The Institute of Science and Technology offers graduate studies leading to the degrees of Master of Science, Doctor of Philosophy and Proficiency in Art, more than 120 years, in the programs of Architecture, Interior Architecture, Industrial Design, Urban and Regional Planning and Structural Engineering (in English) of Architectural Faculty; the programs of Mathematics, Statistics and Physics of the Faculty of Science and Letters; A program of Computer-Aided Art and Design of Enformatics Department. In addition to theoretical and applied courses, the programs in the Institute are supported by conferences, seminars and scientific activities. The primary objective of the Institute is to make significant contributions to Turkey’s educational and industrial development as well as to foster research.

This catalog provides information about the programs, course contents and teaching staff for the students who are willing to study in our university. I would like to thank Assoc. Prof. Dr. Sema ERGÖNÜL, deputy director of the Institute, for her contribution in the preparation of this catalog.

Prof. Dr. Güzin KONUK
Director of Institute
The Institute of Science and Technology offers graduate studies leading to the degrees of Master of Science, Doctor of Philosophy and Proficiency in Art, more than 120 years, in the programs of Architecture, Interior Architecture, Industrial Design, Urban and Regional Planning and Structural Engineering (in English) of Architectural Faculty; the programs of Mathematics, Statistics and Physics of the Faculty of Science and Letters; A program of Computer-Aided Art and Design of Enformatics Department. In addition to theoretical and applied courses, the programs in the Institute are supported by conferences, seminars and scientific activities. The primary objective of the Institute is to train creative specialists to make significant contributions to Turkey’s educational and industrial development as well as to foster research.
**Architectural theory and Design Methodologies Graduate Studies aim to investigate advanced design theory and methodologies and reach scientific conclusions. Studies focus on the architectural product as a design fact and discuss design criteria. Various types of buildings are examined in this context. Continuity in architecture and environment are among the major consideration topics.**

**TEACHING STAFF**

**FULL TIME**

**Prof. Nursel ONAT**  
Bachelor/Master: D.G.S.A 1965.

**Asst. Prof. Dr. N. Oğuz ÖZER**  
Master: MSÜ, 1985; PhD: MSÜ, 1996.

**Asst. Prof. Dr. F. Gülşen GÜLMEZ**  
Master: MSÜ, 1985; PhD: MSÜ, 1996.

**Asst. Prof. Dr. Kayahan TÜRKANTOZ**  

**Asst. Prof. Dr. Figen KAFESÇİOĞLU**  

**Asst. Prof. Dr. Kerem ÖZEL**  
Asst. Prof. Dr. Kaya SÖNMEZLER

Asst. Prof. Dr. Derin ÖNCEL
Bachelor: MSÜ, 1989; Master: MSÜ, 1992; PhD: Université Paris-8, 2002.

PART TIME

Prof. Esad SUHER
Bachelor/Master: D.G.S.A. 1957.

Prof. Mete ÜNAL
Bachelor/Master: D.G.S.A. 1960.

Prof. Dr. İbrahim ATAC
### MASTER PROGRAMME

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### ELECTIVE COURSES

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<td>The Concept of Space in Building Design</td>
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<td>Topography As a Design Factor in Architecture</td>
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<td>Factors Forming the Identity of the Urban and Architectural Spaces: Examples from the Eastern Mediterranaen</td>
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GRADUATE COURSES

REQUIRED COURSES

BB 500 SEMINAR
2 hrs/week, theory, non-credit, 5 ECTS credits
Objective / Contents: The seminar consists of the visual exposition and explanation about buildings that have various functions. They are organized and given by the program specialists interactively.
Pre-requisite: -
Assessment Methods: written exam / assignment
Teaching Staff: Prof. Mete ÜNAL

BB 591 PROJECT
8 hrs/week, Practice, 4 credits, 10 ECTS credits
Objective / Contents: Designing of an architectural project on the student’s research field.
Pre-requisite: -
Assessment Methods: submission of a project / assignment
Recommended Resources: Publications about design and Architecture.
Teaching Staff: Prof. Nursel ONAT, Prof. Mete ÜNAL, Prof. Esad SUHER, Asst. Prof. Dr. Gülşen GÜLMEZ, Asst. Prof. Dr. Oğuz ÖZER

ELECTIVE COURSES

BB 503 RESIDENTIAL BUILDINGS
2 hrs/week, theory, 2 credits, 5 ECTS credits
Objective / Contents: Introduction of the historical development of rural and urban housing. Investigation of housing typology and residential development through the industrialization process. Analysis of functional requirements and planning principles of residential buildings.
Pre-requisite: -
Assessment Methods: written exam/assignment
Recommended Resources: Publications about design and Architecture.
Teaching Staff: Prof. Esad SUHER

BB 504 PLANNING PRINCIPLES OF OFFICE BUILDINGS
2 hrs/week, theory, 2 credits, 5 ECTS credits
Pre-requisite: -
Assessment Methods: written exam/assignment
Recommended Resources:
Teaching Staff: Prof. Nursel ONAT

BB 505 EDUCATION BUILDINGS
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: Classification of education buildings and introduction of their planning principles. Investigation of various types of education buildings according to their programming principles.

Pre-requisite: -
Assessment Methods: written exam/assignment

BB 506 DORMITORY BUILDINGS
2 hrs/week, theory, 2 credits, 5 ECTS credits


Pre-requisite: -
Assessment Methods: written exam/assignment

Teaching Staff: Prof. Mete ÜNAL

BB 507 TOURISM BUILDINGS
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: Definition and classification of tourism buildings: Giving information about different programs according to requirements, determination of general planning principles and factors, researching and interpreting the examples.

Pre-requisite: -
Assessment Methods: written exam/assignment

Teaching Staff: Asst. Prof. Dr. Kerem ÖZEL

BB 508 DETERMINATION OF THE TYPOLOGY OF HOUSING ACCORDING TO REQUIREMENTS OF INHABITANTS
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: Analysis of housing stock according to quality and quantity. The relationship between the housing stock and demography. Housing during the transformation process from the rural life to urban life. The relations of infrastructure of the house and the building site. The role of inhabitant in housing typology. (Public survey, various resident types, evaluation of data for planning).

Pre-requisite: -
Assessment Methods: written exam/assignment

Recommended Resources:
Teaching Staff: Prof. Esad SUHER

BB 519 LAND AND SEA TRANSPORTATION BUILDINGS
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: Investigation of planning and design principles of land and sea transportation buildings in urban context: Design principles of land and sea transportation buildings. Designating the situation of highway transportation in general transportation system. A brief history and development of terminals. The
relation between city population and capacity of terminal buildings. The location of bus stations in urban context. Estimation of demands in terminal design. The design principles of bus terminals. The importance of sea terminals in urban transportation. The integration of sea transportation and other transportation systems. The relation of sea transportation and environmental aesthetic. The design principles of sea transportation buildings.

**Pre-requisite:**
**Assessment Methods:** written exam/assignment
**Recommended Resources:**
**Teaching Staff:** Prof. Esad SUHER

**BB 520 THE CONCEPT OF SPACE IN BUILDING DESIGN**
2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The concept of space is investigated in different qualities.

**Pre-requisite:**
**Assessment Methods:** written exam/assignment

**BB 523 COMPUTER-AIDED DESIGN**
2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The invention of computers, evolution of computers, components of computers, input and output units, precautions about computer software.

**Pre-requisite:**
**Assessment Methods:** written exam/assignment
**Recommended Resources:**
**Teaching Staff:** Prof. Dr. İbrahim ATAÇ

**BB 524 TOPOGRAPHY AS A DESIGN FACTOR IN ARCHITECTURE**
2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Investigation of topographic data as a design factor.

**Pre-requisite:**
**Assessment Methods:** written exam/assignment

**BB 527 CONTINUITY IN ARCHITECTURE**
2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Investigation of
continuities, interruptions and transformations in the life of architectural object: The continuity of planimetric schemes, the continuity of structural values.

**Pre-requisite:** -

**Assessment Methods:** written exam/assignment

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Dr. Oğuz ÖZER

**BB 532 FACTORS FORMING THE IDENTITY OF THE URBAN AND ARCHITECTURAL SPACES: EXAMPLES FROM THE EASTERN MEDITERRANEAN**

2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The discussion around the notion of “Identity of the space”. A general look to the development of the urban and architectural spaces (to the formation of their identities) in the eastern Mediterranean region. Factors forming the identity of the urban space: Geographic factors, factors linked to the mankind, the “lifestyle” as a result of all these factors will be examined based on concrete examples.

**Pre-requisite:** -

**Assessment Methods:** written exam/assignment

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Dr. Kayahan TÜRKANTOZ

**BB 533 THE CONCEPT OF CONTRAST IN BUILDING DESIGN**

2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The concept of contrast in building design methodology according to different interpretations of the architect in design process.

**Pre-requisite:** -

**Assessment Methods:** written exam/assignment

**Recommended Resources:**
BB 534 TYPOLGY OF RESIDENTIAL ARCHITECTURE

2 hrs/week, theory, 2 credits, 2 ECTS credits

Objective / Contents: We aim to make a general study on the typology as a concept, than to do a research in a chosen geographic area, the effects of urban morphology on the types of housing throughout the history and different life styles.

Pre-requisite: -
Assessment Methods: written exam/assignment

Recommended Resources:

BB 535 RESIDENTIAL LIVING OF ELDERLY PEOPLE IN THE ENVIRONMENT-BEHAVIOR CONTEXT

2 hrs/week, theory, 2 credits, 2 ECTS credits

Objective / Contents: The course is mainly about how people make sense of and cope with their built environment. Architectural profession as the manipulator of the physical environment has to be aware of environmental and behavioral sciences which take men as the measure. Having such a concern, the nature and the affordances of the environment and built environment are examined in the residential areas for the elderly people through the psychological and physical determinants of old age.

Pre-requisite: -
Assessment Methods: written exam/assignment

Recommended Resources:
ZEVI, B. Mimariyi Öğrenmek, Birsen yayinevi, İstanbul 1990.
LEHR, U., “Yaşlanmanın Psikolojisi” Neylan Eryar (çev.) Bilimsel ve
BB 536 FLEXIBILITY IN ARCHITECTURE

2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: This course provides a conceptual framework for the students to evaluate the concept of flexibility in modern architectural spatial organization and design. Theoretical readings will be followed, reviewed and discussed during this course, and buildings and projects will be analyzed by students.

Pre-requisite: -

Assessment Methods: written exam / assignment

Recommended Resources:
CONSTRUCTION TECHNOLOGY PROGRAM

Program Head:
Asst. Prof. Dr. Suat ÇAKIR

Phone: 0212 252 16 00 / 279

Address:
Mimar Sinan Fine Arts University
Meclis-i Mebusan Caddesi 34427, Fındıklı ISTANBUL

The aim of the program is to give detailed information about the building systems and the present the recent trends in contemporary building construction methods. It includes Master of Science and PhD programs.

TEACHING STAFF

FULL TIME

Prof. Aydan ÖZGEN
Bachelor/Master: İTÜ, 1967.

Asst.Prof. Dr. Suat ÇAKIR

Asst.Prof. Dr. İlkyay KOMAN

Asst.Prof. Dr. Özlem EREN

Asst.Prof. Dr. Ayşin SEV

Asst.Prof. Dr. Berrin ŞAHİN

Inst. Dr. Ömer DENİZ

PART TIME

Prof. Dr. Özer ERENMAN
# MASTER PROGRAMME

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## ELECTIVE COURSES

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<td>YB 521 Steel Construction Systems in High Tech Buildings</td>
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<td>YB 525 Introduction to Tunnel Formwork Technology</td>
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<td>YB 530 Comparative Analysis and Assessment Criteria in Timber Structural Systems</td>
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<td>YB 531 Open Building</td>
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GRADUATE COURSES

REQUIRED COURSES

YB 500 SEMINAR
2 hrs/week, Teori, non-credit, 4 ECTS credits

Objective / Contents: It is aimed to educational studies shall be carried out pertaining to class topics of the program with participation of experts in construction Technology and that of students.

Pre-requisite: -
Assessment Methods: written exam/assignment

Teaching Staff: Prof. Dr. Özer ERENMAN, Prof. Aydan ÖZGEN, Asst. Prof. Dr. Suat ÇAKIR, Asst. Prof. Dr. Özlem EŞIÎZ, Asst. Prof. Dr. İlkay KOMAN, Asst. Prof. Dr. Ayşin SEV, Asst. Prof. Dr. Berrin ŞAHİN, Inst. Dr. Ömer DENİZ

YB 591 PROJECT
6 hrs/week, Practice, 3 credits, 10 ECTS kredisi

Objective / Contents: Designing of a project on the student’s research field.

Pre-requisite: none
Assessment Methods: submission of project

Teaching Staff: Prof. Dr. Özer ERENMAN, Prof. Aydan ÖZGEN, Asst. Prof. Dr. Suat ÇAKIR, Asst. Prof. Dr. Özlem EREN, Asst. Prof. Dr. İlkay KOMAN, Asst. Prof. Dr. Ayşin SEV, Asst. Prof. Dr. Berrin ŞAHİN, Inst. Dr. Ömer DENİZ

YB 592 PROJECT
6 hrs/week, Practice, 3 credits, 10 ECTS credits

Objective / Contents: Designing of a
**ELECTIVE COURSES**

**YB 502 WOODEN PREFABRICATED SYSTEMS**
2 hrs/week, theory, 2 credits, 4 ECTS credits.

*Objective / Contents:*

*Pre-requisite: --*

*Assessment Methods: assignment*

*Recommended Resources:*

*Teaching Staff: Asst. Prof. Dr. Suat ÇAKIR*

**YB 519 PREFABRICATION IN REINFORCED CONCRETE CONSTRUCTION**
2 hrs/week, theory, 2 credits, 4 ECTS credits.

*Objective / Contents:*

Explanation of industrialization in construction, investigation of design and production principle of units and elements of prefabricated reinforced concrete systems. For this, possibilities and restrictions on design, marketing and project development methods, using of informatics and robot technology in reinforced concrete technology are carried out as saminer studies.

*Pre-requisite: --*

*Assessment Methods: assignment*

*Recommended Resources:*


*Teaching Staff: Asst. Prof. Dr. İ lkay KOMAN*

**YB 521 STEEL CONSTRUCTION SYSTEMS IN HIGHTECH BUILDINGS**
2 hrs/week, theory, 2 credits, 4 ECTS credits

*Objective / Contents:*

Steel structures are used on many building type and can be maintained easily. Steel construction systems are classified to investigate as trussed beam steel buildings, cable structures, space frame, geodesic dome, frame systems, cellular systems, fencicular systems, arches.

*Pre-requisite: none*

*Assessment Methods: assignment*

*Recommended Resources:*


*Teaching Staff: Asst. Prof. Dr. Özlem EREN*
YB 522 ADAPTATION OF PREFABRICATED REINFORCED CONCRETE SYSTEMS ON BUILDING TYPOLOGY

2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: Explanation of guiding factors of design construction and using period of prefabricated reinforced concrete buildings, planning and using flexibility of prefabricated reinforced concrete buildings according to the building typology. For this, same sampler studies of technology possibility, planning, arrangement possibility and subsystems are carried out.

Pre-requisite:

Assessment Methods: assignment

Recommended Resources: AYAYDIN, Y., Betonarme Çok Katlı Prefabrike İskel Sistemler -Değerlendirme Önerileri (cilt 2), Kurtiş Matbaası, İstanbul 1992.


Teaching Staff: Asst. Prof. Dr. İlke KOMAN

YB 524 INTEGRATION OF CONSTRUCTION SUBSYSTEMS

2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: The aim of integration of subsystems is the establishment of relationship between variety of subsystems. For this, integration methods and applications are investigated.

Pre-requisite:

Assessment Methods: assignment


Teaching Staff: Asst. Prof. Dr. Özlem ERER

YB 525 INTRODUCTION TO TUNNEL FORMWORK TECHNOLOGY

2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: Generally prefabricated formworks are used in construction sector in these days. In Turkey at seismic zones the mass housing, hostel and etc. projects which have short spans are constructed with prefabricated and also tunnel
formworks. These formworks make it possible to construct projects which have earthquake resistant. In this lecture, tunnel formwork technologies are introduced and the possibilities and restrictions which have been faced during design process of architectural projects are put out.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:** ŞAHİN, B., Tünel Kalıplar Teknolojilerinin Getirdiği Olanak ve Kısıtlamaların Atatürk Üzerinde İrdelenmesi, MSÜ, Fen Bilimleri Enstitüsü, İstanbul 1997.


**Teaching Staff:** Asst. Prof. Dr. Berrin ŞAHİN

**YB 526 THE PROCESS OF DEVELOPMENT PROPERTY**

2 hrs/week, theory, 2 credits, 4 ECTS credits

**Objective / Contents:** The aim of the lecture is to introduce the development process of a project. First of all, the investment vehicles and the importance of the property will be introduced. Then, the investors at Turkey and their aim of investment will be presented. Finally, the phases of property development process will be studied. These phases would be: the process of investment decision according to the country, region, city; feasibility studies, income- cost estimates, the economically evaluation of the project.

**Pre-requisite:** -

**Assessment Methods:** assignment

**Recommended Resources:** ŞAHİN, B., Ahişveriş Merkezi Yatırmarnın Türkiye Koşullarında İrdelenmesi ve Antalya Örneği, Doktora Tezi, MSÜ, Fen Bilimleri Enstitüsü, İstanbul 2001.

ÇAVLI, M., Yatırım Projelerinin Hazırlanması ve Değerlendirilmesi. İTO, Yayım No. 21, 1995.


**Teaching Staff:** Asst. Prof. Dr. Berrin ŞAHİN

**YB 528 COMPOSITE STRUCTURAL SYSTEMS**

2 hrs/week, theory, 2 credits, 4 credits

**Objective / Contents:** In this course, initially multi-storey building systems to withstand lateral loads will be identified. Then the concept of composite structural systems will be introduced. After giving brief information about the historical development of composite building systems, composite building elements, such as shear walls, columns and beams will be explained and composite systems and case studies about each system will be presented. Finally, high-efficiency systems and future trends will be explained.

**Pre-requisite:** none
Assessment Methods: written exam / assignment

Recommended Resources:

Teaching Staff: Asst. Prof. Dr. Ayşin SEV

YB 530 COMPARATIVE ANALYSIS AND ASSESSMENT CRITERIA IN TIMBER STRUCTURAL SYSTEMS
3 saat/hafta, Teori, 3 kredi, 4 ECTS kredisi

Objective / Contents:

Pre-requisite: --

Assessment Methods: written exam / assignment

Recommended Resources:

YB 531 OPEN BUILDINGS
2 hrs/week, theory, 2 credits, 2 ECTS credits

Objective / Contents: Open Building is the international movement based on the organizing buildings and their technical and decision-making processes according to levels. It is a new multi-disciplinary approach to the design, construction and long-term management process of buildings, including mixed-use structures. Its goals include creating varied, fine-grained and sustainable environment, and increasing individual choice and responsibility within in. In Open Building, responsibility for decision-making is distributed on various levels.

Pre-requisite: --

Assessment Methods: written exam / assignment


Teaching Staff: Inst. Dr. Ömer DENİZ

YB 532 SPACE ENCLOSING ELEMENTS
2 hrs/week, theory, 2 credits, 2 ECTS credits

Objective / Contents: Concerns for sustainability require us to consider the fundamental requirements of buildings and to re-examine our current approaches to space.
separation. Some observers question that perhaps we have gone too far in separating ourselves from nature. Space enclosing elements (building enclosure) represent the base building which defines and forms the space in architectural design. If architecture intends to attain sustainability, it is important to take into consideration to “Space Enclosing Building Elements”, because they are esthetic, functional and structural means which drive so many performance parameters for buildings.

Pre-requisite: --
Assessment Methods: written exam / assignment

Recommended Resources:

Teaching Staff: Inst. Dr. Ömer DENİZ

YB 533 BUILDING ELEMENT DESIGN
2 hrs/week, theory, 2 credits, 2 ECTS credits

Objective / Contents: Most building failures were the result of the “unknown interactions between the known elements”. This phenomena is must be taken into consideration in building and element design process. To form successful building, the principles of building element design should be applied to relevant elements, and also building elements should be integrated according to the systems basis. This lecture gives information about principles of element design, building systems integration, evaluation and decision making in building design.

