. Sc.	Numeric Methods
RÜZGAR, Bahattin	1992	M.U. Ins. Soc. Sc.	Numeric Methods
SALTĞLU, Vahap Burak	1998	Essex Univ.	Economics-Economety
SEVER, Ayşegül	1994	Reading Univ.	International Relations
ŞİŞMAN, Mehmet	1986	M.U. Ins. Soc. Sc.	Economic Improvement and National Economy
ÖNMEZSOY, Volkan			
ŞUALP, Mustafa Nedim	1985	City Univ. of New York	Economics
TOKAY, Ahsene Gül	1994	Univ. of London	History
TORUN, Ayşe Alev	1995	M.U. Ins. Soc. Sc.	Organizational Behavior
YILMAZ, Gülay Akgül	1996	M.U. Ins. Soc. Sc.	Finance

MARMARA ÜNİVERSİTESİ 1883

MARMARA ÜNİVERSİTESİ YAYINEVİ

MARMARA UNIVERSITY
FACULTY of ENGINEERING

Name	Year of Ph.D.	Institution	Field
Professors:			
AYTAÇ, Kılıçaslan	1978	Hacettepe Univ.	Computer Science
CEBECİ, Ömer Z.	1977	Iowa State Univ.	Materials Eng.
EYLER, Akif	1979	Harvard Univ.	Industrial Eng.
ERÇAN, Sami	1970	Illinois Ins. Tech.	Operations Research
KAR, A. Kerim	1980	M.I.T.	Mechanical Eng.
SAATÇİ, M. Ahmet	1979	Iowa State Univ.	Environment Tech.
SAYAR, Ahmet A.	1980	İstanbul Univ.	Chemical Eng.
TÜRE, Tahsin Erkan	1982	Berkeley	Operations Research
YETİŞ, Nüket	1982	Ist. Tech. Univ.	Industrial Eng.
Associate Professors:			
FIDANBOYLU, Kemal	1991	Virginia Tech.	Electronics Eng.
GÜL, Ensar	1989	Sussex Univ.	Computer Science
İNANÇ, Bülent	1995	Kyoto Univ.	Environmental Eng.
Assistant Professors:			
AKGİRAY, Ömer	190	Syracuse Univ.	Environment Tech.
ADLI, Arif	1993	Ritsumeikan Univ.	Construction
DOĞRUEL, Murat	1995	Ohio State Univ.	Electronics Eng.
GÜL, Zafer	1994	UMIST	Thermodynamics
ONBAŞIOĞLU, Esin	1993	Univ. of London	Computer Science
ÖZBAYRAK, Mustafa	1993	Loughborough Univ.	Industrial Eng.
YÜKSELEN, Mehmet A.	1994	Bosphorous Univ.	Environment Tech.

MARMARA ÜNİVERSİTESİ YAYINEVİ

FACULTY of FINE ARTS

Name	Year of Ph.D.	Institution	Field
Professors:			
ALYANAK, Şermin	1984	M.U. Ins. Soc. Sc.	Interior Design
ARCASOY, Ateş	1983	M.U. Ins. Soc. Sc.	Ceramics
ARIGİL, Sema	1983	M.U. Ins. Soc. Sc.	Painting
ARIK, Sibel	1993	M.U. Ins. Soc. Sc.	Traditional Turk. Handicraft
ASLANYÜREK, Semir	1993	M.U. Ins. Soc. Sc.	Cinema-TV
ATALAYER, Günay	1983	M.U. Ins. Soc. Sc.	Textile
ATLIHAN-SCHOETEF, Şerife	1988	M.U. Ins. Soc. Sc.	Textile
BAKLA, H. Erdinç	1983	M.U. Ins. Soc. Sc.	Ceramics
BALTA TEZCAN, Gülçin	1990	M.U. Ins. Soc. Sc.	Cinema-TV
BAŞARAN, Filiz	1983	M.U. Ins. Soc. Sc.	Painting
BAŞAN, Turgay	1988	M.U. Ins. Soc. Sc.	Textile
BAYKURT, Sinan	1983	M.U. Ins. Soc. Sc.	Graphics
BAYRAK, Ali	1983	M.U. Ins. Soc. Sc.	Ceramics
BİROL, F. İnci	1991	M.U. Ins. Soc. Sc.	Traditional Turk. Handicraft
CELBİŞ, Ümit	1984	M.U. Ins. Soc. Sc.	Interior Design
DEMİR, Ceval	1983	M.U. Ins. Soc. Sc.	Painting
DEMİREL, Fehmi	1991	M.U. Ins. Soc. Sc.	Ceramics
DEMİRSU, Zerrin	1986	M.U. Ins. Soc. Sc.	Ceramics
DERMAN, F. Çiçek	1987	M.U. Ins. Soc. Sc.	Miniature
DOĞAN, Zafer	1983	M.U. Ins. Soc. Sc.	Cinema-TV
EKŞİOĞLU, G. Doğan	1988	M.U. Ins. Soc. Sc.	Graphics
ENEZ, Nevin	1988	M.U. Ins. Soc. Sc.	Textile
ERÇETİN, Bülent	1985	M.U. Ins. Soc. Sc.	Cinema-TV
ERDOĞMUŞ, Tayfun	1988	M.U. Ins. Soc. Sc.	Painting
ERGİN, Ertuğrul	1988	M.U. Ins. Soc. Sc.	Textile
ERGÜR, Asla	1983	M.U. Ins. Soc. Sc.	Textile
ERKMEN, Nazan	1994	M.U. Ins. Soc. Sc.	Graphics
EROĞLU, R. Onur	1995	M.U. Ins. Soc. Sc.	Cinema-TV
ERTAN, Güler	1983	M.U. Ins. Soc. Sc.	Graphics
ETİ, İ. Erol	1983	M.U. Ins. Soc. Sc.	Painting
EZER, M. Hakan	1987	M.U. Ins. Soc. Sc.	Painting
GİDAN, Murteza	1993	M.U. Ins. Soc. Sc.	Painting
GANİZ, Selahattin	1983	M.U. Ins. Soc. Sc.	Graphics
GÖKÇEBAĞ, Şakir	1994	M.U. Ins. Soc. Sc.	Graphics
GÖR, Işık	1984	M.U. Ins. Soc. Sc.	Interior Design
GÜNER, Güngör	1983	M.U. Ins. Soc. Sc.	Ceramics
GÜRBÜZ, Kemal	1983	M.U. Ins. Soc. Sc.	Painting
GÜRSEL, Barbaros	1983	M.U. Ins. Soc. Sc.	Graphics
İLGAZ TEMEL, Sema	1988	M.U. Ins. Soc. Sc.	Graphics
IRMAK, Yavuz	1986	M.U. Ins. Soc. Sc.	Interior Design