Pre-requisite: --
Assessment Methods: written exam / assignment

Recommended Resources:

Teaching Staff: Inst. Dr. Ömer DENİZ
The aim of the graduate courses of the chair of the History of Architecture is to prepare the students for the PhD and to help them to develop a wider perspective in their understanding of architectural history.
# MASTER PROGRAMME

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# ELECTIVE COURSES

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<td>MT 507 The Role Of Austria In Modern Architecture</td>
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<td>MT 504 Architecture in the Last Periods of the Ottoman Empire and Early Turkish Republic</td>
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<td>MT 506 Turkish Architecture From 1923 Onwards</td>
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COURSE CONTENTS
REQUIRED COURSES

MT 500 SEMINAR
2 hrs/week, non-credit, 10 ECTS credits

Objective / Contents: Lectures will be delivered by the staff of the chair on various subjects related to the history of architecture. Students will also be assigned for lectures.

Recommended Resources: 
Teaching Staff: Assoc. Prof. Dr. Ayla ANTEL

ELECTIVE COURSES

MT 502 RATIONALIST TENDENCIES IN THE 20TH CENTURY
3 hrs/week, theory, 3 Credits, 5 ECTS Credits

Objective / Contents: Many tendencies in a rationalist attitude occurred in the 20th Century. A detailed evaluation of such attitudes could result in the development of contemporary rationalist styles.

Pre-requisite: -
Assessment Methods: written exam / assignment

Recommended Resources: ÖZER, B., Kültür Sanat Mimarlık, YEM Yayınım, İstanbul.

Teaching Staff: Assoc. Prof. Dr. Ayla ANTEL

MT 504 ARCHITECTURE IN THE LAST PERIODS OF THE OTTOMAN EMPIRE AND EARLY TURKISH REPUBLIC
3 hrs/week, theory, 3 Credits, 5 ECTS Credits

Objective / Contents: After an inquiry to the eclecticist period of Ottoman Architecture, this course aims to evaluate the nationalist attitude with a comparison to the former and latter periods.

Pre-requisite: -
Assessment Methods: written exam /assignment

Recommended Resources: ACAR, G., Tanzimat Dönemi Fikir ve Düüünce Hayatının Mimari Alana Yansımıması,MSÜ,.Sosyal Bilimler Enstitüsü Yayınlanmamış Doktora
Tezi, İstanbul 2000.
ÇELİK, Z., 19.Yüzyılda Osmanlı Başkenti Değişen İstanbul (The
Remarking of İstanbul Portrait of an Ottoman City in the Nineteenth
KUBAN, D., İstanbul Yazıları.

Teaching Staff: Asst. Prof. Dr. Gevher ACAR

MT 505 RATIONALISM IN MODERN ARCHITECTURE
3 hrs/week, theory, 3 Credits, 6 ECTS Credits

Objective / Contents: Rationalism goes on to being a highly referred clue in
the architecture of economically declined countries. This course aims to
search methods of adapting Rationalist concepts into the conditions of our
age.

Pre-requisite: -
Assessment Methods: written exam / assignment

Recommended Resources: ÖZER, B. Kültür Sanat Mimarlık, YEM Yayınları,
İstanbul

Teaching Staff: Assoc. Prof. Dr. Ayla ANTEL

MT 506 TURKISH ARCHITECTURE FROM 1923 ONWARDS
3 hrs/week, theory, 3 Credits, 5 ECTS Credits

Objective / Contents: The evaluation of the stylistic struggle from 1923 to
the 1940’s in the search for an
architectural language appropriate to
the philosophy of the republic, with a
special emphasis on the capital city
Ankara.

Pre-requisite: -
Assessment Methods: written exam / assignment

Recommended Resources: ÜSTÜN, A. Türkiye’deki Mimarlık Düşünçesinin
Cumhuriyet Devrimindeki Evrimi, Karadeniz teknik Üniversitesi yayınları,
Trabzon 1976.
ASLANOĞLU, İ. Erken Cumhuriyet Dönemi Mimarlığı, ODTÜ yayınları,
Ankara 1980.
ÖZER, B. Rejyonaliz, Universalizm ve Çağdaş Mimarımız Üzerine Bir
Deneme, İTÜ Mimarlık Fak. Yayınları, İstanbul 1954.
ERKMEN, E., Clemens Holzmeister ve Türk Mimarlığımızdaki Yeri, MSÜ, Fen
Bilimleri Enstitüsü, Yayınlanmamış doktora tezi, İstanbul.

Teaching Staff: Asst. Prof. Dr. Elvan ERKMEN

MT 507 THE ROLE OF AUSTRIA IN MODERN ARCHITECTURE
3 saat/hafta, Teori, 3 kredi, 6 ECTS Kredisi

Objective / Contents: This course aims to emphasize the role of Austria as a
pioneer in Modern Architecture by tracing the architectures of  O.
Wagner, J. Olbrich, J. Hoffmann and A. Loos in the struggle against
historicism.

Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources: “Mimarlık Tarihi Anabilim Dalı ve Öğrencileri”, Viyana Gezisi Notları, Yapı 196, İstanbul 1998
Teaching Staff: Asst. Prof. Dr. Elvan ERKMEN

MT 508 DIFFERENT TENDENCIES FOLLOWING MODERN ARCHITECTURE
3 hrs/week, theory, 3 Credits, 5 ECTS Credits
Objective / Contents: Examination of the various architectural tendencies following the decline of Modern Architecture. Evaluation of such practices in our country.
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources: ÖZER, B., Kültür Sanat Mimarlık, YEM Yayınları, İstanbul
Teaching Staff: Assoc. Prof. Dr. Ayla ANTEL

MT 509 STRUCTURAL DEVELOPMENTS IN ANCIENT ARCHITECTURE
3 hrs/week, theory, 3 Credits, 6 ECTS Credits
Objective / Contents: The Greek column-beam system, the arched buildings of the Roman Civilisation, the vaulted system of Romanesque architecture, the cross-vaults and flying butresses of Gothic style will be examined with their various reflections.
The structural development process has a high acceleration in our age. This course aims to evaluate the support of ancient architecture to this process.
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources: ÜNSAL, B., Mimari Tarihi. Teknik Okulu Yayınları, İstanbul
MUTLU, B., Mimarlık Tarihi Ders Notları, Mimarlık Vakfı Yayınları, İstanbul
Teaching Staff: Assoc. Prof. Dr. Ayla ANTEL

MT 511 ARCHITECTURE AND PHILOSOPHY I
2 hrs/week, theory, 2 Credits, 5 ECTS Credits.
Objective / Contents: The aim of this course is to determine the architecture-philosophy relationship in the context of the interaction between epistemology and art theory, to examine the evolution of this relationship throughout history and to evaluate the situation until the 20th century. Various periods in history, various tendencies are inquired in reference to philosophers and art theoreticians.
Pre-requisite: -
Assessment Methods: written exam, assignment
Recommended Resources: GELERNTER, M. Sources of
Architectural Form, Manchester
University Pres, Manchester-New York
1995
WOJCIECH, GL. Rationalism and
Romanticism in Architecture,
McGraw-hill Book Company, USA
1982.
KÖNEMANN, The Story of Philosophy
From Antiquity to the Present, Köln
2000.

Teaching Staff: Asst. Prof. Dr. Ebru
Özeke TÖKMECI
RESTORATION-CONSERVATION AND RENOVATION PROGRAMME

Program Head:
Prof. Dr. Oğuz CEYLAN
Tel: 0212 252 1600 / 254

Address:
Mimar Sinan Fine Arts University
Meclis-i Mebusan Caddesi 34427, Fındıklı İSTANBUL

The aim of Conservation and Renovation Master Programme is to prepare the survey of the present condition a historic monument and its restitution and restoration projects, in terms of contemporary restoration theory and methodologies and the investigation of conservation study examples in Turkey and in the World.

TEACHING STAFF

FULL TIME

Prof. Dr. İlgi Yüce AŞKUN

Prof. Dr. Oğuz CEYLAN
Bachelor/Master: D.G.S.A. 1977; PhD: MSÜ, 1989..

Prof. Dr. Demet ULUSOY BİNAN

Asst. Prof. Dr. Zeliha Hale TOKAY

Asst. Prof. Dr. Tülay ÇOBANCAOĞLU

Asst. Prof. Dr. Mevlüde KAPTİ

Asst. Prof. Dr. Binnur KIRAÇ
MASTER PROGRAMME

1. SEMESTER

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<td>RY 503 Conservation of Traditional Turkish House</td>
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<td>RY 591 Project</td>
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# ELECTIVE COURSES

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COURSE CONTENTS

REQUIRED COURSES

RY 500 SEMINAR
1 hrs/week, non-credit, 2 ECTS credits
Objective / Contents: Lectures are given by specialists on conservation, restoration, art and history of architecture. Students are expected to contribute the seminar.
Pre-requisite:
Assessment Methods:
Recommended Resources:
Teaching Staff: Prof. Dr. İlgi AŞKUN, Prof. Dr. Oğuz CEYLAN, Prof. Dr. Demet BİNAN, Asst. Prof. Dr. Hale TOKAY, Asst. Prof. Dr. Tiilay ÇOBANCAOĞLU, Asst. Prof. Dr. Mevlüde KAPTI

RY 501 CONSERVATION IN TRADITIONAL STONE AND BRICK ARCHITECTURE
2 hrs/week, theory, 2 credits, 4 ECTS credits
Objective / Contents: Surveying traditional masonry construction such as masonry walls, columns, pillars and arches; space covering elements (vaults and domes), chimneys, eaves, bracket and mouldings, overhangs, stairs, doors, windows and claddings etc; construction aim, construction techniques and tools, materials used in traditional stone and brick architecture.
Pre-requisite:
Assessment Methods: written exam/assignment

RY 502 CONSERVATION IN TRADITIONAL TIMBER ARCHITECTURE
2 hrs/week, theory, 2 credits, 4 ECTS credits
Objective / Contents: Surveying framed structure and other construction systems in traditional timber buildings; construction of external and internal walls; cladding of walls, roof systems and covers, claddings of ceiling; eaves, doors and windows; finishing details and works; traditional and contemporary tools and materials releved of all these elements; construction aim of the construction elements and conservation principles and techniques for these elements according to their present condition. Evaluation of information of the traditional building for structural and spatial restoration and methods of intervention such as consolidation, restituation and reconstruction.
Pre-requisite:
Assessment Methods: written exam/assignment

Recommended Resources: ELDEM, S. H. Yapı, İDGSA yayını
ÖKṬEŅ, S., DUMAN, N., Ahşap Yapı Dersleri I. YEM yayını.
ERİŞ, M., Dünyanın ve Bugünün Ahşap ve Ahşaptan Üretilmiş Malzeme, İTÜ yayını.

Teaching Staff: Asst. Prof. Dr. Tülay ÇOBANÇAOĞLU

RY 503 CONSERVATION OF TRADITIONAL TURKISH HOUSE
2 hrs/week, theory, 2 credits, 3 ECTS credits

Objective / Contents: Evaluation of anthropologic characteristics, historical development and transformations of traditional Turkish House which is the mostly restored building type. Planimetry and spatial characteristics of traditional Turkish House. Distribution of traditional timber house in different geographical regions in and outside Turkey. Determination of various intervention methods to be applied to traditional houses according to different restoration principles and legislative regulations. Conservation and restoration examples from Turkey and other countries.

Pre-requisite: -
Assessment Methods: written exam/assignment
Recommended Resources: ELDEM, S. E., Türk Evi Plan Tipleri, İTÜ yayını
ELDEM, S.E., Türk Evi, TAÇ Vakfı yayını, 3 cilt
SEZĠN, H., Architecture Traditionnelle des Balkans Turquie
AKIN, N., Balkanlarda Osmanlı Dönemi Konutları
KĠÇUCKETMAN, Ö., Odala, T TOK yayını.

RY 503 CONSERVATION OF TRADITIONAL TURKISH HOUSE
2 hrs/week, theory, 2 credits, 3 ECTS credits

Objective / Contents: Conservation of the cultural heritage by the methods of intervention and reconstruction concerning its authenticity is studied.

Pre-requisite: -
Assessment Methods: written exam/assignment
Recommended Resources: AHUNBAY, Z. Tarihi Çevre Koruma ve Restorasyon. İstanbul 1996.

Teaching Staff: Prof. Dr. Oğuz CEYLAN

RY 512 METHODS OF INTERVATION
2 hrs/week, theory, 2 credits, 3 ECTS credits

Objective / Contents: Conservation of the cultural heritage by the methods of intervention and reconstruction concerning its authenticity is studied.

Pre-requisite: -
Assessment Methods: written exam/assignment
Recommended Resources: AHUNBAY, Z. Tarihi Çevre Koruma ve Restorasyon. İstanbul 1996.

Teaching Staff: Prof. Dr. Oğuz CEYLAN

RY 514 CONTEMPORARY CONSERVATION APPROACHES FOR THE LATE PERIOD OF OTTOMAN ARCHITECTURE
2 hrs/week, theory, 2 credits, 2 ECTS credits

Objective / Contents: Ottoman society experienced radical transformation in its social structure though the 19th century. Changes in social life led to emerge new building types as well as new structural systems. These were basically western influenced types and imported materials which were all new to the traditional society. These
buildings are significant elements of our cultural identity and today needs to be preserved. The aim of the course is to discuss the restoration problems of these buildings and propose appropriate solutions in accordance with the contemporary principals and methods of conservation.

**Pre-requisite:**
**Assessment Methods:** assignment

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Dr. Mevlüde KAPTI

**RY 591 PROJECT**
4 hrs/week, practice, 2 credits, 10 ECTS credits

**Objective / Contents:** Survey of an architectural monument or group of buildings. Preperation of documents of the building to be restored. Measured drawing of the details. Decision of necessary intervation method and preperation of restoration project. Making model if necessary.

**Pre-requisite:**
**Assessment Methods:** assignment

**Recommended Resources:**
- SWALLO, P., D. WATT, R.
- GÜNAY, R., Geleneksel Ahşap Yapılar, Sorunları Ve Çözüm Yolları, Birsen Yamevi, İstanbul 2002.

**Teaching Staff:** Prof. Dr. İlgi AŞKUN, Prof. Dr. Oğuz CEYLAN, Prof. Dr. Demet BİNAN, Asst. Prof. Dr. Hale TOKAY, Asst. Prof. Dr. Tülay ÇOBANCAOĞLU, Asst. Prof. Dr. Mevlüde KAPTI Asst. Prof. Dr. Binnur KIRAÇ

**RY 592 PROJECT**
4 hrs/week, practice, 2 credits, 10 ECTS credits

**Objective / Contents:** Survey of an architectural monument or group of buildings. Preperation of documents of the building to be restored. Measured drawing of the details. Decision of necessary intervation method and preperation of restoration project. Making model if necessary.

**Pre-requisite:**
**Assessment Methods:** assignment
**Recommended Resources:**
GÜNAY, R., Geleneksel Ahşap Yapılar, Sorunları Ve Çözüm Yolları, Birsen Yamevi, İstanbul 2002.

**Teaching Staff:** Prof. Dr. İlgi AŞKUN, Prof. Dr. Oğuz CEYLAN, Prof. Dr. Demet BİNAN, Asst. Prof. Dr. Hale TOKAY, Asst. Prof. Dr. Tülay ÇOBANÇAOĞLU, Asst. Prof. Dr. Mevlüde KAPTİ Asst. Prof. Dr. Binnur KIRAÇ

**ELECTIVE COURSES**

**RC 504 NEW FUNCTIONS FOR TRADITIONAL BUILDING TYPES**
2 hrs/week, theory, 2 credits, 4 ECTS credits

**Objective / Contents:** Determination of new function for traditional buildings which lost original function but need conservation. Search the reasons for loosing the original function. Determination of new function considering the characteristics, conditions and needs of the historical site in which the traditional building is located. Analysis of the structural and spatial characteristics of the building in relation to its typology. Decision of the possible interventions in the building in accordance with restoration principles and technical and legislative information.

**Pre-requisite:**

**Assessment Methods:** written exam/assignment

**Recommended Resources:** AHUNBAY, Z. Tarihi çevre Koruma ve Restorasyon. YEM Yayınları, İstanbul 1996.
YÜCE, İ. Medrese yapıları ve Koruma İlkeleri Doğrultusunda Çağdaş Yaşam
RÇ 505 EVALUATION AND CONSERVATION OF SITES
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: Concept and definition of site. Search and evaluation of natural, archeological, urban and historic sites. Examples of preservation interventions in Turkey and other countries. Determining principles in site conservation (important Subjects of site conservation).

Pre-requisite:-

Assessment Methods: written exam/assignment

RADT, W. Pergamon Antik Bir Kentin Tarihi ve Yapıları. YKY, İstanbul 2002.

Teaching Staff: Prof. Dr. Demet BİNAN

RÇ 506 NEW DESIGN IN HISTORIC URBAN SITES
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: Analysis of the concept and scope of urban historic site. Definition of outdoor spaces such as streets, squares and empty spaces which form the historical urban fabric. Determination of principles and methodology to design new buildings or additions to existing traditional buildings within historical fabric in accordance with needs. Discussion examples from Turkey and other countries.

Pre-requisite:-

Assessment Methods: written exam/assignment


Teaching Staff: Prof. Dr. İlgi YÜCE AŞKUN
RY 507 MONUMENTAL BUILDING TYPES in TRADITIONAL TURKISH ARCHITECTURE
2 hrs/week, theory, 2 credits, 3 ECTS credits

Objective / Contents: Besides the spatial, structural and architectural characteristics of monumental buildings built in Anatolian Seljucks, Turkish States and Ottoman periods, styles of architectural elements, reasons of deterioration and conservation aspects of historic monuments and their adaptation to contemporary life are studied.

Pre-requisite:-
Assessment Methods: written exam/assignment


Teaching Staff: Asst. Prof. Dr. Hale TOKAY

RY 508 THEORY OF CONSERVATION AND LEGISLATIVE REGULATIONS
2 hrs/week, theory, 2 credits, 3 ECTS credits

Objective / Contents: Concept and scope of the cultural asset, definition of values for the cultural asset, classification of the cultural assets, clarification of reasons threaten the monument. Necessity of the theory in restoration. Historical development of theory of architectural conservation in the world and Turkey. Historical background of the laws and regulations that valid until now in Turkey.

Pre-requisite:-
Assessment Methods: written exam/assignment


Teaching Staff: Asst. Prof. Dr. Binnur KIRAÇ

RY 509 VERNACULAR ARCHITECTURE AND CONSERVATION
2 hrs/week, theory, 2 credits, 3 ECTS credits
Objective / Contents: Traditional architecture concept and its relation with vernacular architecture; concept and characteristics of vernacular architecture; determining “what to conserve” as a first step in conservation and preparing the inventories with the help of vernacular architecture; problems of conserving vernacular architecture; determining the values to be preserved according to the analysis of vernacular architecture; deciding the priorities of conservation for the buildings with concern of their values in decay.

Pre-requisite:

Assessment Methods: written exam/assignment


Teaching Staff: Prof. Dr. Demet BİNAN

RY 515 PRESERVATION AND REGENERATION OF INDUSTRIAL HERITAGE

2 hrs/week, theory, 2 credits, 2 ECTS credits

Objective / Contents: “The industrial heritage” concept, its cultural dimensions and extent; “Industrial archealogy” and its interdisciplinary character; Conservation and its development by means of “industrial heritage”; Method of defining the resources of industrial heritage, survey studies and investigations on the documents, analysis of the data, final evaluation; Problems of re-using industrial heritage, suggestions and Turkey as an example in the field of industrial heritage.

Pre-requisite:

Assessment Methods: written exam/assignment


Teaching Staff: Asst. Prof. Dr. Binnur KIRAÇ
RESTORATION-EVALUATION OF HISTORIC URBAN SITES PROGRAMME

Program Head: Prof. Dr. İlgı AŞKUN

Phone: 0212 252 1600 / 254

Address:
Mimar Sinan Fine Arts University
Meclis-i Mebusan Caddesi 34427, Fındıklı İSTANBUL

In Evaluation of Historic Environments Master Programme, the survey, restitution and restoration projects of the selected traditional urban site, concerning evaluation and proposals for the site, are prepared. Projects are supported by contemporary restoration theory and methodologies. Discussion and evaluation of the problems and proposals of interventions on urban conservation examples from Turkey and the World.