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IŞINGÖR, Mümtaz	1983	M.U. Ins. Soc. Sc.	Painting
İNAN, Çiler	1984	M.U. Ins. Soc. Sc.	Interior Design
İNAN, İ. Ergin	1983	M.U. Ins. Soc. Sc.	Painting
İREZ, Feryal	1984	İ.U. Ins. Soc. Sc.	History of Art
İŞLEYEN, Emel	1995	Yıldız Tek. Univ. Ins. Sc.	Architecture
İSLİMYELİ, Balkan Naci	1983	M.U. Ins. Soc. Sc.	Painting
KAMACIOĞLU, Filiz	1987	M.U. Ins. Soc. Sc.	Education of Music
KANTARCIOĞLU, Bekir	1983	M.U. Ins. Soc. Sc.	Graphics
KARA, Devabil	1983	M.U. Ins. Soc. Sc.	Painting
KARADAĞ, Recep	1994	M.U. Ins. Soc. Sc.	Analytical Chemistry
KARAKOÇ, Fevzi	1983	M.U. Ins. Soc. Sc.	Graphics
KAYA, H. Reyhan	1983	M.U. Ins. Soc. Sc.	Textile
KOÇAN, Hüsamettin	1983	M.U. Ins. Soc. Sc.	Painting
KÖKEK, Fuat	1987	M.U. Ins. Soc. Sc.	Ceramics
KÖSEOĞLU, H. Birol	1994	M.U. Ins. Soc. Sc.	Interior Design
KUSEYRİOĞLU, A. Ümit	1983	M.U. Ins. Soc. Sc.	Painting
OKÇUOĞLU, Fatih	1988	M.U. Ins. Soc. Sc.	Textile
ÖKTEM, Tankut	1983	M.U. Ins. Soc. Sc.	Ceramics
ÖMÜR, Ozanay	1983	M.U. Ins. Soc. Sc.	Textile
ÖZAYDIN, Sabri	1986	M.U. Ins. Soc. Sc.	Cinema-TV
ÖZAYTEN, Kadri	1983	M.U. Ins. Soc. Sc.	Painting
ÖZBAY, Aykut	1983	M.U. Ins. Soc. Sc.	Graphics
ÖZBİÇER, Celal Arslan	1984	M.U. Ins. Soc. Sc.	Interior Design
ÖZEL, M. Yalçın	1984	M.U. Ins. Soc. Sc.	Interior Design
ÖZER, Mehmet	1983	M.U. Ins. Soc. Sc.	Painting
ÖZKEN, H. Ersun	1983	M.U. Ins. Soc. Sc.	Ceramics
ÖZTÜRK, Ümit	1994	M.U. Ins. Soc. Sc.	Sculpture
PİLEVNELİ, Mustafa	1983	M.U. Ins. Soc. Sc.	Painting
SAÇLIOĞLU, Mehmet Zaman	1983	M.U. Ins. Soc. Sc.	Textile
ŞAHİNOĞLU, Metin	1983	M.U. Ins. Soc. Sc.	Painting
ŞELMAN, Ayla	1983	M.U. Ins. Soc. Sc.	Textile
ŞEN, Kemal	1983	M.U. Ins. Soc. Sc.	Graphics
ŞENCAN, Türker	1986	M.U. Ins. Soc. Sc.	Interior Design
TEMİR, Şebnem Ruhsar	1986	M.U. Ins. Soc. Sc.	Textile
TEZENER, H. Eser	1986	M.U. Ins. Soc. Sc.	Interior Design
TEZONAR, N. NİLAY	1988	M.U. Ins. Soc. Sc.	Sculpture
TUNA, Cemile	1983	M.U. Ins. Soc. Sc.	Textile
ÜNAL, Hamdi	1986	M.U. Ins. Soc. Sc.	Textile
ÜNANSAL, Nurten	1983	M.U. Ins. Soc. Sc.	Interior Design
UYSAL, Ömer S.	1988	M.U. Ins. Soc. Sc.	Cinema-TV
UYUR, Ayşe	1988	M.U. Ins. Soc. Sc.	Chemistry
UZKUR, Özcan	1986	M.U. Ins. Soc. Sc.	Textile
VARDAR, Bülent	1991	M.U. Ins. Soc. Sc.	Cinema-TV
YAĞAN, Şahin Y.	1983	M.U. Ins. Soc. Sc.	Textile
YILDIZ, Cemal	1986	M.U. Ins. Soc. Sc.	Interior Design
YILDIZ, Muala	1984	M.U. Ins. Soc. Sc.	Interior Design
YILDIZ, Selahattin	1991	M.U. Ins. Soc. Sc.	Cinema-TV

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YILMABAŞAR, Jale	1983	M.U. Ins. Soc. Sc.	Ceramics
YÜCEL CELBİŞ, Nevin	1977	Sorbon Univ.	Art Aesthetics
YÜZBAŞIĞLU, Nevzat	1983	M.U. Ins. Soc. Sc.	Painting

Associate Professors:

AKSUNGUR, Ayla	1995	M.U. Ins. Soc. Sc.	Sculpture
ALTAN, Atilla			
ARSLAN, Nurdan	1996	M.U. Ins. Soc. Sc.	Ceramics
BALAKBABALAR, Salih			
BECİT, Aysel			
BEKTAŞ, Emel			
DAYAN, Nedim	1990	M.U. Ins. Soc. Sc.	Business Administration
DURAN, Gülnur			
ERDAMAR, Vedat Tayyar			
ETİ, F. Meltem			
GÖRÜNÜŞ, Alptekin			
GÜRPINAR, U. Tamer			
GÜRSES, Serdar	1996	M.U. Ins. Soc. Sc.	Ceramics
KAYNAR GÜVEN,	1988	M.U. Ins. Soc. Sc.	Textile
A. Çiğdem			
MALKOÇ, İbrahim			
MURAT, Necmi			
ÖZARBOY, Ali	1996	M.U. Ins. Soc. Sc.	Business Administration
ÖZDİLEK, H. Erkan	1996	M.U. Ins. Soc. Sc.	Graphics
SAYOĞULLARI, Sadri			
SOHTORİKOĞLU, Şennur			
SÜNER, Savaş			
ŞUNGUN, Esen	1996	M.U. Ins. Turk. St.	Atatürk's Principles and History of Turk. Renovation

Assistant Professors:

ARSLAN, Sevim	1996	M.U. Ins. Soc. Sc.	Traditional Turk. Handicraft
BEKTAŞ, Nurettin	1996	M.U. Ins. Soc. Sc.	Sculpture
BİÇER, Turgay	1994	M.U. Ins. Soc. Sc.	Business Adm.-Management
BÜLBÜL, Mustafa	1996	M.U. Ins. Soc. Sc.	Cinema-TV
ÇİLOĞLU, Hakan	1996	M.U. Ins. Soc. Sc.	Traditional Turk. Handicraft
ERGÜN, Cemil	1996	M.U. Ins. Soc. Sc.	Painting
GÖRÜR, Sevil	1995	M.U. Ins. Soc. Sc.	Graphics
KOÇ, Emin	1995	M.U. Ins. Soc. Sc.	Graphics
PAÇAL, Esma	1996	M.U. Ins. Soc. Sc.	Sculpture
ROCOP, Sidika	1996	M.U. Ins. Soc. Sc.	E.Ü.T.B.
ŞANGAR, Bülent	1996	M.U. Ins. Soc. Sc.	Painting
ÜSTÜNER, H. Şeyma	1996	M.U. Ins. Soc. Sc.	Sculpture

MARMARA ÜNİVERSİTESİ YAYINEVİ

FACULTY of LAW

Name	Year of Ph.D.	Institution	Field
Professors:			
AKAD, Mehmet	1975	I.U. F of Law	International Law
AKUNAL, Teoman	1970	I.U. F of Law	Civil Law
PAINTINGUK, Emin	1977	Univ. of Cologne F of Law	Criminal Law
AYDIN, Mehmet Akif	1981	I.U. F of Lit.	Modern History
ÇELİK, Nuri	1960	Univ. of Frankfurt F of Law	Code of Obligation
CENTEL, Fatma Nur	1983	I.U. F of Law	Criminal Law
CERRAHOĞLU, Fadlullah	1972	I.I.T.I.A.	International Law
GÜNDÜZ, Aslan	1982	I.U. Ins. Soc. Sc.	International Law
KABAALİOĞLU, Haluk	1978	I.U. F of Law	Commercial and International Law
KABOĞLU, İbrahim	1981	Limoges Univ. F of Law	Public Law
OMAĞ, Merih Kemal	1978	I.U. F of Law	Commercial and Insurance Law
ÖNEN, Ergun	1965	Univ. of Berlin	Civil Law
ÖZTEK, Selçuk	1982	Univ. of Lausanne F of Law	Private Law
SAKMAR, Ata	1968	Paris Univ. F of Law	International Law
SERİN, Vildan	1979	Ege Univ.	Economics
TAHİROĞLU, Bülent	1969	I.U. F of Law	Roman Law
ÜÇIŞIK, Fehim	1982	I.U. F of Law	Business Law
ÜÇIŞIK, Guzin	1976	Academy of Business Administration	Commercial Law
YAVUZ, Cevdet	1982	I.U. F of Law	Civil Law
YENİSEY, Feridun	1978	I.U. F of Law	Criminal Law
Associate Professors:			
BAYKAL, Ferid Hakan	1992	I.U. Ins. Soc. Sc.	Public Law
DEMİRBULAK, Selçuk	1994	I.U. Ins. Soc. Sc.	Law Finance
DİNÇKOL, Abdullah	1992	M.U. Ins. Soc. Sc.	Public Law
DİNÇKOL, Bihterin	1990	I.U. Ins. Soc. Sc.	Public Law
GÜRZUMAR, B. Osman	1991	Bern Univ. F of Law	Commercial Law
ÖKÇESİZ, Hayrettin	1983	Göttingen Univ. F of Law	Code of Obligation
SABAN, Nihal	1991	I.U. F of Law	Law of Finance
YILDIRIM, Kamil	1998	I.U. F of Law	Civil Law
YILDIRIM, Turan	1990	I.U. Ins. Soc. Sc.	Public Law

MARMARA ÜNİVERSİTESİ YAYINEVİ

Assistant Professors:

AKMAN, Mehmet	1995	M.U. Ins. Soc. Sc.	Public Law
ANTALYA, Gökhan	1991	İ.U. Ins. Soc. Sc.	Private Law
CANYÜREK, Murat	1995	M.U. Ins. Soc. Sc.	Private Law
DOĞRU, Osman	1992	İ.U. Ins. Soc. Sc.	Public Law
EKŞİ, Nuray	1995	M.U. Ins. Soc. Sc.	Private Law
GÖKÇEN, Ahmet	1993	İ.U. Ins. Soc. Sc.	Public Law
GÜRZUMAR, Aydanur	1991	Univ. of Freiburg F. of Law	Civil Law
HELVACI, Serap	1994	İ.U. Ins. Soc. Sc.	Private Law
KURAN, Selami	1991	Univ. of Zurich F. of Law	Civil Law
MEMİŞ, Emin	1986	İ.U. F. of Law	Constitutional Law
SELÇUK, Hasan	1987	İ.U. Ins. Soc. Sc.	Economics of Labour
SOMER, Mehmet	1989	İ.U. Ins. Soc. Sc.	Commercial Law
SOMER, Pervin	1994	İ.U. Ins. Soc. Sc.	Private Law
SOYDAN, Serap	1993	İ.U. Ins. Soc. Sc.	Law of Finance
YILDIRIM, Nevhis	1994	M.U. Ins. Soc. Sc.	Private Law
YILDIZ, Mustafa	1979	Gottingen Univ. F. of Law	Constitutional Law

Lecturers:

AKKUŞ, Selahattin	1996	İ.U. Ins. Soc. Sc.	Public Law
ATAERGİN, Selim	1996	M.U. Ins. Soc. Sc.	Private Law
EKİNCİ, Ekrem Buğra	1996	İ.U. Ins. Soc. Sc.	Public Law
GEDİKLİ, Fethi	1996	İ.U. Ins. Soc. Sc.	Public Law
NALBANT, Atilla	1996	M.U. Ins. Soc. Sc.	Public Law
NUHOĞLU, Ayşe	1996	M.U. Ins. Soc. Sc.	Public Law
ÖZEL, Sibel	1997	M.U. Ins. Soc. Sc.	Private Law