TEACHING STAFF

FULL TIME

Prof. Dr. İlgı Yüce AŞKUN

Prof. Dr. Oğuz CEYLAN

Prof. Dr. Demet ULUSOY BİNAN

Asst. Prof. Dr. Zeliha Hale TOKAY

Asst. Prof. Dr. Tülay ÇOBANCAOĞLU

Asst. Prof. Dr. Mevlüde KAPTI

Asst. Prof. Dr. Binnur KIRAÇ
# MASTER PROGRAMME

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<td>RY 509 Vernacular Architecture and Conservation</td>
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<td>RY 512 Methods of Intervention</td>
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<td>RY 514 Contemporary Conservation Approaches for the Late Period of Ottoman Architecture</td>
<td>2</td>
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</table>
COURSE CONTENTS

REQUIRED COURSES

RÇ 500 SEMINAR
1 hrs/week, non-credit, 2 ECTS credits
Objective / Contents: Lectures are given by specialists on conservation, restoration, art and history of architecture. Students are expected to contribute the seminar.
Pre-requisite:
Assessment Methods:
Recommended Resources:
Teaching Staff: Prof. Dr. İlgi AŞKUN, Prof. Dr. Oğuz CEYLAN, Prof. Dr. Demet BİNAN, Asst. Prof. Dr. Hale TOKAY, Asst. Prof. Dr. Tülay ÇOBANCAOĞLU, Asst. Prof. Dr. Mevlüde KAPTI

RÇ 504 NEW FUNCTIONS FOR TRADITIONAL BUILDING TYPES
2 hrs/week, theory, 2 credits, 4 ECTS credits
Objective / Contents: Determination of new function for traditional buildings which lost original function but need conservation. Search the reasons for loosing the original function. Determination of new function considering the characteristics, conditions and needs of the historical site in which the traditional building is located. Analysis of the structural and spatial characteristics of the building in relation to its typology. Decision of the possible intervations in the building in accordance with restoration principles and technical and legislative information.
Pre-requisite:
Assessment Methods: written exam/assignment
Recommended Resources: AHUNBAY, Z., Tarihi çevre Koruma ve Restorasyon. YEM yayınıları, İstanbul 1996.
ALTINOLUK, Ü., Yeniden Kullanımı. YEM yayınıları, İstanbul 1998.
Teaching Staff: Prof. Dr. İlgi AŞKUN

RÇ 505 EVALUATION AND CONSERVATION OF SITES.
2 hrs/week, theory, 2 credits, 3 ECTS credits
Objective / Contents: Concept and definition of site. Search and evaluation of natural, archeological, urban and historic sites. Examples of preservation interventions in Turkey and other countries. Determining principles in site conservation.(important subjects of site conservation.)
Pre-requisite:
Assessment Methods: written exam/assignment
RADT, W. Pergamon Antik Bir Kentin Tarihi ve Yapıları. YKY, İstanbul 2002.

Teaching Staff: Prof. Dr. Demet BİNAN

RÇ 506 NEW DESIGN IN HISTORIC URBAN SITES
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: Analysis of the concept and scope of urban historic site. Definition of outdoor spaces such as streets, squares and empty spaces which form the historical urban fabric. Determination of principles and methodology to design new buildings or additions to existing traditional buildings within historical fabric in accordance with needs. Discussion examples from Turkey and other countries.

Pre-requisite:-

Assessment Methods: written exam/assignment


Teaching Staff: Prof. Dr. İlgi AŞKUN

RÇ 507 MONUMENTAL BUILDING TYPES IN OTTOMAN ARCHITECTURE AND THEIR ADAPTATION TO CONTEMPORARY LIFE
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: Besides the spatial, structural and architectural characteristics of monumental buildings built in Anatolian Seljucks, Turkish States and Ottoman periods, styles of architectural elements, reasons of deterioration and conservation aspects of historic monuments and their adaptation to contemporary life are studied.

Pre-requisite:-

Assessment Methods: written exam/assignment


**Teaching Staff:** Asst. Prof. Dr. Hale TOKAY

**RC 508 THEORY OF CONSERVATION AND LEGISLATIVE REGULATIONS**

2 hrs/week, theory, 2 credits, 3 ECTS credits

**Objective / Contents:** Concept and scope of monument, definition of values for a monument, classification of the monuments, clarification of reasons threaten the monument. Necessity of the theory in restoration. Methods of intervention: Consolidation, Reconstruction, Liberation, Restitution, Renovation, Reanimation. Historical development of theory of architectural conservation in the World and Turkey. Historical background of the laws and regulations that valid until now in Turkey. 

**Pre-requisite:**

**Assessment Methods:** written exam/assignment

**Recommended Resources:**


**Teaching Staff:** Asst. Prof. Dr. Binnur KIRAÇ

**RC 591 PROJECT**

4 hrs/week, practice, 2 credits, 10 ECTS credits

**Objective / Contents:** Determination of architectural heritage that is necessary to conserve within a urban historic site. Analysis of structural and spatial characteristics of the site. Preparation of determination zones.

**Pre-requisite:**

**Assessment Methods:** assignment

**Recommended Resources:**

GÜNAY, R., Geleneksel Ahşap Yapılar, Sorunları Ve Çözüm Yolları, Birsen Yaynevi, İstanbul 2002.

**Teaching Staff:** Prof. Dr. İlgi AŞKUN,
RÇ 592 PROJECT
4 hrs/week, practice, 2 credits, 10 ECTS credits

Objective / Contents: Determination of architectural heritage that is necessary to conserve within a urban historic site. Analysis of structural and spatial characteristics of the site. Preparation of determination zones.

Pre-requisite: assignment

Assessment Methods: assignment

Recommended Resources:
GÜNAY, R., Geleneksel Ahşap Yapılar, Sorunları Ve Çözüm Yolları, Birsen Yamevi, İstanbul 2002.

Teaching Staff: Prof. Dr. İlgi AŞKUN,
ELECTIVE COURSES

RY 501 CONSERVATION IN TRADITIONAL STONE AND BRICK ARCHITECTURE
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: Surveying traditional masonry construction such as masonry walls, columns, pillars and arches; space covering elements (vaults and domes), chimneys, eaves, bracket and mouldings, overhangs, stairs, doors, windows and claddings etc; construction aim, construction techniques and tools, materials used in traditional stone and brick architecture.

Pre-requisite:
Assessment Methods: written exam/assignment


Teaching Staff: Asst. Prof. Dr. Mevlüde KAPTI

RY 502 CONSERVATION IN TRADITIONAL TIMBER ARCHITECTURE
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: Surveying framed structure and other construction systems in traditional timber buildings; construction of external and internal walls; cladding of walls, roof systems and covers, claddings of ceiling; eaves, doors and windows; finishing details and works; traditional and contemporary tools and materials related to all these elements; construction aim of the construction elements and conservation principles and techniques for these elements according to their present condition. Evaluation of information of the traditional building for structural and spatial restoration and methods of intervention such as consolidation, restitution and reconstruction.

Pre-requisite:
Assessment Methods: written exam/assignment

RY 503 CONSERVATION OF TRADITIONAL TURKISH HOUSE
2 hrs/week, theory, 2 credits, 3 ECTS credits

Objective / Contents: Evaluation of antropologic characteristics, historical development and transformations of traditional Turkish House which is the mostly restored building type. Planimetry and spatial characteristics of traditional Turkish House. Distribution of traditional timber house in different geographical regions in and outside Turkey. Determination of various intervention methods to be applied to traditional houses according to different restoration principles and legisitative regulations. Conservation and restoration examples from Turkey and other countries.

Pre-requisite:-

Assessment Methods: written exam/assignment


Teaching Staff: Asst. Prof. Dr. Tülay ÇOBANCAOĞLU

RY 512 METHODS OF INTERVATION
2 hrs/week, theory, 2 credits, 3 ECTS credits

Objective / Contents: Conservation of the cultural heritage by the methods of intervation and reconstruction concerning its authenticity is studied

Assessment Methods: written exam/assignment

Recommended Resources: AHUNBAY, Z. Tarihi Çevre Koruma ve Restorasyon. İstanbul 1996.

Teaching Staff: Prof. Dr. Oğuz CEYLAN

RY 514 CONTEMPORARY CONSERVATION APPROACHES FOR THE LATE PERIOD OF OTTOMAN ARCHITECTURE
2 hrs/week, theory, 2 credits, 2 ECTS credits

Objective / Contents: Ottoman society experienced radical transformation in its social structure through the 19th century. Changes in social life led to emerge new building types as well as new structural systems. These were basically western influenced types and imported materials which were all new to the traditional society. These buildings are significant elements of our cultural identity and today needs to be preserved. The aim of the course is to discuss the restoration problems of these buildings and propose appropriate solutions in accordance with the contemporary principals and methods of conservation.

Pre-requisite:-

Assessment Methods: assignment

Recommended Resources:
RY 509 VERNACULAR ARCHITECTURE AND CONSERVATION
2 hrs/week, theory, 2 credits, 3 ECTS credits

Objective / Contents: Traditional architecture concept and its relation with vernacular architecture; concept and characteristics of vernacular architecture; determining “what to conserve” as a first step in conservation and preparing the inventories with the help of vernacular architecture; problems of conserving vernacular architecture; determining the values to be preserved according to the analysis of vernacular architecture; deciding the priorities of conservation for the buildings with concern of their values in decay.

Pre-requisite:-

Assessment Methods: written exam/assignment


Teaching Staff: Asst. Prof. Dr. Mevlüde KAPTI

RY 515 PRESERVATION AND REGENERATION OF INDUSTRIAL HERITAGE
2 hrs/week, theory, 2 credits, 2 ECTS credits

Objective / Contents: “The industrial heritage” concept, its cultural dimensions and extent; “Industrial archealogy” and its interdisciplinary character; Conservation and its development by means of “industrial heritage”; Method of defining the resources of industrial heritage, survey...
studies and investigations on the documents, analysis of the data, final evaluation; Problems of re-using industrial heritage, suggestions and Turkey as an example in the field of industrial heritage.

**Pre-requisite:**

**Assessment Methods:** written exam/assignment


**Teaching Staff:** Asst. Prof. Dr. Binnur KIRAÇ
ARCHITECTURAL DESIGN
ISSUES PROGRAMME

Program Head:
Prof. Dr. Nesrin DENGİZ

Phone: 0212 252 1600 / 276

Address:
Mimar Sinan Fine Arts University
Meclis-i Mebusan Caddesi 34427,
Fındık'tı İSTANBUL

The Architectural Design Issues Program covers a wide range of issues related to various design issues related to miscellaneous factors in the architectural design process as well as computer aided design, demonstration and communication issues.

The aim is to research the design essentials and solutions of various factors related design issues (legal, environmental, structural, technological, formal, spatial, aesthetical...etc) depending on the fact that the architectural design process is a synthesis study.

In addition, another aim is to introduce the computer aided design, expression and communication methods; which constitute a developed architectural design technology.

TEACHING STAFF

FULL TIME

Prof. Dr. Nesrin DENGİZ

Assoc. Prof. Dr. Deniz ONAT İNCEDEYI

Asst. Prof. Dr. Recai Ersin AYNAN
Bachelor/Master: D.G.S.A. 1979; PhD: MSÜ, 1996.

Asst. Prof. Dr. F. Emel ARDAMAN
Bachelor/Master: MSÜ, 1985; Kentsel Tasarım Uzmanlık Diploması: Oxford Brooks University; PhD: MSÜ, 1996.

Asst. Prof. Dr. Ahmet TERCAN

Asst. Prof. Dr. Derin ÖNCEL
Bachelor: MSÜ, 1989; Master: MSÜ, 1992; PhD: Université Paris-8, 2002.

Asst. Prof. Dr. Selda KARAOĞMANOĞLU

PART TIME

Prof. Orhan ŞAHİNLER
Bachelor/Master: İ.D.G.S.A. 1952.

Prof. Ali MUSLUBAŞ

Prof. Dr. Sümer GÜREL
# MASTER PROGRAMME

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<th>1. SEMESTER</th>
<th>MSGSÜ</th>
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# Doctorate Programme

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## ELECTIVE COURSES

### 1. SEMESTER

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<td>TS 507</td>
<td>Architectural Applications in Historical Urban Fabric</td>
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<td>TS 509</td>
<td>Three Dimensional Modelling, Materializing and Animation in Computer Aided Design</td>
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<td>TS 511</td>
<td>The Concept of Authority in the Architectural Design Process</td>
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<td>TS 513</td>
<td>Energy Efficient Design In Architecture</td>
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<td>TS 517</td>
<td>Design with Nature; Green Design</td>
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<td>TS 518</td>
<td>Spatial Design Concept In Various Scales</td>
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### 2. SEMESTER

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<td>TS 501</td>
<td>Plasticity in Form</td>
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<td>Dimensional Coordination in the Architectural Design Process</td>
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<td>TS 508</td>
<td>Socio-Cultural Factors and Participatory Models in the Architectural Design Process</td>
<td>2</td>
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<tr>
<td>TS 510</td>
<td>Mimarlık Pratığınde İletişimsel Süreçler</td>
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<td>TS 512</td>
<td>Multidisciplinary Approach to Architectural Design Process and Environmental Problems</td>
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<td>TS 514</td>
<td>The Usage of Technology in Architecture and Energy Efficient Design</td>
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<td>TS 517</td>
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<tr>
<td>TS 592</td>
<td>Project</td>
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COURSE CONTENTS

REQUIRED COURSES

TS 500 SEMINAR
4 hours/week, 5 ECTS credits
Objective / Contents: Mutual education and presentation studies are intended via the participation of the students and the academically approved people of expertise.
Pre-requisite: -
Assessment Methods: assignment
Recommended Resources: Recommended resources and the reading list about project are given to the student at the beginning of the each semester.
Teaching Staff: Prof. Dr. Nesrin DENGİZ, Asst. Prof. Dr. Ahmet TERCAN, Asst. Prof. Dr. Derin ÖNCEL

TS 591 PROJECT
6 hrs/week, practice, 3 credits, 10 ECTS credits
Objective / Contents: The ultimate goal of the project practice is to realise the multi-disciplinary gathering in pedagogical, cultural and scientific means on both international and national platforms.
Pre-requisite: -
Assessment Methods: Project submittance
Recommended Resources: Recommended resources and the reading list about project are given to the student at the beginning of the each semester.
Teaching Staff: Prof. Dr. Nesrin DENGİZ, Asst. Prof. Dr. Ahmet TERCAN, Asist Prof. Dr. Derin ÖNCEL

ELECTIVE COURSES

TS 501 PLASTICITY IN FORM
2 hrs/week, theory, 2 credits, 5 ECTS credits
Objective / Contents: The course is meant to analyse the “architectural mass plasticity” issue on the basis of culture and historical process. In addition, the coexistence, reciprocity and common values of architecture and sculpture are discussed.
Pre-requisite: -
Assessment Methods: written exam / assignment
TUNALI, İ. Estetik, Remzi kitabevi, İstanbul 1996.
KUBAN, D. Mimarlık Kavramları, Yem yayınıları, İstanbul 1990.
Teaching Staff: Prof. Orhan ŞAHİNLER

TS 503 STANDARDIZATION IN THE ARCHITECTURAL DESIGN PROCESS
2 hrs/week, theory, 2 credits, 5 ECTS credits
Objective / Contents: The concepts and types of standardization are analyzed within the historical process. Quality and environmental standards, which are important at present are also discussed.
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources: MARTIN,

**Teaching Staff:** Prof. Dr. Nesrin DENGİZ

**TS 504 DIMENSIONAL COORDINATION IN THE ARCHITECTURAL DESIGN PROCESS**

2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The significance of the issue is emphasized via the examination of different dimensional coordination approaches and methods of the different periods, societies, architects and associations. The relative problems and solutions are also presented.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment


**Teaching Staff:** Prof. Dr. Nesrin DENGİZ

**TS 507 ARCHITECTURAL APPLICATIONS IN HISTORICAL URBAN FABRIC**

2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The presentation of the elements that affect the historical urban fabric by their architectural analysis, relations with modern architecture, place in society, methods and results on case studies via debates, conferences and seminars.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:** AYSU, E. Eski Kent Mekanlarını Düzenleme İlkeleri, İstanbul 1977.
MUSLUBAŞ, A. Büyük Britanya’da (İngiltere-İskoçya) 14 tarihi kentin eski dokusunda inşa edilmiş yeni mimari örneklerin inceleme ve doçentlik tezi çalışmaları, 1979.

**Teaching Staff:** Prof. Ali MUSLUBAŞ
TS 508 SOCIO CULTURAL FACTORS AND PARTICIPATORY MODELS IN THE ARCHITECTURAL DESIGN PROCESS
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: The interaction between different socio cultural datas, cultural processes spatial formation criterias are analyzed, to describe the related reflection on the environment. The significance of the socio cultural datas are emphasized via the examination of sample case studies from all over the globe.

Pre-requisite: -
Assessment Methods: written exam / assignment


Teaching Staff: Assoc. Prof. Dr. Deniz İNCEDAYI

TS 509 THREE DIMENSIONAL MODELLING, MATERIALIZING AND ANIMATION IN COMPUTER AIDED DESIGN
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: Common usage between drawing and animation softwares and development of digital expression of architectural products in virtual space.

Pre-requisite: -
Assessment Methods: written exam / assignment


Teaching Staff: Asst. Prof. Dr. Recai E. AYNAN

TS 510 COMMUNICATIONAL PROCESS IN ARCHITECTURAL PRACTICE
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: To present the fundamental communication concepts and mechanisms from the view point of the designing and building criterias of the occupationally active architect. The evaluation of the communication theory in accordance with architecture, space and form interaction.

Pre-requisite: -
Assessment Methods: written exam / assignment

**TS 511 THE CONCEPT OF AUTHORITY IN THE ARCHITECTURAL DESIGN PROCESS**

2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** To present the concept of authority in a wide scope with the intention of enhancing the student with the ability of approaching the subject in an analytical manner. The related legal procedure and the institutionalization of the concept are analyzed with the empathy on the 19th century.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**
- MARDİN, Ş. İdeoloji, 2. basın, İletişim, İstanbul 1993.

**Teaching Staff:** Asst. Prof. Dr. Emel F. ARDAMAN

**TS 512 MULTI DISCIPLINARY APPROACH TO ARCHITECTURAL DESIGN PROCESS AND ENVIRONMENTAL PROBLEMS**

2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** To approach, comprehend and analyze the whole coverage of environmental problems and the relations between the architecture and the environment. The concept of wholistic approach is intended in specialising topics.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment


**Teaching Staff:** Assoc. Prof. Dr. Deniz İNCEDAYI, Prof. Dr. Sümer GÜREL

**TS 513 ENERGY EFFICIENT DESIGN IN ARCHITECTURE**

2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** To approach, comprehend and analyze the whole coverage of environmental problems and the relations between the architecture and the environment. The concept of holistic approach is intended in specializing topics.

**Pre-requisite:** -
Assessment Methods: written exam / assignment

BENEVOLO, L., Modern Mimarlığın Tarihi ve Sanayi Devrimi, çev. Attila Tokath.

Teaching Staff: Asst. Prof. Dr. Ahmet TERCAN

TS 514 THE USAGE OF TECHNOLOGY IN ARCHITECTURE AND ENERGY EFFICIENT DESIGN
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: To analyze the energy problem and the usage of technology in architecture in parallel with the actual environmental problems. To provide the students with the ample basis of evaluating the relationships between the concept of energy efficient design and architectural problem solving techniques.

Pre-requisite: -

Assessment Methods: written exam / assignment


Teaching Staff: Asst. Prof. Dr. Ahmet TERCAN

TS 515 DESIGN WITH NATURE; GREEN DESIGN
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: Studying the subject known with the different names of green architecture, environmental architecture, sustainable architecture etc. in a wider spectrum. Following the lessons and the guest lecturers, the students can form their own perspectives based on design parameters. The lesson also helps to show the impacts of the built environment both on the natural environment and to our health system. Various evaluation systems; LEED, B; B; BRE, Bream, GBC is also introduced.

Pre-requisite: -

Assessment Methods: 

Recommended Resources: 

Teaching Staff: Asst. Prof. Dr. . Selda KARAOSMANOĞLU

TS 518 SPATIAL DESIGN CONCEPT IN VARIOUS SCALES
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: Discussing the architectural design process within different scales; to expand the project from urban pattern to inner space
concepts.

**Pre-requisite:** -

**Assessment Methods:**

**Recommended Resources:**
- SPARKE Penny “100 ans de design”, Octopus, France 2003.

**Teaching Staff:** Asst. Prof. Dr. Derin ÖNCEL

**TS 592 PROJECT**

6 hrs/week, theory, 3 credits, 10 ECTS credits

**Objective / Contents:** Realization of an architectural design which is related to the thesis study of the student and the project area.

**Pre-requisite:** -

**Assessment Methods:** Project submittance

**Recommended Resources:**
Recommended resources and the reading list about project are given to the student at the beginning of the each semester.

**Teaching Staff:** Prof. Dr. Nesrin DENGİZ, Prof. Dr. Fehmi KIZIL, Assoc. Prof. Dr. Deniz İNCEDAYI, Asst. Prof. Dr. Emel F. ARDAMAN, Asst. Prof. Dr. Recai E. AYNAN, Asst. Prof. Dr. Ahmet TERCAN
CONSTRUCTION PHYSICS AND MATERIALS PROGRAMME

Program Head: Prof. Dr. Kemal ÇORAPÇIOĞLU

Phone: 0212 252 1600 / 326

Address:
Mimar Sinan Fine Arts University
Meclis-i Mebusan Caddesi 34427, Findikih İstanbul

In the frame of our building physics and materials program, it is aimed to provide knowledge and to encourage research in the field of the formation of building shell and constructional comfort in terms of ecology and building physics conditions.