MARMARA ÜNİVERSİTESİ

MARMARA ÜNİVERSİTESİ YAYINEVİ

FACULTY of MEDICINE

Name	Year of Ph.D.	Institution	Field	
Professors:				
AKALIN, Nefise			Medicine	Internal Medicine Endocrinology
AKDAŞ, Atıf	1969	Hacettepe Univ.	Medicine	Urology
AKDAŞ, Ferda	1969	Hacettepe Univ.	Medicine	Odiology
AKOĞLU, Emel	1969	Hacettepe Univ.	Medicine	Internal Medicine
AKOĞLU, Tevfik		Hacettepe Univ.	Medicine	Internal Medicine
AKTAN, Özdemir	1977	Hacettepe Univ.	Medicine	Surgery
AKTAN, Sevinç	1979	Hacettepe Univ.	Medicine	Neurology
AYKAÇ, Zuhal	1977	Cerrahpaşa Univ.	Medicine	Anesthesiology
BAŞARAN, Müjdat		Hacettepe Univ.	Medicine	Pediatrics
BAYIK, Mahmut	1975	Hacettepe Univ.	Medicine	Internal Medicine
BERKMAN, Kemal	1972	İstanbul Univ.	Medicine	Pharmacology
ÇALI, Şanda		Ankara Univ.	Medicine	Public Health
ÇELİKEL, Turgay	1978	Hacettepe Univ.	Medicine	Pulmonary Diseases
CEYHAN, Nejat	1980	Hacettepe Univ.	Medicine	Gynecology and Obstetrics
ÇIRAKOĞLU, Beyazıt		METU	Letters	Biology
DAĞLI, Elif	1980	Hacettepe Univ.	Medicine	Pediatrics
DAĞLI, Tolga		Hacettepe Univ.	Medicine	Pediatric Surgery
EMERK, Kaya	1968	Ankara Univ.	Sciences	Biochemistry
ERZEN, Canan	1973	Vienna Technical Univ.	Medicine	Radiodiagnostics
GOĞÜŞ, Yılmaz		Ankara Univ.	Medicine	Anesthesiology
GÖKTEPE, Esat	1965	İstanbul Univ.	Medicine	Psychiatry
GÜRMEN, Nevzat	1961	Hacettepe Univ.	Medicine	Radiodiagnostics
GÜVEN, Osman	1978	Hacettepe Univ.	Medicine	Orthopedics
HAYRAN, Osman		Hacettepe Univ.	Medicine	Public Health
İLKER, Yaçın	1980	19 Mayıs Univ.	Medicine	Urology
İNCEOĞLU, Reşit	1977	Hacettepe Univ.	Pharmacology	Microbiology
KALAYCI, Ali Cem	1980	Hacettepe Univ.	Medicine	Internal Medicine Gastroenterology
KAN, Beki		Bosphorous Univ.	Basic Sci.	Biophysics
KAYHAN, Önder	1978	Uludağ Univ.	Medicine	Physical Therapy and Rehabilitation
KAZOKOĞLU, Haluk	1973	İstanbul Univ.	Medicine	Ophthalmology
KÜLLÜ, Sevgi		İstanbul Univ.	Medicine	Pathology
NUMANOĞLU, Ayhan		İstanbul Univ.	Medicine	Plastic and Reconstructive Surgery
OKTAY, Ahmet		Hacettepe Univ.	Medicine	Cardiology
OKTAY, Şule	1979	Hacettepe Univ.	Medicine	Pharmacology
ÖZER, Nesrin	1977	Hacettepe Univ.	Medicine	Biochemistry
PAMİR, Necmettin		I.U. Cerrahpaşa	Medicine	Neurosurgery

PEHLİVANOĞLU, Ender	1979	Ege Univ.	Medicine	Pediatrics Gastrology
PEKİN, Sakıp		İstanbul Univ.	Medicine	Gynecology and Obstetrics
POLAT, Oğuz	1983	İstanbul Univ.	Medicine	Forensic Medicine
SARIBEYOĞLU, Safa	1956	İstanbul Univ.	Medicine	Psychiatry
SAV, Aydın	1980	Ege Univ.	Medicine	Pathology
ŞEHİTOĞLU, Mehmet Ali	1973	Hacettepe Univ.	Medicine	ENT
SÖYLETİR, Güner	1977	Hacettepe Univ.	Medicine	Microbiology
TAGA, Yavuz	1977	Hacettepe Univ.	Medicine	Biochemistry
TÖZÜN, Nurdan	1974	İstanbul Univ.	Medicine	Internal Medicine Gastroenterology
TURKAN, Seclat		I.U. Cerrahpaşa	Medicine	Radiology
ULUSOY, Nefise	1973	I.U. Cerrahpaşa	Medicine	Internal Medicine Gastroenterology
ÜNERİ, Cüneyt	1979	Hacettepe Univ.	Medicine	ENT
US, Önder	1978	İstanbul Univ.	Medicine	Neurology
YALÇIN, Süha	1978	Bosphorous Univ.	Basic Science	Biochemistry
YALIN, Rıfat		Ankara Univ.	Medicine	Surgery

Associate Professors:

AHISKALI, Rengin	1984	İstanbul Univ.	Medicine	Pathology
AKGÜN, Serdar	1987	Hacettepe Univ.	Medicine	Heart Surgery
AKSOY, Mustafa	1983	I.U. Cerrahpaşa	Medicine	Forensic Medicine
ALPER, Gülay	1982	Hacettepe Univ.	Medicine	Pediatrics
AKYÜZ, Gülseren	1982	I.U. Cerrahpaşa	Science	Physiotherapy
ALİCAN, İnci	1984	Bosphorous Univ.	Science	Physiology
ARBAK, Serap	1984	Bosphorous Univ.	Science	Histology
ARIBAL, Mustafa	1986	Hacettepe Univ.	Medicine	Radiodiagnostics
ARISAN, Erdal	1972	İstanbul Univ.	Science	Anatomy
BABACAN, Funda	1976	İstanbul Univ.	Medicine	Microbiology
BAKIR, Mustafa	1988	İstanbul Univ.	Medicine	Pediatrics
BARLAN, Işıl	1983	I.U. Cerrahpaşa	Medicine	Pediatrics
BATMAN, Çağlar	1982	Hacettepe Univ.	Medicine	E.N.T.
BAVBEK, Taylun	1983	İstanbul Univ.	Medicine	Ophthalmology
BERKEM, Meral	1977	Hacettepe Univ.	Medicine	Child Psychiatry
BİLSEL, Serpil	1975	Bosphorous Univ.	Chemistry	Chemistry
BİREN, Tuğrul	1985	Ankara Univ.	Medicine	Pulmonary
CANPOLAT, Cengiz		İstanbul Univ.	Medicine	Pediatrics
ÇAVDAR, Safiye	1984	Hacettepe Univ.	Science	Anatomy
CEYHAN, Berrin	1982	Hacettepe Univ.	Medicine	Pulmonary
DİRESKENELİ, Haner	1986	İstanbul Univ.	Medicine	Internal Medicine
DURMUŞOĞLU, Fatih	1981	Bursa Univ.	Medicine	Gynecology and Obstetrics
ERENUS, Mithat	1982	19 Mayıs Univ.	Medicine	Gynecology and Obstetrics
ESMENLİ, Tanıl	1980	Hacettepe Univ.	Medicine	Orthopedics
GÖRKEY, Şefik	1985	İstanbul Univ.	Dentistry	Deontology
GÜRBÜZ, Oya	1980	Ankara Univ.	Medicine	Dermatology
GÜVEN, Zeynep	1985	I.U. Cerrahpaşa	Science	Physiotherapy
İNANICI, Akif	1987	I.U. Cerrahpaşa	Medicine	Forensic Medicine