TEACHING STAFF

FULL TIME

Prof. Dr. Kemal ÇORAPÇIOĞLU

Asst. Prof. Dr. Cüneyt DİRİ

Asst. Prof. Dr. Çiğdem TEKİN

PART TIME

Prof. Dr. Murat ERİŞ
Bachelor/Master: D.G.S.A 1967; PhD: İTÜ 1972.

Prof. Dr. Halit Yaşa ERSOY
Bachelor/Master: D.G.S.A 1979; PhD: İTÜ 1985.

Assoc. Prof. Dr. Ahmet GÜLEÇ

Asst. Prof. Dr. Genco BERKİN

Asst. Prof. Dr. Ali ÇİŞÇEK

Inst. Dr. Ünver ANIL
# MASTER PROGRAMME

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<th>SEMESTER</th>
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### DOCTORATE PROGRAMME

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**ELECTIVE COURSES**

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<th>1. SEMESTER</th>
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<td>YF 504 Properties and Protection Techniques of Material Surfaces</td>
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<td>YF 512 Experimentation and Measurement Techniques</td>
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COURSE CONTENTS

REQUIRED COURSES

YF 500 SEMINAR
2 Hours/Week, non-credit, 4 ECTS credits

Objective / Contents: It is aimed to educational studies shall be carried out pertaining to class topics of the program with participation of experts in construction physics and that of students.

Pre-requisite:

Assessment Methods: written exam/assignment

Recommended Resources:

Teaching Staff: Prof. Dr. Murat ERİÇ

YF 591 PROJECT
3 Hours/Week, theory, 3 Credits, 10 ECTS Credits

Objective / Contents: It is aimed to improving the architectural design skill of the student with regards to constructional physics criteria.

Pre-requisite:

Assessment Methods: written exam/assignment

Recommended Resources:

Teaching Staff: Prof. Dr. Murat ERİÇ, Prof. Dr. Halit Yaşa ERSOY, Prof. Dr. Kemal ÇORAPÇİOĞLU

YF 592 PROJECT
3 Hours/Week, theory, 3 Credits, 10 ECTS credits

Objective / Contents: It is aimed to improving the architectural design skill of the student with regards to constructional physics criteria.

Pre-requisite:

Assessment Methods: written exam/assignment

Recommended Resources:

Teaching Staff: Prof. Dr. Murat ERİÇ, Prof. Dr. Halit Yaşa ERSOY, Prof. Dr. Kemal ÇORAPÇİOĞLU
ELECTIVE COURSES

YF 501 ENVIRONMENTAL EFFECTS IN TERMS OF BUILDING PHYSICS
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits

Objective / Contents: Introduction to physical environment control-building physics; Deformation in the building envelope-mechanical problems and material selection; Earthquake in terms of building physics and evaluation of material use; Thermal expansion in terms of building physics; Thermal permeability in terms of building physics; Water problems in terms of building physics; Moisture problems in terms of building physics; Sound in terms of building physics (space acoustics); Sound permeability in terms of building physics (noise); Utilizing solar energy-heating and lighting; Protection from solar energy and measures taken in the building envelope; Fire problems in terms of building physics; Corrosion, pollution and organic damage in the building envelope.

Pre-requisite:-
Assessment Methods: written exam/assignment


YF 502 BUILDING BIOLOGY
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits

Objective / Contents: Introduction, definitions; Building biology concept and space; Thermal comfort in space in terms of building physics; Moisture in terms of building physics; Acoustics in terms of building physics; Lighting in space in terms of building physics; Inner air quality in space in terms of building physics; Electric, magnetic areas and radiation in terms of building physics; Relationship between human health and material; Environmental effects in terms of building physics; Examination of the examples; Regulations and standards in Turkey within the framework of building biology. Pre-requisite:-
Assessment Methods: written exam/assignment

YF 503 THERMAL PROBLEMS AND THERMAL PROTECTION IN THE BUILDING ENVELOPE
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits

Objective / Contents: General information about heat and temperature. Thermal comfort and the factors affecting it, heat and temperature, heat capacity and thermal expansion, as a matter of building physics, heat conduction, and the factors affecting it. The calculation of heat transfer on the building shell and drawing the heat flow diagram. The location of the heat insulation on the building shell, and looking over samples, estimation of the heat loss of the buildings and annual energy requirement. Air moisture, the relation between air moisture and heat, relative humidity, condensation, vapor diffusion on building shell, and the factors affecting it. Drawing the vapor diffusion graph and investigation of condensation according to TS 825, the analysis of heat flow, vapor diffusion and condensation according to different type and location of layers.

Pre-requisite:-
Assessment Methods: written exam/assignment

Recommended Resources: TS 825.
YF 505 ACOUSTICS IN BUILDINGS
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits

Objective / Contents: Reminding the basic concepts about sound, definitions and properties related to sound, the parameters affecting room acoustics, and their relations with architecture and building materials. Introduction to the acoustic materials. Acoustic arrangements for different spaces and discussions on the samples.

Pre-requisite:

Assessment Methods: written exam/assignment

Recommended Resources:
- ERİÇ Murat, Yapı Fiziği ve Malzemeleri, Literatür Yayınları, İstanbul.
- William J.Cavanaugh , Joseph A.Wilkes, Architectural Acoustics / Principles And Practice, Wiley-Academy, 1999
- TSE, TÜS EN, TS ISO, ASTM, DIN.

Teaching Staff: Prof. Dr. Halit Yaşa ERSOY

YF 506 SPECIAL CONCRETE AND ITS TECHNOLOGY
2 Hours/Week, theory, 2 Credits, 3 ECTS credits

Objective / Contents: Concrete and concrete technology; Normal concrete, properties, technology; Special concrete, types, general introduction, definitions; Concrete binders and aggregates; relationship to properties; High performance concrete; components and production; Properties of high performance concrete; and its use in application; Lightweight concrete; primary types, components and production; Properties of lightweight concrete and its use in application; Load-bearing lightweight concrete; semi-lightweight concrete and properties; Position and role of concrete in heat and sound transmission control; Concrete used in application for alternative purposes; types and properties; Evaluation of concrete with respect to environment and sustainability, recycling; General evaluation of special concrete and future approaches.

Pre-requisite:

Assessment Methods: written exam/assignment

Recommended Resources:
- POSTACIOĞLU, B., Yapı Malzemeleri Dersleri, Bağlayıcı Maddeler, Agrega, Beton, İTÜ Yayınları, Sayı:1011.
- AKMAN, M.S., Yapı Malzemeleri, İTÜ Yayınları, Sayı:1408.
- ERSOY, H. Y., Hafif Beton Ders Notları " Basılmamış Ders Notları, MSGSÜ TSE, EN, DIN, ASTM, BS.

Teaching Staff: Prof. Dr. Halit Yaşa ERSOY

YF 508 WATER EFFECTS IN BUILDINGS
2 Hours/Week, theory, 2 Credits, 3 ECTS credits

Objective / Contents: Definition and properties of water; Phases of water – phase transition of water; Behaviour of water in the solid phase; Behaviour of water in the liquid phase; Behaviour of water in the gas phase; Water damage in materials; Protection from water effects; Protection from water effects in materials; Getting the material impermeable; Surface impermeability; Protection from water effects in buildings; Waterproofing principles in
foundations, the building envelope and roofs; Waterproofing in pools.

Pre-requisite:
Assessment Methods: written exam/assignment

Recommended Resources:

Teaching Staff: Prof. Dr. Kemal ÇORAPÇIOĞLU

YF 509 FIRE IN TERMS OF BUILDING PHYSICS
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits

Objective / Contents: General comments; Definitions and historical development; Building-fire relationship; Material-fire relationship; Fire safety instructions; Active fire protection; Passive fire protection; Protection methods of the loadbearing structure; Fire regulations and standards and their development; examination of the statistics and evaluation of the regulations; Examinations of buildings and fires; Fire insulation and experiments.

Pre-requisite:
Assessment Methods: written exam/assignment

Recommended Resources:
ERIÇ, M., Yapı Fiziği ve Malzemesi, Literatür Yayınları, 376s.

Teaching Staff: Prof. Dr. Halit Yaşa ERSOY

YF 511 CORROSION IN BUILDINGS
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits

Objective / Contents: General material definitions; Atomic structure and bonds; Properties of crystal structure, structures pertaining to metals, organic and ceramic materials; Linear defects, dislocation and its role in atomic sliding, surface defects; Mechanical-physical properties and chemical properties of materials; Solid solution concept, dual phase diagrams; Fe-C phase diagram and other important dual phase diagrams; Abrasion and corrosion; Relationship between thermal processes, ferrous and non-ferrous metals and corrosion; Relationship between ceramic and polymer materials and corrosion; Relationship between composite materials and corrosion; Methods of protection from corrosion.

Pre-requisite:
Assessment Methods: written exam/assignment

Recommended Resources:
SHACKELFORD, J.F., McMillan
YF 512 EXPERIMENTATION AND MEASUREMENT TECHNIQUES
2 Hours/Week, theory, 2 Credits, 3 ECTS credits

Objective / Contents: Introduction to the issue, general, quantity and quality; Experiments and measurements, concepts, equipments; Destructive and non-destructive tests, methods; Tests related to the physical properties; Laboratory work; Tests related to the mechanical properties; Laboratory work; Assessment of the test results-methods; Statistical methods-fault, deviation; Analysis of variance-about hypothesis tests; General evaluation.

Pre-requisite:

Assessment Methods: written exam/assignment

Recommended Resources:
TS 2630 “İstatistik-Verilerin İstatistiksel Yorumu – Ortalama ve Varyasyonlara İlişkin Tahmin Teknikleri ve Testler”.
ERSOY H.Y., “ Tahribatsız Deney Yöntemleri Ders Notları” (Yayımlanmamış).

Teaching Staff: Prof. Dr. Kemal ÇORAPÇIOĞLU

YF 513 ANALYSES OF HISTORIC MORTARS AND PLASTERS
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits

Objective / Contents: Introduction (general definitions and necessity); History of mortars and plasters; classification of mortars and plasters; Binders of mortars and plasters; Fillers of mortars and plasters; Additives in mortars and plasters; Analysis of mortars and plasters; Reproduction and accordance tests.

Pre-requisite:-

Assessment Methods: written exam/assignment


Teaching Staff: Assoc. Prof. Dr. Ahmet GÜLEÇ

YF 514 WOOD CONSERVATION
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits
Objective / Contents:
Pre-requisite:-
Assessment Methods: written exam/assignment
Recommended Resources:
Teaching Staff: Assoc. Prof. Dr. Ahmet GÜLEÇ

YF 520 METALS AND SHAPING PROCESSES
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits
Objective / Contents: Ferrous metals; Behaviour of ferrous metals under thermal effects; Non-ferrous metals; Shaping processes – casting, welding, plastic shaping (metal plastering), metal sanding, eliminating metal filings; Steel structures.

Pre-requisite:-
Assessment Methods: written exam/assignment
UKUENGİN, B., Mimari Metaller, Birsen Yayını, 2006.
TSE, EN, DIN, ASTM, BS.
Teaching Staff: Inst. Dr. Ünver ANIL

YF 521 ASSESSMENT METHODS OF MATERIAL DATA
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits
Objective / Contents: Concepts of the probability and statistics, data types and data collection techniques and sampling. Definition and classification of the tests of materials, arrangement of the statistical data, frequency distributions, graphical presentations, listing and summarizing numerical data, mean, variance and standard deviation. theory of probability, probability distributions, expectations and decisions, sampling and sampling distributions, tests of hypothesis, regression and correlation.
Pre-requisite:-
Assessment Methods: written exam/assignment
YF 523 FIBERS, REINFORCEMENTS AND TEXTILES
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits

Objective / Contents: Fibers, definition and classification, brief history; Herbal based natural fibers, their production processes, forms of usage; Artificial organic fibers, sorts, production processes, properties, forms of usage; Polypropylene fibers, production processes, properties, forms of usage; Aramid fibers (kevlar), production processes, properties, forms of usage; Polyethylene fibers, production processes, properties, forms of usage; Nylon fibers, production processes, properties, forms of usage; Glass fibers, production processes, properties, forms of usage; Asbestos fibers, production processes, properties, forms of usage; Steel fibers, production processes, properties, forms of usage, examples; Fiber-reinforced composite material properties; Materials used in fiber-reinforced composite material (matrix) production and their properties; Nanotechnology in fiber production, application process and properties it provides

Pre-requisite:-
Assessment Methods: written exam/assignment


YF 524 USE OF GLASS IN ARCHITECTURE
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits

Objective / Contents: Introduction to glass building materials and their types; Properties of glass building materials; Chemical properties of glass; Introduction to glass blend materials; Ionic factors in the composition of glass; Coloring mechanisms of glass; Introduction to heat radiation and solar control glass; Spectral permeability and absorption; Physical properties of glass; Use of structural glass in architecture; Characteristic of micro-hardness; Effects forming in glass in the presence of atmospheric conditions; Use of glass in architecture and application details.

Pre-requisite:-
Assessment Methods: written exam/assignment

Recommended Resources: HARPER, A. C. (ed), Handbook of Ceramics,

Teaching Staff: Prof. Dr. Kemal ÇORAPÇIOĞLU

YF 525 ECOLOGICAL MATERIALS
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits
Objective / Contents: Ecology, sustainability – basic concepts; Definition and properties of physical environment; Evaluation of physical environmental data with respect to ecological aspects; relations between physical environmental data – design – ecological material use: Relations between ecology and architecture; Relations between ecology – design – material: Principles of ecological material use in architecture; Evaluation of contemporary material sources; Concept of alternative materials; Sources and production of alternative materials Properties and usage areas of alternative materials; Evaluation of alternative material use in architecture with respect to sustainability; Ecology in terms of characteristics of architectural space in architectural design.
Pre-requisite:-
Assessment Methods: written exam/assignment
Recommended Resources:
TEZCAN,Y., Sıcak Yapı Elemanlarının Kondansasyon Kontrolü Hesaplarında Kullanılacak Dış Sınırlar Şartları ve Peryotlarının Belirlenmesi İçin Yeni Bir Metod, İTÜ Mim Fak,
1970.

**Teaching Staff:** Asst. Prof. Dr. Ali ÇiÇEKN

**YF 527 SURFACE COATING**
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits

**Objective / Contents:** Inorganic and organic surface coatings, their general properties, components, adhesion, vapour permeability, water absorption of surface coatings. The concept of climate, the effects of physical environment, solar radiation, heat, water and other climate factors. The failures of the surface coatings under the effects of physical environment, the effect of solar radiation, degradation, and it’s mechanisms, the effects of solar radiation, heat and water all together, the adhesion loss of the surface coatings.

**Pre-requisite:**

**Assessment Methods:** written exam/assignment

**Recommended Resources:**
TSE, TS EN, TS ISO, ASTM, DIN, Teknik şartnameler.

**YF 528 NATURAL STONES IN BUILDINGS AND THEIR CONSERVATION**
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits

**Objective / Contents:** Information about the Earth's Crust; Natural Stones: Eruptive rock; Sedimentary rock; Metamorphic rock; Structural properties of natural stones; Deterioration in stones; Conservation of natural stones; Historical development of stone conservation and mistakes done; Planning of building conservation; Cleaning; Stone integration; Painting of stones.

**Pre-requisite:**

**Assessment Methods:** written exam/assignment

**Recommended Resources:**
ASHURST, J., DIMES, F., Sone in Building, The Architectural Press Ltd.
YF 529 PLASTIC BUILDING MATERIALS
2 Hours/Week, theory, 2 Credits, 3 ECTS Credits

Objective / Contents: Plastic building material, definition and classification, brief history; Properties of plastic material, thermoplastic and thermoset plastics, properties; plastic material technologies: additives mixed into plastic materials; Thermoplastics, chemical and physical, physicochemical properties; Thermoplastics (liquid coatings), forms of usage in buildings, examples and detail solutions; Thermosets, chemical and physical, physicochemical properties; Thermosets, forms of usage in buildings, examples and detail solutions; Reinforced plastics, forms of usage, examples; New plastic composites, applications, examples; Experimental methods and standards for plastic materials; Visual contribution of plastic material to the building, examples.

Pre-requisite:
Assessment Methods: written exam/assignment

DIVISION OF INTERIOR ARCHITECTURE

Division Head: Prof. Onur ALTAN

Tel: 0212 252 1600 / 269

Address:
Mimar Sinan Fine Arts University
Meclis-i Mebusan Caddesi 34427, Fındıklı İSTANBUL

The curriculum of Interior Architecture combines the arts with technical and scientific studies in order to give students a well-rounded education. As the department is cognizant of modern trends in interior architecture and the implications of new technologies, it aims to provide a balanced education between the artistic and technological aspects of the profession. The graduate program is structured to provide specialization in various areas that require expertise in the Interior Architecture discipline in addition to scholarly inquiry and research skills. Students are guided through an intensive, concentrated program that is based primarily on established educational objectives that the students have selected for themselves. The courses are chosen according to the areas of interest related to issues of interior architectural design. Graduate students are expected to be highly motivated, technically competent and prepared to deal with ideas at a professional level.

TEACHING STAFF

FULL TIME

Prof. Onur ALTAN
Bachelor: D.G.S.A. 1968; Master: Columbia University 1970; Proficiency in Art: MSÜ.

Asst. Prof. Dr. Saadet AYTIS
Bachelor /Master: MSÜ, 1986; PhD:
MSÜ, 1996.

**Asst. Prof. Dr. İpek FİTOZ**

**Asst. Prof. Şebnem UZUNARSLAN**

**Asst. Prof. Dr. Senem ONUR**

**Asst. Prof. Bahar Ülker KAYA**

**Asst. Prof. Burak TANSEL**

**Asst. Prof. Didem BEDÜK TUNCEL**

**Asst. Prof. Atilla SÖĞÜT**

**Asst. Prof. Emre KAVUT**

**Asst. Prof. Şenay BODUROĞLU**

**Asst. Prof. Osman ARAYICI**

**Asst. Prof. Burçin Cem ARABACIOĞLU**

**PART TIME**

**Prof. Oya BOYLA**

**Prof. Nuran YENER**

**Inst. İnci DURAK**
# MASTER PROGRAMME

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<th>2. SEMESTER</th>
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# PROFICIENCY IN ART PROGRAMME

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## ELECTIVE COURSES

### 1. SEMESTER

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>IM 503</td>
<td>Furniture and Space From Middle Age till 19th Century</td>
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<tr>
<td>IM 505</td>
<td>Digital Spatial Design Models</td>
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<td>IM 506</td>
<td>Researching of furniture solutions on space organizations</td>
<td>2</td>
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<tr>
<td>IM 509</td>
<td>Materials and Application of Materials in Interior Architecture</td>
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<td>IM 511</td>
<td>Contemporary Installations in Interior Architecture</td>
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<td>IM 519</td>
<td>Interior Space Organization in Mobile Houses</td>
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<td>IM 523</td>
<td>Formation of Identity and Perception in Interior Design</td>
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<td>IM 527</td>
<td>Methods of Decoration on Construction Supplies</td>
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<td>IM 530</td>
<td>Information / Communication Age and Design</td>
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<tr>
<td>IM 531</td>
<td>Interiors and Furniture in the Houses of Early Republican Period</td>
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<td>IM 534</td>
<td>Furniture in Design Activities</td>
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<td>IM 535</td>
<td>Techniques of Painting</td>
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<td>IM 536</td>
<td>Factors That Determine Perception Of Space</td>
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<td>IM 555</td>
<td>Display Design As An Informative Affair In Commercial Spaces</td>
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### 2. SEMESTER

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<td>Efficient Factors on Forming Furniture</td>
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<td>IM 502</td>
<td>Illumination in Interior Architecture</td>
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<td>IM 504</td>
<td>Technologic Efficient of the Kitchen Design</td>
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<td>IM 505</td>
<td>Digital Spatial Design Models</td>
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<tr>
<td>IM 510</td>
<td>Furniture Designing</td>
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<td>IM 523</td>
<td>Formation of Identity and Perception in Interior Design</td>
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<td>IM 524</td>
<td>Selection of Materials in Interior Design</td>
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<td>IM 526</td>
<td>Methods of Decoration on Wood</td>
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<td>IM 528</td>
<td>Interior Architectural Matters in High Rise Buildings</td>
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<td>IM 530</td>
<td>Information / Communication Age and Design</td>
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<td>IM 531</td>
<td>Interiors and Furniture in the Houses of Early Republican Period</td>
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<tr>
<td>IM 533</td>
<td>Universal Design Principles</td>
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<td>Advanced Techniques of Expression</td>
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<td>Factors That Determine Defining Space</td>
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<td>IM 592</td>
<td>Project</td>
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COURSE CONTENTS

REQUIRED COURSES

IM 500 SEMINAR
1 hours/week, non-credit, 2 ECTS credits
Objective / Contents: Assessment Methods: Searching the interiors at important architectural buildings which have different functions and analysing the result.
Pre-requisite: -
Assessment Methods: written exam and assignment
Recommended Resources:
Teaching Staff: Prof. Oya BOYLA

IM 591 PROJECT
8 hours/week, practice, 4 credits, 10 ECTS credits
Objective / Contents: This is a course for the making of a professional career that largely depends on the practical application of a project of research which is put together in order to arrange the interior area of a structure and to select the items necessary for properly designing that interior. This discipline requires the subject of the projects to vary and get broader in content as years of education go forward.
Pre-requisite: -
Assessment method: written exam and assignment
Recommended Resources: All the architectural and interior architectural projects.
Teaching Staff: Prof. Onur ALTAN, Prof. Nuran YENER, Asst. Prof. Dr. Saadet AYTIS, Asst. Prof. Dr. Senem ONUR, Asst. Prof. Burak TANSEL, ASST. Prof. Dr. İpek FİTOZ, Asst. Prof. Şebnem UZUNARSLAN, Asst. Prof. Bahar Ülker KAYA, Asst. Prof. İ. Emre KAVUT, Asst. Prof. Didem BEDÜK TUNÇEL, Asst. Prof. M. Atilla SÕĞÕ, Asst. Prof. Şenay BODURÇLU, Asst. Prof. Osman ARAYICI, Asst. Prof. Burçin Cem ARABACIOĞLU
ELECTIVE COURSES

IM 501 EFFICIENT FACTORS ON FORMING FURNITURE
2 hours/week, 2 credits, 5 ECTS credits

Objective / Contents: Historical development of furniture. Effect of structure and material to form the furniture and technological development.

Pre-requisite: -

Assessment Methods: written exam / assignment

Recommended Resources: Lecture Notes

Teaching Staff: Asst. Prof. Atilla SÖÇÜT

IM 502 ILLUMINATION IN INTERIOR ARCHITECTURE
2 hours/week, 2 credits, 5 ECTS credits

Objective / Contents: Giving the necessary information to the students of interior design, the data about installations with respect to establishment of cooperations with the technical staff responsible from application, subjects concerning the type of supplies used, techniques of installation, and variety of materials are also discussed.

Pre-requisite: -

Assessment Methods: presentation / assignment


Teaching Staff: Asst. Prof. Dr. İpek FİTOZ

IM 503 FURNITURE AND SPACE FROM MIDDLE AGE TILL 19.TH CENTURY
2 hours/week, theory, 2 credits, 5 ECTS credits

Amaç / İçerik: Design in interior architecture and furniture between the years of 1450 and 1910.

Pre-requisite: -

Assessment Methods: written exam / assignment

Recommended Resources: Teaching Staff: Prof. Oya BOYLA

IM 504 TECHNOLOGIC EFFICIENT OF THE KITCHEN DESIGN
2 hours/week, 2 credits, 5 ECTS credits

Objective / Contents: The technology used in residence kitchens can be considered as a representation of contemporary life. In our century daily life has a fast and multi-functional structure. From this point of view we can observe a similar tempo and function spectrum. Today, while doing something, hurrying for something we use that technology.

Pre-requisite: -

Assessment Methods: assignment


Teaching Staff: Asst. Prof. Emre KAVUT
IM 505 DIGITAL SPATIAL DESIGN MODELS
2 hours/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: The following topics will be studied during the course: Results of digital media: new concepts in theory, methods and praxis, An introduction to digital design thinking, The change of design process by usage of digital media, New conceptual and theoretical framework, A schema of components, relationships and properties of design process, Analysis of digital design models in new conceptual and theoretical framework, New roles for today’s spatial designers as a result of digital design, Interleaved, collaborative spatial design concept, Interactive customisations in space by digital technologies and design during building lifetime, Virtual places in digital media

Pre-requisite: -
Assessment Methods: assignment

Recommended Resources:
ARABACIOĞLU, B. C., Akıllı bina sistemleri ile etkileşimli kişiselleşebilir iç mekan kavramı ve geleceğin akıllı iç mekan tasarımını süreci için bir model önerisi, Sanatta yeterli tezi, MSGSÜ Fen Bilimleri Enstitüsü, İstanbul 2005.
JONSON, B., Design ideation: the conceptual sketch in the digital age,

Teaching Staff: Asst. Prof. Burçin Cem ARABACIOĞLU

IM 506 RESEARCHING OF FURNITURE SOLUTIONS ON SPACE ORGANIZATIONS
2 hours/week, theory, 2 credits, 6 ECTS credits

Objective / Contents: The interaction between space and the furniture providing functionality in space, and to examine the contribution to spatial organization. Effect of the intercourse of space and furniture.

Pre-requisite: -
Assessment Methods: written exam /assignment

Recommended Resources: Lecture notes

Teaching Staff: Asst. Prof. Atilla SÖĞÜT

IM 509 MATERIALS AND APPLICATION OF MATERIALS IN INTERIOR ARCHITECTURE
2 hours/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: Aiming the student to get acquainted with different materials and their differing traits, while performing their professional business. Giving technical information to the students of interior design department for their after graduation practises on the subjects of materials application in order to achieve a sense of collaboration while working with the technical personnel
doing the actual practical application.

**Pre-requisite:** -

**Assessment Methods:** written exam and assignments

**Recommended Resources:** YENER, N. “Gelişim Süreci İçinde Malzeme, Yapım Yönetimi, Biçim İlişkisi” Yeterlilik Tezi.


**Teaching Staff:** Prof. Nuran YENER

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**IM 510 DESIGNING THE FURNITURE**

2 hours/ week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** This is a career based course that studies the possible designing activities on furniture in which return is related with all the areas of interior design; studying designing methods, essentials of contemporary design and its meaning, systematics of creation of the form while aiming to motivate both theoretically and practically the creative activities.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Dr. Senem ONUR

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**IM 511 CONTEMPORARY INSTALLATIONS IN INTERIOR ARCHITECTURE**

2 hours/ week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Giving the necessary information to the students of interior design, the data about installations with the technical staff responsible from application, subjects concerning the type of supplies used, techniques of installation, and variety of materials are also discussed.

**Pre-requisite:** -

**Assessment Methods:** presentation / assignment

**Recommended Resources:** FİTOZ , İ., “Mekan Tasarımında Belirleyici Bir Etken Olarak Yapay Işık İçin Aydınlatma Tasarımı Modeli” Doktora Tezi.

**Teaching Staff:** Asst. Prof. Dr. İpek FİTOZ

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**IM 519 INTERIOR SPACE ORGANISATION IN MOBILE HOUSES**

2 hours/ week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Giving the necessary information to the students of interior design, the data about installations with the technical staff responsible from application, subjects concerning the type of supplies used, techniques of installation, and variety of materials are also discussed.

**Pre-requisite:** -

**Assessment Methods:** presentation / assignment

**Recommended Resources:** Lecture Notes

**Teaching Staff:** Prof. Onur ALTAN

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**IM 523 FORMATION OF IDENTITY AND PERCEPTION IN INTERIOR DESIGN**

2 hours/ week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The term perception, theoretical approaches on perception and the perception of place will be analyzed.

**Pre-requisite:** -
**Assessment Methods:** written exam / assignment

**Recommended Resources:** MEISS, P. “Elements of Architecture from Form to Place”, 1990
CHING, F. “Mimarlık, biçim, mekan ve düzen”, YEM, 2002
GÜRER, L., “Temel tasarım”, 2004

**Teaching Staff:** Asst. Prof. Bahar ÜLKER KAYA

**IM 524 SELECTION OF MATERIALS IN INTERIOR DESIGN**
2 hours/ week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The main objective of this course is to inform the possible candidates of interior design about bringing into contact the facts of structure itself and designing the interior plus selecting the material to be used in that building, finding ways of modification-alteration and supplement without altering the constructive characteristics of the structure, giving information on the subjects of construction, material, designing and making a synthesis of them all.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:** YENER, N. “Özellikten Biçime” Profesörlik çalışması, 2000.

**Teaching Staff:** Prof. Nuran YENER

**IM 526 METHODS OF DECORATION ON WOOD**
2 hours/ week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Techniques of gold foil on wood in Ottoman style and renovations, nacre marquetry on wood and renovations, original lacquer varnishing and renovations, original shellac varnishing and renovations.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:** EUROPEO, C., “Venedik Ders Notları”.
ZILLER, M., “Centro Europeo”.

**Teaching Staff:** Inst. İnci DURAK

**IM 527 METHODS OF DECORATION ON CONSTRUCTION SUPPLIES**
2 hours/ week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Techniques of gold foil several ages and renovations, plaster molding ornamenting a ceiling, stucco, stained glass made with gypsum.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:** EUROPEO, C., “Venedik Ders Notları”.
ZILLER, M., “Centro Europeo”.

**Teaching Staff:** Inst. İnci DURAK

**IM 528 INTERIOR ARCHITECTURAL MATTERS IN HIGH-RISE BUILDINGS**
2 hours/ week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Questions on the effects of vertical circulation in high buildings, climatizations, illumination and other installations, and electrical,
electronical security systems in interior space design.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:** AYTIS, S., “Yüksek Binaların Yapım Kriterleri ve Bu Kriterlerin İstanbul’dan Dört Örnek Üzerine Uygulamah Analizi”, Doktora Tezi.

**Teaching Staff:** Asst. Prof. Dr. Saadet AYTIS

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**IM 530 INFORMATION / COMMUNICATION AGE AND DESIGN**

2 hours/ week, 2 credits, 5 ECTS credits

**Objective / Contents:** This course aims to study the design of the era starting with the extensive usage of computers in the 70’s. All the architectural and design movements in this time and their effects on interior design are studied decade by decade by the light of social, economical and cultural events that took place in the world. By this way, the ability to make projections about how the interiors will be designed with the future technologies will be established.

**Pre-requisite:** -

**Assessment Methods:** assignment

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Didem BEDÜK TUNCEN

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**IM 531 INTERIORS AND FURNITURE IN THE HOUSES OF EARLY REPUBLICAN PERIOD**

2 hours/ week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The effects of changes from the beginning of the republican period on interior spaces, house types of the period, general spatial properties of period houses, defining factors in the space, properties of the period furniture, factors effecting the choice of furniture

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**
- BOZDOĞAN, S. “Modernizm ve Ulusun İnflaası (Erken Cumhuriyet Türkiye’sinde Mimari Kültür)”, Metis Yayınları.

**Teaching Staff:** Asst. Prof. Şebnem UZUNARSLAN

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**IM 533 UNIVERSAL DESIGN PRINCIPLES**

2 hours/ week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The great changes of today’s society stresses importance to the universally useful product and environment design approaches. Universal design is a user based approach to design including every human being, not only the handicapped. The main purpose expressed plainly in the definition and application of universal design is this: The products, buildings and environments designed should have equal usage conditions for all user groups that have different dimensions and abilities from each other.

**Pre-requisite:** -
**Assessment Methods:**
assignment/presentation

**Recommended Resources:**
BODUROĞLU, Ş. “Konutlarda Evrensel Tasarım Kavramı ve Örnekler Üzerinde Analizi”, Sanatta yeterlik tezi, MSGSÜ.

**IM 534 FURNITURE IN DESIGN ACTIVITIES**
2 hours/ week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Elements within the boundaries of the definition of furniture in relation to building areas are discussed in liaison with mankind-structure-arrangement, form and determining the main factors and main criteria for defining-designing, projecting and forming phases in addition aiming the achievement of creative results by way of the oretical and applicatory studies

**Pre-requisite:** -
**Assessment Methods:** written exam / assignment

**Recommended Resources:**
**Teaching Staff:** Asst. Prof. Şenay BODUROĞLU

**IM 535 TECHNIQUES OF PAINTING**
3 hours/ week, theory, 3 credits, 6 ECTS credits

**Objective / Contents:** Different ways of expression with the knowledge of color and paint. Several techniques of painting. Coloured scetches.

**Pre-requisite:** -
**Assessment Methods:** Assignments

**Recommended Resources:** TANSEL , B., “Sanat Kavramları Ders Notları”

**Teaching Staff:** Asst. Prof. Burak TANSEL

**IM 536 ADVANCED TECHNIQUES OF EXPRESSION**
3 hours/ week, theory, 3 credits, 6 ECTS credits

**Objective / Contents:** To build up artistical and colourful scetches of space with using several techniques in a fast way. Drawing coloured perspectives, plan, sections and details.

**Pre-requisite:** -
**Assessment Methods:** assignment

**Recommended Resources:**
**Teaching Staff:** Asst. Prof. Burak TANSEL

**IM 555 FACTORS THAT DETERMINE PERCEPTION OF SPACE**
4 hours/ week, practice, 3 credits, 6 ECTS credits

**Objective / Contents:** conceiving the factors that determine perception of space.

**Pre-requisite:** -
**Assessment Methods:** assignment

**Recommended Resources:** ARAYICI, O., Mekann Algılanması Belirleyen Faktörler, y. lisans tezi MSGSÜ Fen Bilimleri Enstitüsü, İstanbul 2001.
ARAYICI, O., İnanıslarım Mekann Betimlenmesi Üzerindeki Etkileri,
IM 556 FACTORS THAT DETERMINE DEFINING SPACE
4 hours/ week, practice, 3 credits, 6 ECTS credits
Objective / Contents: factors on defining space and the importance of those in the relations between design-designer-user.
Pre-requisite: -
Assessment Methods: assignment
Teaching Staff: Asst. Prof. Osman ARAYICI

IM 557 DISPLAY DESIGN AS AN INFORMATIVE AFFAIR IN COMMERCIAL SPACES
4 hours/ week, practice, 3 credits, 6 ECTS credits
Objective / Contents: Design, space, spatial design, classification of spaces, commercial buildings, commercial spaces, space focused, product focused communication in commercial spaces, partial design exclusively for product display, technical and aesthetical principles in product display.
Pre-requisite: -
Assessment Methods: assignment
Recommended Resources: MORENO, S. The Culture of Shop Window

IM 592 PROJECT
8 hours/ week, practice, 4 credits, 10 ECTS credits
Objective / Contents: This is a course for the making of a professional career that largely depends on the practical application of a project of research which is put together in order to arrange the interior area of a structure and to select the items necessary for properly designing that interior. This discipline requires the subject of the projects to vary and get broader in content as years of education go forward.
Pre-requisite: -
Assessment method: written exam / assignment

Recommended Resources:
Teaching Staff: Prof. Onur ALTAN, Prof. Nuran YENER, Asst. Prof. Dr. Saadet AYTIS, Asst. Prof. Dr. Senem ONUR, Asst. Prof. Burak TANSEL, Asst. Prof. Dr. İpek FİTOZ, Asst. Prof. Şebnem UZUNARSLAN, Asst. Prof. Bahar Ülker KAYA, Asst. Prof. İ. Emre KAVUT, Asst. Prof. Didem BEDÜK TUNCEL, Asst. Prof. M. Atilla SÖĞÜT, Asst. Prof. Şenay BODUROĞLU, Asst. Prof. Osman ARAYICI, Asst. Prof. Burçin Cem ARABACİOĞLU
DIVISION OF URBAN AND REGIONAL PLANNING

Division Head:
Prof. Dr. Güzin KONUK

Phone : 0212 252 1600 / 298

Address:
Mimar Sinan Fine Arts University
Meclis-i Mebusan Caddesi 34427,
Fındıklı ĪSTANBUL

Department of City and Regional Planning offers a graduate program leading to degrees of Masters and PhD. The graduate program is composed of three sections to enable specialization in the fields: Urban Planning (UP), Urban Design (UD), Urban Conservation and Renewal (UCR) and of Doctorate Program. The graduate program serves a heterogeneous group of students with varied educational backgrounds as city planners, architects, landscape architects. Students with backgrounds in law, economics and geology are also accepted to the graduate program after meeting the conditions of preparation program. The graduate program offers a variety of courses; theoretical lectures, preliminary planning and planning practices, seminar programs and workshops.

TEACHING STAFF

FULL TIME

Prof. Dr. Aykut KARAMAN

Prof. Dr. Güzin KONUK

Assoc. Prof. Dr. Güzin KAYA

Assoc. Prof. Dr. Gülfen ÖZAYDIN
Assoc. Prof. Dr. Fatma ÜNSAL

Assoc. Prof. Dr. Arzu KOCABAŞ

Asst. Prof. Dr. F. Dilek AKTÜRK

Asst. Prof. Dr. Bilge ULUSAY ALPAY

Asst. Prof. Dr. Pelin GÖKGÜR

Asst. Prof. Dr. M. Teoman TEKKÖKOĞLU

Asst. Prof. Dr. Hürrüyet ÖGDÜL

Asst. Prof. Dr. A. Erdem ERBAŞ

Asst. Prof. Dr. M. Turgay GÖKCEN

Asst. Prof. Dr. Pelin GÖKGÜR

Asst. Prof. Dr. Binnur ÖKTEM

Asst. Prof. Dr. Kevser ÜSTÜNDAĞ
Asst. Prof. Dr. Dilek ERDEN ERBEY

Asst. Prof. Dr. Erbatur ÇAVUŞOĞLU

PART TIME

Prof. Dr. İsmet Vildan ALPTEKİN

Prof. Dr. İsmet OKYAY

Prof. Dr. Turgut ÖZTAŞ

Prof. Dr. S. Akın ERYOLDASH

Prof. Dr. İsmet KILIÇARSLAN

Prof. Dr. Esin KÜNTHAY

Prof. Dr. Sümer GÜREL

Prof. Dr. Erol TÜMERTEKİN
Bachelor: İÜ, Ph.D: 1952.

Prof. Dr. Mike GIBSON

Prof. Dr. John LOVERING

Assoc. Prof. Dr. Sema ERGÖNÜL

Assoc. Prof. Dr. Adalet ALADA

Asst. Prof. Dr. Aslı ÖGÜT

Inst. Cengiz BEKTAŞ
Bachelor: Münih Teknik Üniversitesi, 1959.

Inst. Dr. Orhan DEMİR

Inst. OktaşEKİNCİ

Inst. Halit REFİŞ

Inst. Faruk GÖKSU

Inst. Dr. İclal Kaya ALTAY
# URBAN CONSERVATION AND RENEWAL PROGRAMME

Program Head: Assoc. Prof. Dr. Fatma ÜNSAL

## MASTER PROGRAMME

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## ELECTIVE COURSES

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<td>Sustainable Urban Regeneration</td>
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<td>Urban Regeneration in Turkey</td>
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<td>London: regeneration of a world city</td>
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<td>PLK 510</td>
<td>Changes in Cultural Environment and Local Identity</td>
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<td>PLK 516</td>
<td>Urban Regeneration: International Experiences</td>
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<td>Traditional Urban Fabrics</td>
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<td>Research Techniques in Urban Planning</td>
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COURSE CONTENTS

REQUIRED COURSES

PLK 501 METHODS AND TECHNIQUES OF URBAN CONSERVATION AND REGENERATION
3 hrs/week, project, 3 credits, 6 ECTS credits

Objective / Contents: The aim of this unit is to enable the student to understand interrelated policies of urban conservation and urban regeneration as an element of spatial planning within the context of EU harmonization and globalizations.

Pre-requisite: -
Assessment Methods: presentation / assignment


Teaching Staff: Assoc. Prof. Dr. Arzu KOCABAŞ

PLK 502 URBAN CONSERVATION AND RENEWAL STUDIO
4 hrs/week, theory, 4 credits, 8 ECTS credits

Objective / Contents:

PLK 503 URBAN CONSERVATION AND RENEWAL: CONSERVATION AND PRINCIPLES
3 hrs/week, theory, 3 credits, 6 ECTS credits

Objective / Contents: The unit aims to teach that necessity of loving historic cities that have immense knowledge and esthetical value is inevitable and compulsory to protect and develop natural and cultural assets and to identify the principles of related planning.

Pre-requisite: -
Assessment Methods: written exam


Teaching Staff: Asst Prof. Dr. Dilek ERDEN ERBEY
PLK 504 MODELS IN URBAN REGENERATION
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: The aim of the course is to make critical analysis of various urban regeneration projects chosen from different countries and Turkey, and is to discuss the possible models for Turkish context.