MARMARA ÜNİVERSİTESİ YAYINEVİ

OKAR, İmer	1980	İstanbul Univ.	Medicine	Histology
ONAT, Filiz	1985	İ.U. Cerrahpaşa	Medicine	Pharmacology
ÖĞÜT, Süha	1980	Ege Univ.	Medicine	Ophthalmology
ÖZ, Hami		İstanbul Univ.		
ÖZEK, Eren	1982	İstanbul Univ.	Medicine	Pediatrics Necnatology
ÖZEK, Memet	1981	İstanbul Univ.	Medicine	Neurosurgery
ÖZENER, Çetin	1977	Hacettepe Univ.	Medicine	Internal Medicine
ÖZER, Ayşe		METU	Science	Biology
ÖZKUTLU, Rasim	1985	İ.U. Cerrahpaşa	Science	Physiology
SAYHAN, Osman Ziya	1979	İstanbul Univ.	Science	Biophysics
ŞAHİN, Şükran	1975	İstanbul Univ.	Medicine	Internal Medicine
ŞAN, Tangül	1981	İstanbul Univ.	Science	Histology
TEMEL, Salih	1981	Ege Univ.	Medicine	Ophthalmology
TUĞLULAR, Tülin	1981	Ankara Univ.	Medicine	Internal Medicine
Türken, Levent	1984	Uludağ Univ.	Medicine	Ophthalmology
TUROĞLU, Turgut Halil	1983	İstanbul Univ.	Medicine	Nuclear Medicine
TUTKUN, Alper	1984	İstanbul Univ.	Medicine	E.N.T.
ÜLKER, Süreyya		Ankara Univ.	Medicine	Pathology
YALÇIN, Selim	1987	İstanbul Univ.	Medicine	Orthopedics
YALIN, Aymelek	1980	Hacettepe Univ.	Science	Anatomy
YAZGAN, Yanki	1983	Ege Univ.	Medicine	Psychiatry
YEĞEN, Berrak	1983	Ege Univ.	Medicine	Physiology
YEĞEN, Cumhur	1983	Ege Univ.	Medicine	Surgery
YÖNEY, Hakan		İstanbul Univ.	Medicine	Psychiatry
YÜKSEL, Mehtap		Hacettepe Univ.	Science	Anatomy
YÜKSEL, Mustafa	1977	Ankara Univ.	Medicine	Pulmonary Diseases

Assistant Professors:

ARIBAL, Ufuk	1983	Hacettepe Univ.	Medicine	E.N.T.
ARZIK, Cevdet	1980	Hacettepe Univ.	Medicine	Psychiatry
AYKUT, Canan		Hacettepe Univ.	Medicine	Neurology
BAYKAN, Nigar		İ.U. Cerrahpaşa	Science	Anaesthesiology
BAYRAMİÇLİ, Mehmet	1985	İ.U. Cerrahpaşa	Medicine	Plastic and Reconstructive Surgery
ÇAYMAZ, Oğuz Hüseyin	1985	Hacettepe Univ.	Medicine	Cardiology
CEBECİ, Dilşad	1988	İstanbul Univ.	Medicine	Public Health
ÇELİKEL, Çiğdem	1984	İstanbul Univ.	Medicine	Pathology
ÇELEBİLER, Ozhan	1982	İstanbul Univ.	Medicine	Plastic and Reconstructive Surgery
ÇERİKÇİOĞLU, Nilgün	1977	Hacettepe Univ.	Science	Microbiology
EKİNCİ, Gazanfer	1991	Marmara Univ.	Medicine	Radiodiagnostics
ELMACI, İlhan	1986	Ankara Univ.	Medicine	Neurosurgery
ERDİL, Tanju	1991	Hacettepe Univ.	Medicine	Nuclear Medicine
ERGUN Tülin	1984	Ege Univ.	Medicine	Dermatology
ESKİTÜR, Ayşegül	1988	Ankara Univ.	Medicine	Microbiology
ETİ, Zeynep	1987	Ankara Univ.	Medicine	Anaesthesiology
FAK, Serdar	1987	İstanbul Univ.	Medicine	Cardiology

GARİP, Ayşe	1976	METU	Science	Biophysics
GENÇEL, Hande	1989	Hacettepe Univ.	Medicine	Public Health
GÜLEN, Dumrul	1985	İstanbul Univ.	Science	Microbiology
HAKLAR, Goncagül	1989	İstanbul Univ.	Medicine	Biochemistry
İSKİT, Serdar		İ.U. Cerrahpaşa	Medicine	Pediatric Surgery
KALAÇA, Çağrı		İstanbul Univ.	Medicine	Family Medicine
KARAHAN, Mustafa	1985	Hacettepe Univ.	Medicine	Orthopedics
KODALLI, Mehmet Nihat	1985	Ankara Univ.	Medicine	Radiodiagnostics
KÜLEKÇİ, Sezer	1983	Hacettepe Univ.	Medicine	E.N.T.
LAWRANCE, Roger	1982		Medicine	Internal Medicine
MÜLAZIMOĞLU, Lutfiye	1985	İstanbul Univ.	Medicine	Internal Medicine
ÖRS, Rahmi			Medicine	Pediatrics
ÖZARAS, Nadire	1989	İstanbul Univ.	Medicine	Physiotherapy
ÖZGÜVEN, Emine	1987	Akdeniz Univ.	Medicine	Pediatrics
ŞENGÖZ, Meriç Kazım			Medicine	Radiology
ŞİRİKÇİ, Önder	1986	Çukurova Univ.	Medicine	Biochemistry
TANRIDAĞ, Tulin	1980	Ankara Univ.	Medicine	Neurology
TARCAN, Tufan	1991	İ.U. Cerrahpaşa	Medicine	Urology
TETİK, Cihangir	1984	19 Mayıs Univ.	Medicine	Orthopedics
TEZCAN, Hakan	1987	Ege Univ.	Medicine	Internal Medicine
TÜNEY, Davut		Uludağ Univ.	Medicine	Radiodiagnostics
YÜCELTEN, Deniz	1989	Marmara Univ.	Medicine	Dermatology