Pre-requisite: -
Assessment Methods: assignment / presentation

Recommended Resources:

Teaching Staff: Prof. Dr. Aykut KARAMAN

PLO 541 STUDIO OF MONITORING URBAN DEVELOPMENT
4 hrs/week, poractice, 4 credits, 8ECTS credits

Objective / Contents: The purpose of the practices to do researches in a given critical urban development area for monitoring the developments and defecting the trends in order to formulate concepts for action plans.

Pre-requisite: -
Assessment Methods: assignment / presentation

Recommended Resources:

Teaching Staff: Prof. Dr. Aykut KARAMAN (yürütücü), Prof. Dr. Güzin KONUK, Prof. Dr. İsmet OKYAY, Assoc. Prof. Dr. Fatma ÜNSAL, Asst. Prof. Dr. Teoman TEKKÖKOĞLU, Asst. Prof. Dr. Dilek ERDEN ERBEY, Assoc. Prof. Dr. Arzu KOCABAŞ

PLO 547 SEMINAR
2 hrs/week, theory, non-credit, 4 ECTS credits

Objective / Contents: Seminar is a common and a compulsory unit for all the students of Urban Planning (UP), Urban Design (UD), Urban Conservation and Renewal (UCR) Master Programs. In the seminar program there will be discussions on specific subjects that will support Master program courses.

Pre-requisite: -
Assessment Methods: attendance / discussions


Teaching Staff: Prof. Dr. Sümener GÜREL, Asst. Prof. Dr. Erbatur Çavuşoğlu
ELECTIVE COURSES

PLK 505 LONDON, REGENERATION OF A WORLD CITY
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: The aim of the unit is to develop a detailed understanding of current regeneration practice in London as a leading world city, with particular reference to the urban regeneration programmes that are accommodating the globally-driven expansion of central London, and to assess the relevance of the London experience for the situation in Istanbul as emerging world city.
Pre-requisite: -
Assessment Methods: written exam / presentation
Teaching Staff: Assoc. Prof. Dr. Arzu KOCABAŞ, Prof. Dr. Mike GIBSON

PLK 506 ASSESSMENT OF HISTORIC ENVIRONMENT AND CASE STUDIES FROM THE WORLD
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: The aim of this unit is to enable students to understand the evolving processes of the urban conservation and its multi-dimensional character as the key aspect of urban regeneration within the sustainability context of the 21. century.
Pre-requisite: -
Assessment Methods: paper /presentation
Teaching Staff: Asst. Prof. Dr. Dilek ERDEN ERBEY

PLK 510 CHANGES IN CULTURAL ENVIRONMENT AND LOCAL IDENTITY
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: Conflict between the tradition and modernization that leads to social and cultural erosion in the environment. Necessity for an
approach for the analysis of cultural environment and local identities of societies and urban space, to re-formulate them within the scope of urban policies. Analysis of rapid transformation of settlements as the consequence of balance between cultural values and tradition, and modernization; analysis of historical centers under the influence of different forces, and their conservation; evaluation of the effects of cultural transformation in historical urban space.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:** EKİNCİ, O., “Dünden Bugüne İstanbul Dosyaları”, Anahtar Kitaplar, Kent ve Çevre Dizisi, İstanbul 1995.


**Teaching Staff:** Inst. Oktay EKİNCİ

**PLK 514 SUSTAINABLE URBAN REGENERATION**

3 hrs/week, theory, 3 credits, 4 ECTS credits

**Objective / Contents:** The aim of this unit is to enable participants to understand the evolving concepts and practice of sustainable urban regeneration, in the context of European-wide attempts to move towards sustainable urban and regional development, but with particular reference to London and South-East London.

**Pre-requisite:** -

**Assessment Methods:** written exam/assignment

**Recommended Resources:** ARU

**Teaching Staff:** Assoc. Prof. Dr. Arzu KOCABAŞ, Prof. Dr. Mike GIBSON

**PLK 515 URBAN REGENERATION IN TURKEY**

3 hrs/week, theory, 3 credits, 4 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -

**Assessment Methods:** written exam/assignment

**Recommended Resources:** ARU

**Teaching Staff:** Prof. Dr. Güzin KONUK, Inst. Faruk GÖKSU
PLK 517 TRADITIONAL URBAN FABRICS
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents:
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources: ARU
Teaching Staff: Assoc. Dr. Güzin KAYA

PLO 542 RESEARCH TECHNIQUES IN URBAN PLANNING
2 hrs/week, theory, 2 credits, 4 ECTS credits
Objective / Contents:
Pre-requisite: -
Assessment Methods: assignment
Recommended Resources: “Sosyal Araşturma Metodları”
“Social Research”, Verlingen
Teaching Staff: Prof. Dr. Akm ERYOLDAS

PLO 544 NEW TECHNOLOGIES IN URBAN PLANNING AND DESIGN
2 hrs/week, theory, 2 credits, 4 ECTS credits
Objective / Contents:
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources:
Teaching Staff: Prof. Dr. Güzin KONUK

PLO 546 ISTANBUL AND IMMIGRATION
2 hrs/week, theory, 2 credits, 4 ECTS credits
Objective / Contents:
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources:
Teaching Staff: Inst. Dr. Nuran YAVUZ

PLO 548 URBAN MORPHOLOGY
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: Urban Morphology is taken as a field inquiry in Planning and Design. It is taken as an interactive products of the city in the socio-cultural, philosophical and political context as the ideas that played the leading roles in its conception from Antiquity to present.
Pre-requisite: -
Assessment Methods: assignment
ELLIN, N., “Postmodern Urbanism”, 1996
Teaching Staff: Prof. Dr. Aykut KARAMAN
environmental, social, cultural, land division factors and aesthetic considerations. A field study is done in town each year.

**Pre-requisite:** -

**Assessment Methods:**
assignment/presentation

**Recommended Resources:**

**Teaching Staff:** Prof. Dr. Aykut KARAMAN

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**PLO 550 ISTANBUL AND GLOBALIZATION**

2 hrs/week, theory, 2 credits, 4 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Prof. Dr. Güzin KONUK

---

**PLO 549 COMPUTER AIDED PLANNING AND DESIGN**

2 hrs/week, theory, 2 credits, 4 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Dr. Turgay GÖKÇEN
# URBAN PLANNING PROGRAMME

**Program Head:** Assoc. Prof. Dr. Fatma ÜNSAL

## MASTER PROGRAMME

### 1. SEMESTER

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COURSE CONTENTS

REQUIRED COURSES

PLP 502 URBAN PLANNING STUDIO
4 hrs/week, theory, 4 credits, 8 ECTS credits
Objective / Contents: In the lecture new approaches and concepts in urban planning theories will be examined.
Pre-requisite: -
Assessment Methods: Project / practice
Teaching Staff: Assoc. Prof. Dr. Fatma ÜNSAL, Asst. Prof. Dr. Hürriyet ÖGDÜL, Asst. Prof. Dr. Teoman TEKKÖKOĞLU, Asst. Prof. Dr. Kevser ÜSTÜNDAĞ

PLP 503 URBAN PLANNING THEORY AND TECHNIQUES
3 hrs/week, theory, 3 credits, 6 ECTS credits
Objective / Contents: In the lecture new approaches and concepts in urban planning theories will be examined.
Pre-requisite: -
Assessment Methods: assignment
Teaching Staff: Assoc. Prof. Dr. Akin ERYOLDAŞ

PLP 509 REFORMIST APPROACHES IN URBAN PLANNING
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: The current planning system is strongly affected by the fast and intense changes in all the environments that are in interaction with the city. Besides, the change of the Keynesian paradigm which is the backing of planning makes the restructuring of urban planning unavoidable. The contents of this course aiming to cultivate reformist approaches in the field of urban planning are; the dynamics justifying the search for a reform, theoretical framework of the reformist approach and the reformist institutional tools with references to developed countries. Discussions are targeted within the context of the adoption processes of these tools.
Pre-requisite: -
Assessment Methods: assignment
Teaching Staff: Assoc. Prof. Dr. Fatma ÜNSAL
PLO 541 STUDIO OF MONITORING URBAN DEVELOPMENT

4 hrs/week, practice, 4 credits, 8ECTS credits

Objective / Contents: The purpose of the practices to do researches in a given critical urban development area for monitoring the developments and defecting the trends in order to formulate concepts for action plans.

Pre-requisite:
Assessment Methods: project / presentation

Recommended Resources:
Teaching Staff: Prof. Dr. Aykut KARAMAN (yürütücü), Prof. Dr. Güzin KONUK, Prof. Dr. İsmet OKYAY, Assoc. Prof. Dr. Fatma ÜNSAL, Asst. Prof. Dr. Teoman TEKKÖKOĞLU, Asst. Prof. Dr. Dilek ERDEN ERBEY, Assoc. Prof. Dr. Arzu KOCABAŞ


Teaching Staff: Prof. Dr. Sümer GÜREL, Asst. Prof. Dr. Erbatur Çavuşoğlu

PLO 547 SEMINAR

2 hrs/week, theory, non-credit, 2 ECTS credits

Objective / Contents: Seminar is a common and a compulsory unit for all the students of Urban Planning (UP), Urban Design (UD), Urban Conservation and Renewal (UCR) Master Programs. In the seminar program there will be discussions on specific subjects that will support Master program courses.

Pre-requisite:
Assessment Methods: attendance / discussions

Recommended Resources: SELDMAN, A., “Culture and Society”, Cambridge
DIVISION OF URBAN AND REGIONAL PLANNING

ELECTIVE COURSES

PLP 504 URBAN POLITICS AND GOVERNANCE
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: The nature and the distribution of interest groups controlling the urban developments need to be examined in order to develop government models meeting the current urban dynamics and the transformation of urban planning. In this course; it is targeted to make a theoretical analysis of the domain of urban politics in which the policies are formulated in order to create rational solutions for urban problems and to introduce new relationship patterns of public and private sectors in this context. The contents of this course are organized under three sections. These are: theoretical framework of urban politics, interaction platforms of public and private sectors in the urban context and discussion of a government/governance model which fits the urban realities of Turkey.
Pre-requisite: 
Assessment Methods: assignment
Teaching Staff: Assoc. Prof. Fatma ÜNSAL

PLP 505 RURAL DEVELOPMENT AND METHODS OF RURAL PLANNING IN TURKEY
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: The aim of the course is to discuss problems specific to rural areas in Turkey, to investigate the policies applied in rural areas and the planning approaches to rural areas. Development of rural structures and rural policies applied before and during the Republican period will be emphasized. To develop a background literature survey on rural areas is among the aims of the course.
Pre-requisite: 
Assessment Methods: assignment / presentation
Teaching Staff: Asst. Prof. Dr. Hûrriyet ÖGDÜL

PLP 506 PLANNING APPROACHES IN METROPOLITAN AREAS
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: Urbanization was the most important process in the 20th century. The great cities will continue their prominence in the 21st century. In this context, the great cities are examined in contemplation of urban planning. The aim of this course is to understand the development of metropolitan areas, their roles in the regions and
countries, examine planning approaches to metropolitan areas and to discuss these subjects within the perspective of metropolitan planning problems of Turkey.

**Pre-requisite:** -  
**Assessment Methods:** assignment / presentation  
**Recommended Resources:** TEKELİ, İ., “The Development of İstanbul Metropoliten Area”, Emme Publication.  

**Teaching Staff:** Assoc. Prof. Dr. Güzin KAYA

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**PLP 507 THE NEW APPROACH OF NATIONAL AND REGIONAL PLANNING IN THE EU PROCESS**  
3 hrs/week, theory, 3 credits, 4 ECTS credits  
**Objective / Contents:** The aim of this course is to analyze the national and regional planning approaches within the framework of EU process and European Spatial Development Perspective.  
**Pre-requisite:** -  
**Assessment Methods:** assignment / presentation  
**Recommended Resources:** “The European Spatial Development Perspective”, 1999.  

**Teaching Staff:** Assoc. Prof. Dr. Güzin KAYA

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**PLP 508 TOOLS OF IMPLEMENTATION IN URBAN PLANNING**  
2 hrs/week, theory, 2 credits, 4 ECTS credits  
**Objective / Contents:** National, regional and metropolitan scale plans; environmental arrangement plan; master plan and implementation plan; physical, economical and social plans; action planning; space-time, aim, objectives and policies in plan; implementation tools; decision makers; implementers; obstacles; relation of social and cultural structure to implementation; timing of plan; process and quality of research; effectiveness of legal tools in implementation; financial and sanctional power; control mechanisms; teamwork, mapping and staff problems.  
**Pre-requisite:** -  
**Assessment Methods:** assignment  
**Teaching Staff:** Prof. Dr. Akın ERYOLDAŞ

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**PLP 510 URBAN TRANSPORTATION**  
2 hrs/week, theory, 2 credits, 4 ECTS credits  
**Objective / Contents:** To provide the student with practice of urban transportation planning; to discuss existing transportation implementation strategies, to explain the concept of traffic management and design alternatives and different views of disciplines.  
**Pre-requisite:** -  
**Assessment Methods:** written exam / assignment  
**Recommended Resources:** PEARs, D., “Transport and the Environment”,
PLP 512 RISK MANAGEMENT IN URBAN PLANNING
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: Natural risks and artificially created risks that appear as natural risks that indisputably affect planning, their cause and effect relations and methods and techniques to search for and determine them, are discussed in the course. Risk prevention / minimizing / abolishment methods that target to delete certain or possible harm caused by the multiple side effects of various risks are included in the syllabus. The certain and possible natural risks that await the urban planner at various stages of planning and the contexts in which they should be searched for are exemplified in case studies.

Pre-requisite: -
Assessment Methods: written exam

Recommended Resources:
Teaching Staff: Prof. Dr. Turgut ÖZTAŞ

PLP 513 SOCIAL MOBILITY AND SOCIAL CHANGE
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: The course is concerned with social change and mobility. These concepts are exemplified on some cases in Turkey and in the world. Migration and conflicts- tensions-changes in the migration process, squatting, labour, alienation, mechanization, informal sector, changes in communication, identity, relation between industrialization and urbanization are the main topics in the course.

Pre-requisite: -
Assessment Methods: assignment

Recommended Resources:
KELEŞ, R. And Ertan, B., “Çevre Hukukuna Giriş”, İmge, 2002
KABOĞLU, İ., “Çevre hakkı”, İletişim yayınları

Teaching Staff: Asst. Prof. Dr. Teoman TEKKÖKOĞLU

PLP 515 ECOLOGICAL PLANNING
2 hrs/week, theory, 2 credits, 4 ECTS credits
Objective / Contents:
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources:
Teaching Staff: Asst. Prof. Dr. Erdem ERBAŞ

PLP 516 LOCAL AUTHORITIES AND PLANNING
2 hrs/week, theory, 2 credits, 4 ECTS credits
Objective / Contents:
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources:
Teaching Staff: Asst. Prof. Dr. Erdem ERBAŞ

PLP 519 THEORY OF REGIONAL PLANNING
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents:
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources:
Teaching Staff: Assoc. Prof. Dr. Güzin KAYA

PLP 520 EU AND PLANNING POLICIES
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents:
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources:
Teaching Staff: Asst. Prof. Dr. Ash ÖĞÜT ERBİL

PLP 521 GEOGRAPHY OF URBANIZATION
2 hrs/week, theory, 2 credits, 4 ECTS credits
Objective / Contents:
Pre-requisite: -
Assessment Methods: assignment
Recommended Resources:
Teaching Staff: Prof. Dr. Erol TÜMERTEKİN, Asst. Prof. Dr. Turgay GÖKÇEN

PLP 522 HISTORY OF URBAN MANAGEMENT
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents:
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources:
Teaching Staff: Assoc. Prof. Dr. Adalet ALADÂ, Assoc. Prof. Dr. Fatma ÜNSAL

PLP 523 ENVIRONMENTAL DISCOURSES AND POLICIES
2 hrs/week, theory, 2 credits, 4 ECTS credits
Objective / Contents:
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources:
Teaching Staff: Asst. Prof. Dr. Aslı ÖÆÜT ERB‹L
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<tr>
<td>PLO 545</td>
<td>URBAN VISIONS</td>
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**PLP 524 TRANSPORTATION POLICIES**

2 hrs/week, theory, 2 credits, 4 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Dr. Kevser ÜSTÜNDAĞ

**PLP 525 URBAN THEORIES**

3 hrs/week, theory, 3 credits, 4 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Dr. Binnur ÖKTEM ÜNSAL, Prof. Dr. John LOVERING

**PLP 530 PROJECT DEVELOPMENT AND MANAGEMENT**

3 hrs/week, theory, 3 credits, 4 ECTS credits

**Objective / Contents:** Project management concept and its application to land development / building projects, from market research and feasibility studies to the completion of the project. Overview of the management problems and related tools for planning, supervision and controlling.

**Pre-requisite:** -

**Assessment Methods:** assignment/presentation

**Recommended Resources:** PMBOK.

**Teaching Staff:** Assoc. Prof. Dr. Sema ERGÖNÜL

**PLP 546 URBAN ECONOMICS**

2 hrs/week, theory, 2 credits, 4 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -

**Assessment Methods:** assignment

**Recommended Resources:**

**Teaching Staff:** Prof. Dr. Akın ERYOLDAŞ

**PLO 542 RESEARCH TECHNIQUES IN URBAN PLANNING**

2 hrs/week, theory, 2 credits, 4 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -

**Assessment Methods:** assignment

**Recommended Resources:** “Sosyal Araştırmacı Metodları”

“Social Research”, Verlingen

**Teaching Staff:** Prof. Dr. Akın Eryoldaş

**PLO 544 NEW TECHNOLOGIES IN URBAN PLANNING AND DESIGN**

2 hrs/week, theory, 2 credits, 4 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Prof. Dr. Güzin KONUK

**PLO 545 URBAN VISIONS**

2 hrs/week, theory, 2 credits, 4 ECTS credits

**Objective / Contents:** The course takes the city in the socio-cultural, philosophical and political context as the ideas that played the leading roles in its conception from Antiquity to
present.

Pre-requisite: -
Assessment Methods: assignment

Recommended Resources:

Teaching Staff: Prof. Dr. Aykut KARAMAN

PLO 546 ISTANBUL AND IMMIGRATION
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents:
Urban Morphology is taken as a field inquiry in Planning and Design. It is taken as a interactive products of environmental, social, cultural, land division factors and aesthetic considerations. A field study is done in town each year.

Pre-requisite: -
Assessment Methods: assignment/presentation

Recommended Resources:

Teaching Staff: Inst. Dr. Nuran YAVUZ

PLO 548 URBAN MORPHOLOGY
3 hrs/week, theory, 3 credits, 4 ECTS credits

Objective / Contents:

Pre-requisite: -
Assessment Methods: written exam / assignment

Recommended Resources:
Teaching Staff: Asst. Prof. Dr. Turgay GÖKÇEN

PLO 550 ISTANBUL AND GLOBALIZATION
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents:

Pre-requisite: -
Assessment Methods: assignment / presentation

Recommended Resources:
Teaching Staff: Prof. Dr. Güzin KONUK
## URBAN DESIGN PROGRAMME

Program Head: Assoc. Prof. Dr. Fatma ÜNSAL

### MASTER PROGRAMME

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<td>PLT 510 Real Estate Development and Design</td>
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<td>PLT 512 Istanbul: Planning and Design Issues</td>
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COURSE CONTENTS

REQUIRED COURSES

PLT 502 URBAN PLANNING STUDIO
4 hrs/week, theory, 4 credits, 8 ECTS credits
Objective / Contents: In the lecture new approaches and concepts in urban planning theories will be examined.
Pre-requisite: -
Assessment Methods: Project / presentation
Recommended Resources:
Teaching Staff: Prof. Dr. Aykut KARAMAN, Prof. Dr. Güzin KONUK, Assoc. Prof. Dr. Gülşen ÖZAYDIN, Assoc. Prof. Dr. Pelin GÖKGÜR, Assoc. Prof. Dr. Bilge ALPAY, Assoc. Prof. Dr. Dilek AKTÜRK

PLT 503 URBAN DESIGN THEORY AND PRINCIPLES
3 hrs/week, theory, 3 credits, 6 ECTS credits
Objective / Contents: The aim of the course is to study on the social, cultural and politic processes, which create the emergence of Urban Design as a discipline, in the frame of architectural and urban planning paradigms. Theoretical framework, and implementation tools of urban design will be explained with case projects during the course.
Pre-requisite: -
Assessment Methods: paper / presentation
Teaching Staff: Prof. Dr. Aykut KARAMAN

PLT 505 URBAN DESIGN METHODS AND TECHNIQUES
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: The role of the urban design as the regulator of the fabric and relation which orient the urban development in the design process is studied in the unit. The new urban design methods and techniques which determine the decision atmosphere is discussed and design controls, urban design policies and techniques of design plans, design guides and the examples are explained.
Pre-requisite: -
Assessment Methods: Paper / presentation
Teaching Staff: Prof.Dr.Güzin KONUK
PLO 541 STUDIO OF MONITORING URBAN DEVELOPMENT
4 hrs/week, practice, 4 credits, 8 ECTS

**Objective / Contents:** The purpose of the practices to do researches in a given critical urban development area for monitoring the developments and defecting the trends in order to formulate concepts for action plans.