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FACULTY of PHARMACY

Name	Year of Ph.D.	Institution	Field
Professors:			
AKBUĞA, Jülide	1977	I.U. F of Pharmacy	Pharmaceutical Tech.
ÇEVİKBAŞ, Adile	1973	I.U. F of Sc.	Microbiology
DORTUNÇ, Betül	1978	I.U. F of Pharmacy	Pharmaceutical Tech.
DÖLEN, Emre	1972	I.U. F of Chem.	Inorganic Chemistry
DÜLGER, Gül	1969	H.U. Ins. Pharmacy & Tox.	Pharmacology
ERSOY, Ömer	1975	I.U. F of Pharm.	Toxicology
GÜRSOY, Ayla	1966	I.U. Sch. of Pharmacy	Galenics
İZZETTİN, Fikret Vehbi	1960	Nebraska Univ.	Clinical Pharmacology
ROLLAS, Sevim	1974	I.U. F of Pharmacy	Pharmaceutical Chemistry
TUZLACI, Erdan	1975	I.U. F of Pharmacy	Pharmaceutical Botany
UYSAL, Meral Keyer	1978	I.U. Medicine	Pharmacology
YARS, Ünal	1983	I.U. Ins. Chem.	Pharmaceutical Chemistry
YARDIMCI, K. Turay	1970	Connecticut Univ.	Biochemistry
Associate Professors:			
ALTINER, Dehen	1987	I.U. Ins. Sc.	Biochemistry
GÜRKAN, Elçin	1970	I.U. F of Pharmacy	Pharmacognosy
TÜRKOĞLU, Murat	1991	Cincinnati Univ. F of Pharm.	Industrial Pharmacy
URAS, Fikriye	1991	M.U. Ins. Health Sc.	Biochemistry
ÜLGEN, Mert	1992	London Univ. King's College	Biopharmacy
PEKİN, Mürşit	1987	M.U. Ins. Sc.	Analytical Chemistry
YURDUN, Türkan	1984	I.U. Ins. Health Sc.	Pharmaceutical Toxicology
Assistant Professors:			
ARICOĞLU, Feyza	1993	I.U. Ins. Health Sc.	Pharmacology
CÜCÜ, Ayşen	1995	M.U. Ins. Health Sc.	Analy. - Chem.
DUMAN, Gülengül	1993	A.U. Ins. Health Sc.	Ph. Technologies
DOĞAN, Neşe	1994	M.U. Ins. Health Sc.	Pharmacological Che
DEMİR, Hülya	1995	M.U. Ins. Health Sc.	Analy. - Chem.
GÖKER, Bahar	1992	M.U. Ins. Health Sc.	Biochemistry
ŞATIROĞLU, Handan İ	1993	Cumhuriyet Univ. Ins. Health Sc.	Physiology
OMURAG, Gülden Zehra	1992	I.U. Ins. Health Sc.	Pharmaceutical Toxicology
SOYOĞLU, Ömran	1994	M.U. İns. Health Sc.	Microbiology
KABASAKAL, Levent	1995	M.U. Ins. Health Sc.	Pharmacology
TETİK, Emel Eren	1995	METU Ins. Sc.	Biology
TEZİÇ, Gülseren	1979	I.U. Cerrahpaşa	Anatomy
UĞUR, Musa Ş.	1987	I.U. Ins. Health Sc.	Histology
YALÇIN, Güler	1991	M.U. Ins. Sc.	Analytical Chem.

Lecturers:

BAYRAKTAR, Ersin	1985	I.U. Ins. Sc.	Physics
GÜLERMAN, N. Nehir	1995	M.U. Ins. Health Sc.	Pharmaceutical Chem.
OBA, Rabia	1996	M.U. Ins. Health Sc.	Biochemistry
ŞENER, Azize Yaman	1995	M.U. Ins. Health Sc.	Biochemistry
YARS, Nur	1994	M.U. Ins. Health Sc.	Analytical Chem.
YURTSEVER, Ertuğrul	1991	M.U. Ins. Health Sc.	Biochemistry

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FACULTY of TECHNICAL EDUCATION

Name	Year of Ph.D.	Institution	Field
Professors:			
ALSAN, Sezgin	1972	Grenoble Univ.	Electronics
BAŞER, İnci	1986	I.U. F of Eng.	Chemistry
CAN, Burhanettin	1984	İTU F of Eng.	Electronics
ÇAVUŞOĞLU, Yüksel	1983	İTU	Mechanics
DOĞRUER, I. Metee	1980	I.U.	Applied Economics
GÖK, İhsan	1965	Wales Univ.	Electronics
GÜNEY, İrfan	1987	M.U.	Electricity
IŞIKAN, Osman	1986	Glasgow Univ.	Thermodynamics
KOZ, Mehmet	1977	İTÜ F of Metal.	Metallurgy
TEZCAN, İnci	1972	İTÜ Chemistry-Met. F.	Chemistry
YAZICIOĞLU, Osman	1980	A.U.	Mechanical Drawing
YEREBAKAN, Metin	1978	Ege Univ.	Mechanics
YÜKLER, İrfan	1983	İTÜ F of Metal.	Metallurgy
Associate Professors:			
AKALIN, Mehmet	1992	Bolton Institute	Textile
ERBARUT, Erkan	1986	METU	Physics
İNANICI, Yusuf	1983	I.U.	Chemistry
ÖNER, Erhan	1989	Leeds Univ.	Chemistry
ÖZTÜRK, F. Semra	1989	M.U.	Electrical Education
ŞİMŞEK, Muhittin	1992	M.U.	Mechanics Education
ÜNAL, Semra	–	–	–
UZUNÇARŞILI, Ülkü	1988	I.U.	Staff Education
Assistant Professors:			
APAYDIN, Hasan	1988	M.U.	Production Methods & Marketing
BABA, Fevzi A.	1995	M.U.	Electronical Ed.
BAYDUZ, Nigar	1986	M.U.	Textile Educ.
BEYTUT, Hüseyin N.	1995	M.U.	Printing Educ.
BİNİCİ, İsmail	1993	M.U.	Metallurgy Educ.
ÇAMURCU, Ali Yılmaz	1996	M.U.	Electronics Educ.
CANOĞLU, Suat	1995	M.U.	Textile Educ.
ÇATALGÖL, Zarif	1993	M.U.	Welding Educ.
DEMİR, İsmail	1993	M.U.	Electronics - Computer
EKREN, Nazmi	1996	I.U.	Numerical Methods
ERCAN, Emine	1994	Ege Univ.	Textile
ERDEN, Çetin M.	1995	M.U.	Printing Educ.
GÜNGÖR, Ferhat	1994	I.U.	Production Methods
IŞGÖREN, Erkan	1993	M.U.	Textile

KALAYCI, Tahsin	1994	M.U.	Lathing Tech. Work Safety
KAYA, A. Ali	1993	Oxford Univ.	Materials Science
KENTLİ, Fevzi	1993	M.U.	Electrics-Electronics
KILIÇARSLAN, Şemsettin	1989	M.U.	Electronics - Computer
KURT, Mustafa	1993	M.U.	Mechanical Educ.
MERAL, Mustafa	1993	M.U.	Electronics Educ.
OKTAV, Mehmet	1994	M.U.	Printing Educ.
ORAN, Altan	–	–	–
ÖZMEN, Nihat	1990	M.U.	French Lang. and Lit.
SALMAN, Serdar	1994	Yıldız Tech. Univ.	Materials Scienes Educ.
SAMUR, Ramazan	1996	M.U.	Metal Educ.
TUĞAL, Vatan	1985	Yıldız Tech. Univ.	Mechanical Engineering
ÜNAL, Hayri	1992	M.U.	Printing Educ.
VAYVAY, Özgül	1985	M.U.	Electrics Educ.

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INSTITUTE of SOCIAL SCIENCES

Name	Year of Ph.D.	Institution	Field
Professors:			
İŞCAN, Orhan	1981	Vienna Econ. Univ.	Business Administration
Associate Professors:			
AKMEL, Jale	1990	I.U. Ins. Soc. Sc.	Service Marketing
DAVUTOĞLU, Ahmet	1990	Bosphorous Univ.	Polit. Sc. & Inter. Relations
DEMİR, Gülten	1987	Anadolu Univ. Ins. Soc. Sc.	Economics
Assistant Professors:			
AYBOĞA, Hanifi	1991	M.U. Ins. Soc. Sc.	Accounting-Finance
DEMİRCİ, Selahattin	1989	M.U.	Public Administration
DUMANOĞLU, Sezai	1995	M.U. Ins. Soc. Sc.	Accounting-Finance
ERGÜY, Nuray	1996	Camel Univ.	Finance
ERSOY, Aylen	1993	M.U. Ins. Soc. Sc.	Accounting-Finance
GÜREL, Nalan	1988	I.U. Ins. Soc. Sc.	Money-Banking
ŞAKRAK, Münir	1987	M.U. Ins. Soc. Sc.	Accounting
SEZER, Fusun	1987	M.U. Ins. Soc. Sc.	Marketing
UNUTKAN, Özcan	1994	M.U. Ins. Soc. Sc.	Accounting-Finance
YALÇIN, Asuman	1987	M.U. Ins. Soc. Sc.	Marketing
ZEYTİNĞLU, Emin	1987	I.U. Ins. Soc. Sc.	Law
Lecturers:			
SOYAK, Münevver	1995	M.U. Ins. Soc. Sc.	Economics
TOPRAKSEVEN, Oktay	1994	M.U. Ins. Soc. Sc.	Journalism and Public Relations

SCHOOL of HEALTH RELATED PROFESSIONS

Name	Year of Ph.D.	Institution	Field
Associate Professors:			
AKESİ, Sevcan	1990	M.U. Ins. H. Rel. Prof.	Prostehic Dental Care
YENİCE, Sedef	1992	Dokuz Eylül Univ. Ins. H. Rel. Prof.	Biochemistry
Assistant Professors:			
ÇAKALAĞAOĞLU, Fulya	1994	Dokuz Eylül Univ. Medical Faculty	Pathology
GÜLEN, Dumrul	1992	M.U. Ins. H. Rel. Prof.	Microbiology
İLBAY, Göktürk	1990	M.U. Ins. H. Rel. Prof.	Prosthetic Dental Care
	Marmara Univ.	Ins. H. Rel. Prof.	
SÖKMEN, Nihal	1993	Ankara Univ. Science	Inorganic Chemistry
Lecturers:			
ERDOĞN, Nursel	1994	M.U. Ins. H. Rel. Prof.	Nursing Administration
ZEYTUN, Gazi	1990	M.U. Ins. H. Rel. Prof.	Prosthetic Dental Care

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SCHOOL OF NURSING

Name	Year of Ph.D.	Institution	Field
Professors:			
EKİZLER, Hediye	1985 Ist. Univ.	Faculty of Medicine	Gynecology Obstetrics
Associate Professors:			
AKSAYAN, Seçil	1990	I.U. Ins. Health Sc.	Nursing
CEMEE, Güler	1991	H.U. Ins. Health Sc.	Nursing
ÖZALTIN, Gülten	1980	H.U. Ins. Helath Sc.	Psychiatry
KÖMÜRCÜ, Nuran	1985	H.U. Ins. Helath Sc.	Gynecology Obstetrics
PEK, Hatice	1993	I.U. Ins. Health Sc.	Nursing
SABUNCU, Necmiye	1981	I.U. Ins. Health Sc.	Nursing
ŞELİMEN, Deniz	1986	I.U. Ins. Health Sc.	Surgery
Assistant Professors:			
ALPAR, ECEVİT, Şule	1986	I.U. Ins. Health Sc.	Pulmonary Diseases
ASLAN, ETİ, Fatma	1992	I.U. Ins. Health Sc.	Nursing
BAHÇECİK, Nelise	1993	I.U. Ins. Health Sc.	Nursing
IŞIL, Özlem	1994	I.U. Ins. Health Sc.	Nursing
OLGUN, Nermin	1994	I.U. Ins. Health Sc.	Nursing
PINAR, Rukiye	1995	I.U. Ins. Health Sc.	Internal Medicine
TEKİN, Nurdan	1995	I.U. Ins. Health Sc.	Nursing
YAZICI, Sema	1995	I.U. Ins. Health Sc.	Nursing
YILDIRIM, Zerrin	1996	I.U. Ins. Health Sc.	Nursing
YILDIZ, Ayşe	1994	I.U. Ins. Health Sc.	Nursing
Lecturers:			
ÇINAR, Sezgi	1996	M.U. Ins. Health Sc.	Nephrology Nursing