**Pre-requisite:**

**Assessment Methods:** project / presentation

**Recommended Resources:**

**Teaching Staff:** Prof. Dr. Aykut KARAMAN (yürütcüsü), Prof. Dr. Güzin KONUK, Prof. Dr. İsmet OKYAY, Assoc. Prof. Dr. Fatma ÜNSAL, Asst. Prof. Dr. Teoman TEKKÖKOĞLU, Asst. Prof. Dr. Dilek ERDEN ERBEY, Assoc. Prof. Dr. Arzu KOCABAŞ

PLO 547 SEMINAR
2 hrs/week, theory, non-credit, 4 ECTS credits

**Objective / Contents:** Seminar is a common and a compulsory unit for all the students of Urban Planning (UP), Urban Design (UD), Urban Conservation and Renewal (UCR) Master Programs. In the seminar program there will be discussions on specific subjects that will support Master program courses.

**Pre-requisite:**

**Assessment Methods:** attendance / discussion


Teaching Staff: Prof. Dr. Sümer GÜREL, Asst. Prof. Dr. Erbatur Çağuşoğlu

ELECTIVE COURSES

PLT 501 ECONOMICS OF REAL ESTATE
3 hrs/week, theory, 3 credits, 4 ECTS credits

**Objective / Contents:** This course aims to explain theories of real estate within the frame of main economic theories.

**Pre-requisite:**

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Prof. Dr. İsmet KILIÇARSLAN

PLT 506 ENVIRONMENT AND BEHAVIOUR
3 hrs/week, theory, 3 credits, 4 ECTS credits

**Objective / Contents:** The aim of the course to understand the nature of interaction between human behavior and natural and artistical environment with in the theories barrowed from behavioral sciences of sociology, psychology, semiology and antropology. The area of knowledge are also related to architectural and planning theory.

**Pre-requisite:**

**Assessment Methods:** assignment /presentation

**Recommended Resources:**

**Teaching Staff:** Prof. Dr. Aykut KARAMAN

PLT 507 URBAN LANDSCAPE
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: Urban Landscape researches objective and subjective factors, physical, cultural data, social and imaginary references in the development process of the cities and their effects to the form of the cities. Urban structures, grand systems, silhouette and major urban axes are decomposed in the frame of urban landscape. Interior urban landscape and exterior urban landscape are the conceptually characteristics.

Pre-requisite: -

Assessment Methods: assignment / presentation


PLT 509 HOUSING POLICIES
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: The aim of the course is to handle the concepts of the home, the house, the neighborhood and the city as spaces of social interaction. Basic issues are; home as a shelter, street and neighborhood as a space of social relations, changing role of housing, housing policies as a social policy.

Pre-requisite: -

Assessment Methods: assignment / presentation


Teaching Staff: Asst. Prof. Dr. Hürriyet ÖGDÜL

PLT 510 REAL ESTATE DEVELOPMENT AND DESIGN
3 hrs/week, theory, 3 credits, 4 ECTS credits

Objective / Contents:

Pre-requisite: -

Assessment Methods: assignment / presentation

Recommended Resources:

Teaching Staff: Prof. Dr. Güzin KONUK

PLT 511 URBAN LIFE AND VISUAL COMMUNICATION
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: The aim of the course is to define settlement, built environment and social interaction within the framework of architecture and cinema.

Pre-requisite: -

Assessment Methods: written exam / assignment


Teaching Staff: Inst. Halit REFIĞ
PLT 512 ISTANBUL: PLANNING AND DESIGN ISSUES
2 hrs/week, theory, 2 credits, 4 ECTS credits
Objective / Contents: The aim of the course is to examine the potentials, capacities and problems of İstanbul in the frame of globalisation dynamics and urban projects.
Pre-requisite: -
Assessment Methods: assignment / presentation
Recommended Resources: Teaching Staff: Prof. Dr. Aykut KARAMAN

PLT 513 URBAN MICRO MILLIEU DESIGN
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: The course is concerned with formal aesthetic aspects of urban design. The environmental patterns that make cities into being are theoretically explored. The explorations are also exemplified on various notable cities of the world and on the site visits.
Pre-requisite: -
Assessment Methods: assignment / presentation
Recommended Resources: Teaching Staff: Assoc. Prof. Dr. Gülşen ÖZAYDIN

PLT 516 URBAN PROJECTS AND URBAN DESIGN
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: To orient the reproduction of the urban space, urban design has to create a “co-ordinated integrity of the actions” in the planning system. In this context the main aim should be the orientation of the strategic planning and urban development (quality of design/sustainability/economy/governance/social balance) and the transfer of the urban design decisions to the space. The urban projects will be defined through this main aim and will be studied by the cross-examination of plan/project dialectics.
Pre-requisite: -
Assessment Methods: assignment / presentation
Recommended Resources:
Teaching Staff: Prof. Dr. Güzin KONUK

PLT 518 CULTURAL INTERPRETATION IN DESIGN AND THE CULTURE OF LIVING
2 hrs/week, theory, 2 credits, 4 ECTS credits
Objective / Contents: The seminar covers a discussion of factors effecting the realization of design starting from the determination of the need and the program that will provide for that need. The effect of cultural interpretation on design is explicated through examples (such as Sinan the Great, Architect Kemalettin and various contemporary architects).
culture of living, issues of personality and identity, the effects of ways of living and cultures on urban spaces, streets, avenues and squares; the impact of cultural interpretation on conservation are the issues that are especially emphasized. Finally, use of the concept "culture of living" as applied to the rehabilitation of the old city fabric is explained in the example of Kuzguncuk, an old village on the Bosphorus.

**Pre-requisite:** -  
**Assessment Methods:** assignment

**Recommended Resources:**

**Teaching Staff:** Inst. Cengiz BEKTAŞ

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**PLT 520 PSYCHOLOGY OF COLOUR AND FORM**

2 hrs/week, theory, 2 credits, 4 ECTS credits  
**Objective / Contents:** Perception psychology connection organized Psychology effects of form, color, tissue and origin of behavior.

**Pre-requisite:** -  
**Assessment Methods:** assignment / presentation

**Recommended Resources:**

**Teaching Staff:** asst. Prof. Dr. Dilek AKTÜRK

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**PLT 522 DESIGNING PUBLIC SPACE**

3 hrs/week, theory, 3 credits, 4 ECTS credits  
**Objective / Contents:**

**Pre-requisite:** -  
**Assessment Methods:** assignment / presentation

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Dr. Pelin GÖKGÜR

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**PLT 524 URBAN ERGONOMY**

2 hrs/week, theory, 2 credits, 4 ECTS credits  
**Objective / Contents:**

**Pre-requisite:** -  
**Assessment Methods:** assignment / presentation

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Dr. Bilge ULUSAY ALPAY

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**PLO 542 RESEARCH TECHNIQUES IN URBAN PLANNING**

2 hrs/week, theory, 2 credits, 4 ECTS credits  
**Objective / Contents:**

**Pre-requisite:** -  
**Assessment Methods:** assignment

**Recommended Resources:** “Sosyal Araştırma Metodları” “Social Research”, Verlingen

**Teaching Staff:** Prof. Dr. Akin ERYOLDAŞ

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**PLO 544 NEW TECHNOLOGIES IN URBAN PLANNING AND DESIGN**

2 hrs/week, theory, 2 credits, 4 ECTS credits  
**Objective / Contents:**

**Pre-requisite:** -  
**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Prof. Dr. Güzin KONUK

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**PLO 545 URBAN VISIONS**

2 hrs/week, theory, 2 credits, 4 ECTS credits  
**Objective / Contents:** The course takes the city in the socio-cultural, philosophical and political context as the ideas that played the leading roles in its conception from Antiquity to
present.

**Pre-requisite:** -

**Assessment Methods:** assignment

**Recommended Resources:**


**Teaching Staff:** Prof. Dr. Aykut KARAMAN

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**PLO 546 ISTANBUL AND IMMIGRATION**

2 hrs/week, theory, 2 credits, 4 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**


**Teaching Staff:** Prof. Dr. Aykut KARAMAN

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**PLO 548 URBAN MORPHOLOGY**

3 hrs/week, theory, 3 credits, 4 ECTS credits

**Objective / Contents:** Urban Morphology is taken as a field inquiry in Planning and Design. It is taken as an interactive products of environmental, social, cultural, land division factors and aesthetic considerations. A field study is done in town each year.

**Pre-requisite:** -

**Assessment Methods:** assignment / presentation

**Recommended Resources:**

KARAMAN, A., “Defining Regional

---

**PLO 549 COMPUTER AIDED PLANNING AND DESIGN**

2 hrs/week, theory, 2 credits, 4 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

KARAMAN, A., “Defining Regional

---

**PLO 550 ISTANBUL AND GLOBALIZATION**

2 hrs/week, theory, 2 credits, 4 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

KARAMAN, A., “Defining Regional
URBAN AND REGIONAL PLANNING

DOCTORATE PROGRAMME

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ELECTIVE COURSES

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PLK 606 HISTORICAL URBAN PLANNING
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents:
Pre-requisite:
Assessment Methods: assignment / presentation
Recommended Resources:
Teaching Staff: Prof. Dr. İsmet Okyay
The education of industrial design in Turkey was initiated for the first time by Mimar Sinan University in 1971. The main purpose of the department is to train industrial design students in the scientific and artistic setting that makes the original identity of Mimar Sinan University which has the capability of applying creative solutions in the fields of new product design. On the other hand, the Department of Industrial Design is a strict representative of the academic heritage dependent on the classical education. According to the importance of the continuing tradition the department selects its new-coming students by a drawing skills exam in order to train the talented candidates for their professional careers.

In the education system of the department, there are many advanced aspects of the industrial design profession reflecting the true needs of the industry such as: product, furniture, transport and package design in a wide “production-consumption-investment” range. Additionally, the framework of the program consists of the aims to develop the ability to cope with diverse problem areas with real human needs in industrial design without restricting students to particular fields of specialization. So, as a primary objective, bringing up the valuable designers equipped with the top-notch accumulations to cope with the problems that the Turkish Manufacturing Industry has and will
have encountered which exists in the main principle of this department.

Another considerable fact in the educational program of the Industrial Design Department is to keep the subjects and the industrial design fields—which are to be dwelled upon—related to realities of Turkey and the future dependencies as much as possible. But nevertheless, the importance of product design for the industry on a “global” basis is gaining merit and the effectiveness of this opinion is increasing on an international level. Therefore, another principle of the department which is held primarily is that; each and every single student in this program is to be educated, trained and equipped with the quality of information and responsibility to work as a designer in any corporation under any circumstances whatsoever all over the world. In order to maintain these thoughts and values into the professional life, the structure of the Department of Industrial Design is held tight both with theoretical and applied studies with determined unity and harmony.

For the unification of these two priorities, we are to organize various industrial design prizes and research projects collaborating with important corporations in different fields of the manufacturing industry. Thus the collaboration channels between the undergraduate students and the major needs of the industries are to be built and to be recognized. These types of competitions and design prizes are placed in the primary aims of the department in order to fulfill the appropriate vocational fields for the talented industrial design students according to their abilities and capacities.

In these manners, the primary objectives of our departments’ undergraduate and post-graduate educations can easily be clarified as such:

- To orientate the Turkish Industry directed by product design; to contribute in enhancing the applied and theoretical researches,
- To supply design projects and designers to the Turkish Manufacturing Industries,
- To bring up the accumulations to the education and industry as well by following the global projections,
- To constitute and valuate an example in its own educational and professional values in industrial design.

TEACHING STAFF

FULL TIME

Prof. Dr. Cemil TOKA
PhD: MSÜ, 1990.

Prof. Dr. Oğuz BAYRAKÇI
Bachelor/Master: D.G.S.A. 1977; PhD: MSÜ, 1995

Prof. Dr. Süha ERDA
Bachelor/Master: D.G.S.A. 1974; PhD: MSÜ, 1993.
Asst. Prof. Dr. Hüseyin KURTULUŞ

Asst. Prof. Dr. Tengüz ÜNSAL
Bachelor: MSÜ, 1987; Master: MSÜ, 1991; PhD: University of Northumbria.

Asst. Prof. Dr. Oğuz ERATAÇ

Asst. Prof. Dr. Ebru GÜZELDEREN

Asst. Prof. Dr. Meltem ÖZKARAMAN
Bachelor: MSÜ, 1997; Master: MSÜ, 1999; PhD: MSÜ, 2005.

PART TIME

Prof. Önder KÜÇÜKERMAN
Bachelor/Master: D.G.S.A. 1965.

Prof. Dr. İlhan ERHAN
Bachelor: Kassel University of Fine Arts, 1972; PhD: MSÜ, 1978.

Prof. Dr. Murat ERİÇ
Bachelor/Master: D.G.S.A 1967; PhD: ITÜ 1972.

Prof. Dr. Kenan MORTAN

Inst. Kaan DERİÇIOĞLU
## MASTER PROGRAMME

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### ELECTIVE COURSES

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**COURSE CONTENTS**

**REQUIRED COURSES**

**ET 500 SEMINAR**
2 hrs/week, non-credit, 5 ECTS credits

*Objective / Contents:* Seminar consists of an active presentation of the student who is to work with professional designers and specialists from either inside or outside of the university to demonstrate a proposal for their work on daily basis aspects.

*Pre-requisite:* -

*Assessment Methods:* -

*Recommended Resources:*

*Teaching Staff:* Prof. Önder KÜÇÜKEMAN, Prof. Dr. Cemil TOKA, Prof. Dr. İlhan ERHAN, Prof Dr. Öğuz BAYRAKÇI, Prof. Dr. Süha ERDA, Asst. Prof. Dr. Hüseyin KURTULUŞ, Asst. Prof. Dr. Tengüz ÜNSAL, Asst. Prof. Dr. Ebru GÜZELDEREN

**ET 591 DESIGN PROJECT**
4 hrs/week, Practice, 2 credits, 10 ECTS credits

*Objective / Contents:* Collaborative project work with industry. Synthesizing real-life design problems with a critical and professional approach. Issues of corporate identity, product identity, system design, interface design, and new technologies. Developing individual method and style and evolving robust and presentable design solutions with a corporate and contextual approach.

*Pre-requisite:* -

*Assessment Methods:* written exam / assignment

*Recommended Resources:*

*Teaching Staff:* Prof. Önder KÜÇÜKEMAN, Prof. Dr. Cemil TOKA, Prof. Dr. İlhan ERHAN, Prof Dr. Öğuz BAYRAKÇI, Prof. Dr. Süha ERDA, Asst. Prof. Dr. Hüseyin KURTULUŞ, Asst. Prof. Dr. Tengüz ÜNSAL, Asst. Prof. Dr. Ebru GÜZELDEREN

**ET 599 SEMINAR**
2 hrs/week, non-credit, 5 ECTS credits

*Objective / Contents:* Seminar consists
of an active presentation of the student who is to work with professional designers and specialists from either inside or outside of the university to demonstrate a proposal for their work on daily basis aspects.

**Pre-requisite:** -

**Assessment Methods:**

**Recommended Resources:**

**Teaching Staff:** Prof. Önder KÜÇÜKERMAN, Prof. Dr. Cemil TOKA, Prof. Dr. İlhan ERHAN, Prof Dr. Oğuz BAYRAKÇI, Prof. Dr. Süha ERDA, Asst. Prof. Dr. Hüseyin KURTULUŞ, Asst. Prof. Dr. Tengüz ÜNSAL, Asst. Prof. Dr. Oğus ERATAÇ, Asst. Prof. Dr. Ebru GÜZELDEREN, Asst. Prof. Dr. Meltem ÖZKARAMAN ŞEN

### ELECTIVE COURSES

**ET 501 DESIGN THEORIES**

4 hrs/week, theory, 4 credits, 5 ECTS credits

**Objective / Contents:** Traditional, contemporary, genuine design perspectives and approaches; compilation of design researches and inventions; problem solving and new perceptions for product design; the infrastructure and the nature of product design; basic and general theories for design activities.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:** JONES, C.J., “Design Methods”, the Pitman Press, Bath, 6B.

**Teaching Staff:** Asst. Prof. Dr. Hüseyin KURTULUŞ

**ET 502 DESIGN METHODOLOGIES**

2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The creativity in Industrial Design and the fact like observation, examining, research, designation, scanning and selection for systematic or morphological methods effecting this process.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Dr. Hüseyin KURTULUŞ

**ET 503 COMMUNICATIONAL MODELS IN DESIGN**

2 hrs/week, theory, 2 credits, 5 ECTS credits
**Objective / Contents:** Aims to give the conceptual infrastructure of the design morphology with given examples like Pseudo-Trends and improve the creativity in different representational planes of Product Design. Developing a theoretical background in semiotics and semantics, analysis of certain products or products as images and to develop a project in which the design process initiated by the semantic paradigm.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**
- BAYRAKÇI, O., “Tasarımda İletişimsel Modeller”
- BARTHS, R., “Göstergebilim İlkeleri”
- VILMA, S., “Object and Image”
- VILMA, S., “Semantic Visions in Design”.
- KLAUS, K. “Product Semantics”.

**Teaching Staff:** Prof. Dr. Oğuz BAYRAKÇI

**ET 504 DESIGN SEMIOLOGY & PRODUCT SEMANTICS**
2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Information transfers, semantics, perception, determination, interpretation and inside the form expressing matters the designer-product-consumer relationship is examined semiotically and semantically.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Prof. Dr. Oğuz BAYRAKÇI

**ET 505 ERGONOMICS**
2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Introduction of standard dataset related to Human-machine Systems; environmental effects and business laws; the development of working systems; physo-physiological and socio-cultural capacity dependant concepts and principles.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Prof. Dr. Cemil TOKA

**ET 506 ANTHROPOMETRICS**
2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Usage of human body measurements for environmental and vehicle design. The active area of anthropometrics; anthropometrical
data; principles in designing the working environment and tools; biomechanics of movement and movement economy in working environment.

**Pre-requisite:** -  
**Assessment Methods:** written exam / assignment  
**Teaching Staff:** Prof. Dr. Cemil TOKA

**ET 507 PRODUCT PLANNING CONCEPTS**  
2 hrs/week, theory, 2 credits, 5 ECTS credits  
**Objective / Contents:** Product specification dependant consumerism; production and design concepts. The analysis industrial production with product planning concepts’ aspect.  
**Pre-requisite:** -  
**Assessment Methods:** written exam / assignment  
**Recommended Resources:** BAYRAKÇI, O. Tasarında İletişimsel Modeller  
BUCK, A., HERRMANN, C., LUBKOWITZ, D. Handbuch Trend Management  
ERHAN, İ. Tasarında Temel İlkeler ve Amacın Belirlenmesi.  
**Teaching Staff:** Prof. Dr. İlhan ERHAN

**ET 508 PRODUCT PLANNING TECHNIQUES**  
2 hrs/week, theory, 2 credits, 5 ECTS credits  
**Objective / Contents:** Research for the real resources creating the need for new products; new and creative perceptions in product development and planning; the verifications and the quality of planning techniques in industrial production.  
**Pre-requisite:** -  
**Assessment Methods:** written exam / assignment  
**Recommended Resources:** BAYRAKÇI, O. Tasarında İletişimsel Modeller  
BUCK, A., HERRMANN, C., LUBKOWITZ, D. Handbuch Trend Management  
BAYAZIT, N. Endüstri Ürünlerinde ve Mimarlıktta Tasarlama Metodlarına Giriş  
KARMASIN, H. Produkte alsBotschaften  
**Teaching Staff:** Prof. Dr. İlhan ERHAN

**ET 509 MANUFACTURING TECHNIQUES – RESEARCH & DEVELOPMENT**  
2 hrs/week, theory, 2 credits, 5 ECTS credits  
**Objective / Contents:** Aims to develop and establish an awareness and
sensibility for selecting appropriate materials and manufacturing processes in the design process of products in their chronological development and establishing the relations between the materials and the manufacturing techniques.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment


**Teaching Staff:** Prof. Dr. Murat ERİÇ

---

**ET 510 MANUFACTURING PHYSICS**

2 hrs/week, theory, 2 credits, 5 ECTS credits


**Pre-requisite:** -

**Assessment Methods:** written exam / assignment


**Teaching Staff:** Prof. Dr. Murat ERİÇ

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**ET 511 INTERFACE DESIGN**

CONCEPTS IN THE HUMAN-MACHINE RELATION

2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Dr. Ebru GÜZELDEREN

---

**ET 512 MEASUREMENTS OF INTERFACE DESIGN**

2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:**

**Pre-requisite:** -
**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Asst. Prof. Dr. Ebru GÜZELDEREN

**ET 513 INDUSTRIAL AFFAIRS**
2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The objectives of industrial production; the features of administrative organization; the positions of the designers in corporations; planning of industrial affairs and the new techniques for them to make progress.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**
KÜÇÜKERMAN, Ö., “Endüstri Tasarımı İçin Ürün Tasarımında Yaratıcılık”.
KÜÇÜKERMAN, Ö., “Endüstri Tasarımı, Ürün Tasarımında Adımlar”.