SCHOOL of PHYSICAL EDUCATION and SPORTS

Name	Year of Ph.D.	Institution	Field
Professors:			
AYKURT, Bilge	1975	Atatürk Univ. Medicine	Physical Ther. & Rehabilitation
EREN, Zemin	1972	Ankara Univ. Medicine	Internal Medicine
Associate Professors:			
KASAP, Hasan	1989	M.U. Ins. Health Sc.	Physical Educ. & Sports
İKİZLER, Hüseyin Can	1992	M.U. Ins. Health Sc.	Physical Educ. & Sports
PEKER, İsmail	1982	I.U. F of Chem.	Chemistry
İNAL, Serap	1983	H.U. Ins. Health Sc.	Physical Ther. & Rehabilitation
ÜNERİ, Alev	1984	H.U. Medicine Health	E.N.T.
MENGÜTAY, Sami	1988	M.U. Ins. Soc. Sc.	Physical Educ. & Sports
BAKIR, Müslim	1990	İ.U. Ins. Soc. Sc.	Tourism
SİRMEN, Bilsen	1973	H.U. Ins. Health Sc.	Physical Ther. & Rehabilitation
Assistant Professors:			
ATALAY, Ayşe	1992	M.U. Ins. Soc. Sc.	Politics & Soc. Sc.
AYÇA, İnci Banu	1993	M.U. Ins. Health Sc.	Biochemistry
SERARSLAN, Zahit	1990	M.U. Ins. Soc. Sc.	Marketing
ERALP, Ömer Fikri	1989	M.U. Ins. Health Sc.	Physical Educ. & Sports
CEBECİ, Dilaver	1989	I.U. Ins. Soc. Sc.	Social Struc. & Soc. Change
AĞIRBAŞ, İlhan	1995	Vienna Univ.	Athletism
KIZILET, Ali	1991	M.U. Ins. Health Sc.	Physical Educ. & Sports
ÜNAL, Şinasi	1992	M.U. Ins. Health Sc.	Physical Educ. & Sports
BOZDOĞAN, Ahmet	1993	M.U. Ins. Health Sc.	Physical Educ. & Sports
SUNA, Nalan	1991	M.U. Ins. Health Sc.	Physical Educ. & Sports
ULUĞ, İhan Odabaş	1991	M.U. Ins. Health Sc.	Physical Educ. & Sports
TERZİOĞLU, Ahmet	1982	İ.U. Ins. Soc. Sc.	Social Struc. & Soc. Change
PEHLİVAN, Ayseel	1991	M.U. Ins. Health Sc.	Physical Educ. & Sports
PAŞAOĞLU, Abdullah	1993	M.U. Ins. Health Sc.	Physical Educ. & Sports
Lecturers:			
COŞAN, Fehim	1996	Bulgana	
ÇOTUK, Hasan Birol	1996	German Aachan Medical Sch.	Medicine
DEMİR, Ali	1996	M.U. Ins. Health Sc.	Physical Educ. & Sports
ERVERDİ, Fatma Suna Feryal	1997	M.U. Ins. Health Sc.	Physical Educ. & Sports

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KÖKSAL, Hayal	1997	Gaziantep Univ. Ins. Soc. Sc.	Education Sciences
ÖZATA, Erol	1991	M.U. Ins. Health Sc.	Physical Educ. & Sports
ÖZKAN, Zülfikar	1990	I.U. Ins. Soc. Sc.	Social Struc. & Soc. Change
TATAR, Yaşar	1995	M.U. Ins. Health Sc.	Physical Educ. & Sports

Research Assistants

PINAR, Salih	1996	M.U. Ins. Health Sc.	Physical Educ. & Sports
YAVUZ, Bilur	1998	M.U. Ins. Health Sc.	Physical Educ. & Sports

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SCHOOL of TECHNICAL STUDIES

Name	Year of Ph.D.	Institution	Field
Professors:			
SOYLU, Meral	1988	I.U. Ins. Marine Sc. & Ad.	Marine Biology
Associate Professors:			
SOYLU, Erhan	1990	I.U. Ins. Marine Sc. & Ad.	Marine Biology
ULUSMAN, Leyla	1987	Gazi Univ. Ins. Soc. Sc.	Handicraft-Jewelry
YARABAŞI, Şebnem	1985	Mimar Sinan Univ.	Textile Design
Assistant Professors:			
TEMİZ, İsmail	1996	M.U. Ins. Sc.	Electrical Education
ÖZBEK, İbrahim	1996	Yıldız Tech. Univ. Ins. Sc.	Electronics

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KEY to the ABBREVIATIONS

UNIVERSITIES

A.U.	Ankara University
B.U.	Bosphorous University
H.U.	Hacettepe University
I.U.	Istanbul University
I.T.I.A.	Academy of Economics and Commercial Sciences
I.T.U.	Istanbu ITechnical University
K.T. Univ.	Blacksea Technical University
METU	Middle East Technical University

INSTITUTES

Ins. Chem.	Institute of Chemistry
Ins. H. Rel. Prof.	Institute of Health Related Professions
Ins. Health Sc.	Institute of Health Sciences
Ins. Mar. & G.	Institute of Marine Studies and Geography
Ins. Pharm. & Tox.	Institute of Pharmacology and Toxicology
Ins. Sc.	Institute for Graduate Studies in Science and Technology
Ins. Soc. Sc.	Institute of Social Sciences
Ins. Turk. St.	Institute of Turkish and Turkic Studies

FACULTIES

F. of Arch.	Faculty of Architecture
F. of BA.	Faculty of Business Administration
F. of Bas. Sc.	Faculty of Basic Sciences
Cer. Med. Sch.	Cerrahpaşa Medical School
F. of Chem.	Faculty of Chemistry
F. of Den.	Faculty of Dentistry
F. of Div.	Faculty of Divinity
F. of Ec.	Faculty of Economics
F. of Ec. & Ad. Sc.	Faculty of Economic and Administrative Sciences
F. of Ed.	Faculty of Education
F. of Eng.	Faculty of Eengineering
Home Ec.	Home Economics
I.U. Med. Sch.	I.U. Çapa Medical School
F. of Lit.	Faculty of Literature
F. of Lit. & G.	Faculty of Literature and Geography
F. of Metal.	Faculty of Metallurgy
F. of Phar.	Faculty of Pharmacy
F. of Pol. Sc.	Faculty of Political Sciences
F. of S. & A. Sc.	Faculty of Social and Administrative Sciences
F. of Sc.	Faculty of Science