**Teaching Staff:** Prof. Dr. Önder KÜÇÜKERMAN

**ET 514 INDUSTRIAL SYSTEMS**
2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The preferences of industrial systems and their identities; importance of the techno-economic relations and determination of design surrounding; inventions and novelties, tactics and strategic correlations.

**Pre-requisite:** -

**Assessment Methods:** written exam/assignment

**Recommended Resources:**

KÜÇÜKERMAN, Ö., “Endüstri Tasarımı İçin Ürün Tasarımında Yaratıcılık”.
KÜÇÜKERMAN, Ö., “Endüstri Tasarımı, Ürün Tasarımında Adımlar”.

**Teaching Staff:** Prof. Dr. Önder KÜÇÜKERMAN

**ET 517 THE EFFECTS OF INDUSTRIAL POLICIES ON PRODUCTS IN TURKEY**
2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The Influences of Industrial Policies, Developmental Plannings to both industrial Design And Production. The Relationship between the Policies and Design Parameters. The changing process of the products during the progression and development of the Industry in Turkey.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Asst Prof. Dr. Meltem ÖZKARAMAN ŞEN

**ET 518 THE MODEL OF CULTURAL CHANGING ELEMENTS IN INDUSTRIAL PRODUCTS**
2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** The progression and the development of the Cultural Systems in the lifestyle and indoor places. The change of Industrial and cultural systems by means of Socio-economical and cultural stipulations in Product Design.

**Pre-requisite:** -

**Assessment Methods:** written exam
ET 519 MATERIAL SELECTION
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: Aims to develop and establish an awareness and sensibility for selecting appropriate materials and manufacturing processes in the design process of products. Subjects include properties of material selections; plastics, glass, ceramics, composites, and wood.

Pre-requisite: -

Assessment Methods: written exam / assignment


Teaching Staff: Prof. Dr. Murat ERİÇ

ET 520 MANUFACTURING METHODS & TECHNIQUES
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: Examining the correlation of shaping methodologies and the techniques used in these processes with classifications and technological systems in product design.

Pre-requisite: -

Assessment Methods: written exam / assignment


Teaching Staff: Prof. Dr. Murat ERİÇ

ET 523 INTELLECTUAL PROPERTY RIGHTS
2 hrs/week, theory, 2 credits, 5 ECTS credits

Objective / Contents: Covers professional rights, responsibilities and obligations of designers practicing at national or international levels in design related laws and its terms. Aims to give general definitions and basics of the national regulations concerning patents, utility models, industrial designs, trademarks, copyright, unfair competition, and consumer protection. Provides an international overview of the
standards, environmental regulations, and product liability issues.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Inst. Kaan

DERİÇİOĞLU

**ET 524 DESIGN PROPERTY RIGHTS**

2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Aims to give general definitions and protection methods of intellectual and industrial property like copyright, patent, utility model, industrial design and trademark issues. National and international dimensions of this issue with related laws, codes in force.

**Pre-requisite:** -

**Assessment Methods:** written exam and assignment

**Recommended Resources:**


BEŞIROĞLU, A., “Düşünce Ürünleri Üzerinde Haklar”

SULUK, C., “Tasarım Hukuku”


**Teaching Staff:** Inst. Kaan

DERİÇİOĞLU

**ET 528 SOCIO-ECONOMICS INFLUENCES IN INDUSTRIAL DESIGN**

3 hrs/week, theory, 3 credits, 5 ECTS credits

**Objective / Contents:** Aims to show local and global economical conditions in order to constitute the major design concept.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

KÜÇÜKERMAN, Ö., “Tasarım ve Ekonomi”

SAMUELSON, “İktisat”

KEPENER, Y., “Türkiye Ekonomisi”

**Teaching Staff:** Prof. Dr. Kenan MORTAN

**ET 529 SOCIOECONOMICS IN INDUSTRIAL DESIGN**

3 hrs/week, theory, 3 credits, 5 ECTS credits

**Objective / Contents:** Aims to show local and global economical conditions in order to constitute the major design concept.

**Pre-requisite:** -

**Assessment Methods:** practice/assignment

**Recommended Resources:**

**Teaching Staff:** Prof. Dr. Kenan MORTAN

**ET 531 DESIGN MANAGEMENT CONCEPTS**

2 hrs/week, theory, 2 credits, 5 ECTS credits

**Objective / Contents:** Aims to teach the conceptual information and the methods concerning the facts like research and developments conditioned by the global and domestic production provisions of industrial design as well as the administrative organizations in master’s degree education.
Pre-requisite: -  
Assessment Methods: written exam / assignment  
Recommended Resources:  
Teaching Staff: Prof. Dr. Süha ERDA

ET 532 DESIGN MANAGEMENT TECHNIQUES  
2 hrs/week, theory, 2 credits, 5 ECTS credits  
Objective / Contents: Aims to teach the information, techniques and the methods concerning the facts like economical competition, growing trends, analysis etc, conditioned by the global and domestic production provisions of industrial design, conditioned by the global and domestic production provisions of industrial design as well as the administrative organizations in master’s degree education.  
Pre-requisite: -  
Assessment Methods: written exam / assignment  
Recommended Resources:  
Teaching Staff: Prof. Dr. Süha ERDA

ET 535 TECHNOLOGICAL DEVELOPMENT IN DESIGN  
2 hrs/week, theory, 2 credits, 5 ECTS credits  
Objective / Contents: The historic evolution of the sciences and scientific opinions; the science in eastern and western civilizations; the effect of technical and technological inventions to our lifestyle and economic correlations.  
Pre-requisite: -  
Assessment Methods: written exam / assignment  
Recommended Resources:  
Teaching Staff: Asst. Prof. Dr. Oğuz ERATAÇ

ET 536 DESIGN AND TECHNOLOGY  
2 hrs/week, theory, 2 credits, 5 ECTS credits  
Objective / Contents: Technology and its importance in Design; the technological changes from the beginning; the relationship between technology and science; the effects of Industrial Revolution; techo-economic databases and effects to design attitudes.  
Pre-requisite: -  
Assessment Methods: written exam / assignment  
Recommended Resources:  
Teaching Staff: Asst. Prof. Dr. Oğuz ERATAÇ

ET 537 RESEARCH TECHNIQUES IN PRODUCT DESIGN  
2 hrs/week, theory, 2 credits, 5 ECTS credits  
Objective / Contents: Quantitive and qualitative data collection techniques for Applicable and research projects in industrial product design.  
Pre-requisite: -  
Assessment Methods: written exam / assignment  
Recommended Resources:  
Teaching Staff: Asst. Prof. Dr. Tengüz ÜNSAL
DIVISION OF STRUCTURAL ENGINEERING

Division Head:
Assoc. Prof. Dr. Sema ERGÖNÜL

Tel: 0212 252 1600 / 278

Address:
Mimar Sinan Fine Arts University
Meclis-i Mebusan Caddesi 34427,
Fındıklı İSTANBUL
Structural engineering programme aims to provide detailed knowledge and ability on design, computation and application of structural systems. M.Sc. and Ph.D courses of the programme are taught in English.

TEACHING STAFF

FULL TIME

Asst. Prof. Dr. Fevzi DANSIK

Asst. Prof. Dr. Meltem ŞAHİN
MASTERS PROGRAMME

1. SEMESTER

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ELECTIVE COURSES

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<td>SE 505 Design and Behavior of Structural Systems</td>
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<td>SE 521 Space Structures and Their Configuration Processing</td>
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<td>SE 522 Design, Analysis and Realization of Tension Structures</td>
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<td>SE 523 Introduction to Earthquake Engineering</td>
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<td>SE 601 Theory of Shells</td>
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## DOCTORATE PROGRAMME

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COURSE CONTENTS

REQUIRED COURSES

SE 500 SEMINAR
2 hrs/week, non-credit, 4 ECTS credits

Objective / Contents: Special topics of structural engineering will be investigated and presented by the students. Discussions will follow under the leading of the teaching stuff.

Pre-requisite: -
Assessment Methods: presentation

Recommended Resources:
Recommended resources are given to the students at the beginning of the each semester.

Teaching Staff: Asst. Prof. Dr. Meltem ŞAHİN

ELECTIVE COURSES

SE 503 DESIGN, ANALYSIS AND REALIZATION OF SPACE
3 hrs/week, theory, 3 credits, 8 ECTS credits

Objective / Contents: General design considerations, internal structure, forms, connections and elements, loads, stress and displacement analysis, dynamic analysis and behaviour, stability and collapse analysis, optimization, shop fabrication, field assembly and erection, lifting systems.

Pre-requisite: -
Assessment Methods: written exam/assignment

Recommended Resources:

Teaching Staff: Asst. Prof. Dr. Fevzi DANSIK

SE 505 DESIGN AND BEHAVIOR OF STRUCTURAL SYSTEMS
3 hrs/week, theory, 3 credits, 8 ECTS credits

Objective / Contents: Concept of structural system, its definition, function, arrangement and material; elements of structural system: Beams, grids, frames and arches, effect of external loads, temperature changes, support movements and how to form a complete structural system of a building using these elements; earthquake response of structural systems: Rules for earthquake resistant design; damage and failure of structural systems, methods of repairing.

Pre-requisite: -
Assessment Methods: written exam/assignment

Teaching Staff: Asst. Prof. Dr. Meltem ŞAHİN

SE 506 DESIGN, ANALYSIS AND REALIZATION OF AIR-SUPPORTED MEMBRANES
3 hrs/week, theory, 3 credits, 8 ECTS credits

Objective / Contents: Shapes, materials, inflation systems, static and dynamic wind load, dead load, earthquake load, static and dynamic analysis, linear and nonlinear analysis, Finite Element Method, anchorage systems, secondary structural elements, fabrication, construction, fire prevention and evacuation planning, maintenance and control.

Pre-requisite: -
Assessment Methods: written exam/assignment

Teaching Staff: Asst. Prof. Dr. Fevzi DANSIK

SE 521 SPACE STRUCTURES AND THEIR CONFIGURATION PROCESSING
3 hrs/week, theory, 3 credits, 8 ECTS credits

Objective / Contents: Types of space structures, frequently used patterns for these types of structures, commercially available prefabricated space structures systems (joints), general concepts of the methods of analysis of space structures, a general description of construction methods and configuration processing and computer aided design of space structures. Expertise in configuration processing is considered to be vital for any engineer or architect who is involved in the design of space structures. Consequently, major emphasis is placed on the development of skills in this area.

Pre-requisite: -
Assessment Methods: written exam/assignment

Teaching Staff: Asst. Prof. Dr. Fevzi DANSIK

SE 522 DESIGN, ANALYSIS AND REALIZATION OF TENSION STRUCTURES
3 hrs/week, theory, 3 credits, 8 ECTS credits

Objective / Contents: Types of tension structures, their forms and their behavior; material properties, form finding process; numerical methods and physical modeling; general concepts of the methods of analysis of tension structures, a general description of construction methods, cutting pattern process and computer aided design of tension structures. The surface shape of a tension structure has direct effect on the behavior and effectiveness of the structure. Hence, major emphasis is placed on the form finding and cutting pattern processes which are unique stages for these structural systems.

Pre-requisite: -
Assessment Methods: written exam/assignment

**Teaching Staff:** Asst. Prof. Dr. Fevzi DANSIK

**SE 523 INTRODUCTION TO EARTHQUAKE ENGINEERING**
3 hrs/week, theory, 3 credits, 8 ECTS credits

**Objective / Contents:** Earthquake can cause major harms on structures. To protect the structures against these harmful effects of earthquakes, many devices and methods have been developed. The aim of this course is to give the fundamental information about earthquake and its effects on structures then introduce the-state-of-the-art technology and engineering developments against earthquake.

**Pre-requisite:** -

**Assessment Methods:** written exam/assignment

**Recommended Resources:**

- CELEP Z., KUMBASAR, N., “Deprem Mühendisliğine Giriş”.
- CELEP Z., KUMBASAR, N., “Yapı Dinamiği”.

**Teaching Staff:** Asst. Prof. Dr. Meltem ŞAHİN

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**SE 601 THEORY OF SHELLS**
3 hrs/week, theory, 3 credits, 8 ECTS credits

**Objective / Contents:** Differential geometry of curved surfaces, classical shell theory, different approximations to the shell theory, special theories: Membrane, quasi-inextensional and general bending theories, boundary conditions, nonlinear theory, shell theory of finite displacements.

**Pre-requisite:** -

**Assessment Methods:** written exam/assignment

**Recommended Resources:**

- CELEP Z., KUMBASAR, N., “Deprem Mühendisliğine Giriş”.
- CELEP Z., KUMBASAR, N., “Yapı Dinamiği”.

**Teaching Staff:** Asst. Prof. Dr. Meltem ŞAHİN
CONSTRUCTION PROJECT MANAGEMENT PROGRAMME

**Program Head:** Assoc. Prof. Dr. Sema ERGÖNÜL

**Phone:** (0212) 252 16 00 / 278

**Address:** Mimar Sinan Fine Arts University Meclis-i Mebusan Caddesi 34427, Fındıkzı İstanbul

Construction project management programme aims to provide fundamental knowledge and ability (in collaboration with construction sector) for architects and engineers who intend to enhance their managerial skills and work as a manager in construction sector. M.Sc and Ph.D courses of the programme are taught in English.

**TEACHING STAFF**

**FULL TIME**

Assoc. Prof. Dr. Sema ERGÖNÜL

**PART TIME**

Assoc. Prof. Dr. Yalçın TEZCAN
Bachelor/Master: İTÜ, 1960; PhD: İTÜ, 1969.

Inst. Niyazi GALİPOĞULLARI
Bachelor/Master: İTÜ, 1968.
MASTER PROGRAMME

1. SEMESTER

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ELECTIVE COURSES

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<td>CM 505 Project Delivery Approaches</td>
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<td>CM 512 Legal Aspects of Construction Contracting</td>
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<td>CM 516 Quality Management in Construction</td>
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# DOCTORATE PROGRAMME

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COURSE CONTENTS

REQUIRED COURSES

CM 500 SEMINAR
2 hrs/week, non-credit, 2 ECTS credits
Objective / Contents: With the participation of experienced guest Teaching Staffs invited from practice, review and discussion of the processes, current issues and the future developments in “Construction Project Management” from a comprehensive interdisciplinary point of view.
Pre-requisite: -
Assessment Methods: presentations
Recommended Resources: Recommended resources are given to the students at the beginning of the each semester
Teaching Staff: Assoc. Prof. Dr. Sema ERGÖNÜL

CM 501 INTRODUCTION TO PROJECT MANAGEMENT
3 hrs/week, theory, 3 credits, 9 ECTS credits
Objective / Contents: “Project Management” concept and its application to land development/building projects from market research and feasibility studies to the completion and delivery. Project Management Knowledge Areas. Overview of the management problems and related tools in construction for planning, supervision and controlling; performance measurement; processes involved.
Pre-requisite: -
Assessment Methods: assignment / presentation
Recommended Resources: PMBOK.

“Project Management Body of Knowledge”
Teaching Staff: Assoc. Prof. Dr. Sema ERGÖNÜL
ELECTIVE COURSES

CM 503 HUMAN RESOURCES MANAGEMENT IN CONSTRUCTION
3 hrs/week, theory, 3 credits, 7 ECTS credits

Objective / Contents: The processes required to make the most effective use of people involved with the construction projects. Analysis of organizational planning, staff acquisition and team development.

Pre-requisite:

Assessment Methods: assignment / presentation

Recommended Resources:

Teaching Staff: Assoc. Prof. Dr. Sema ERGÖNÜL

CM 505 PROJECT DELIVERY APPROACHES IN CONSTRUCTION
3 hrs/week, theory, 3 credits, 7 ECTS credits

Objective / Contents: Comparative analysis of current “Project Delivery Approaches” in construction such as; General Contracting, Management Contracting, Construction Management, Design-Building, BOT (building, operate, transfer) etc. Different types of construction contracts such as lump sum, unit price, cost plus fee etc. in national and international context. Joint Ventures and Partnering in large-scale construction projects.

Pre-requisite:

Assessment Methods: written exam/assignment


Teaching Staff: Inst. Niyazi GALÎPOGULLARI

CM 506 CONSTRUCTION SITE MANAGEMENT
3 hrs/week, theory, 3 credits, 7 ECTS credits

Objective / Contents: Definition, selection and assessment of Construction Plant and Construction Methods. The concept of “Method Statement “. Site inspections, the influence of site and its boundaries on plant. Temporary work, their role and association with plant and equipment. Planning and design of “site layout”. The organizational structure of site management: roles, responsibilities and authorities. Mobilization and demobilization of site.

Pre-requisite:

Assessment Methods: written exam/assignment

CLOUD, R.H., Sears, G. A. And Sears, S. K. “Construction Project Management”

Teaching Staff: Inst. Niyazi GALÎPOGULLARI
CM 509 CONTRACT PROCEDURES
3 hrs/week, theory, 3 credits, 7 ECTS credits

**Objective / Contents:** Overview of construction contracts and related documents which define the job and specify the quality; bill of quantities, prices, rates, work and price breakdowns, claims, negotiations, arbitrations, changes of the conditions of the contract; designing the best fitting contracts.

**Pre-requisite:** -

**Assessment Methods:** written exam/assignment

**Recommended Resources:** FISK, E. “Construction Project Administration”, 2000.
CLOUD, R. H. “Construction Contracting”

**Teaching Staff:** Assoc. Prof. Dr. Yağış TEZCAN

---

CM 512 LEGAL ASPECTS OF CONSTRUCTION CONTRACTING
3 hrs/week, theory, 3 credits, 7 ECTS credits


**Pre-requisite:** -

**Assessment Methods:** written exam/assignment

**Recommended Resources:** ESİN, A. ISO 9001 Işığında Hizmette Toplam Kalite
OAKLAND, S. “Total Quality management: the route to improving performance”.

**Teaching Staff:** Assoc. Prof. Dr. Sema ERGÖNÜL
The Mathematics Graduate Program is designed to develop students' ability to pursue independent and original work. The program involves research in various areas of applied and theoretical mathematics. The department has both an M.Sc. and a Ph.D. program.

TEACHING STAFF

FULL TIME

Prof. Dr. Fatma SENYÜCEL
Bachelor: İstanbul Üniversitesi, 1973; PhD: YTÜ, 1983.

Prof. Dr. Mahammad TAGHIYEV
Bachelor: Moskova Devlet Üniversitesi, 1973; PhD: Moskova Devlet Üniversitesi, 1981

Asst. Prof. Dr. Ahmet BAKKALOĞLU

Asst. Prof. Dr. Sezai MAKAS
Bachelor: MSÜ, 1989; Master: MSÜ, 1992; PhD: MSÜ, 1996.

Asst. Prof. Dr. Nebi ÖNDER

Asst. Prof. Dr. Nil Dikmen KOFOĞLU
Asst. Prof. Dr. Didem ÖZTÜRK
Bachelor: İstanbul Üniversitesi, 1995; Master: MSÜ, 1998; PhD: MSÜ, 2002.

Asst. Prof. Dr. Gülay İlona TELSİZ

PART TIME

Doç. Dr. K. İlhan İKEDA
### MASTER PROGRAMME

#### 1. SEMESTER

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# DOCTORATE PROGRAMME

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## ELECTIVE COURSES

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<td>MA 656 Exterior Differential Forms And Applications</td>
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COURSE CONTENTS

REQUIRED COURSES

MA 580 SEMINAR
3 hrs/week, non-credit, 6 ECTS credits
Pre-requisite: -
Assessment Methods: presentation
Recommended Resources: WBLEN, O., “Invariants of Quadratic Differential Forms”
EISENHART, L.P., “Non-Riemannian Geometry”
RUSE, H.S., Walker, A.G. & Willmore, T.J., “Harmonic Spaces”
Teaching Staff: Asst. Prof. Dr. Nebi ÖNDER, Asst. Prof. Dr. Ahmet BAKKALOĞLU, Asst. Prof. Dr. Sezai MAKAS

ELECTIVE COURSES

MA 511 REAL ANALYSIS
3 hrs/week, theory, 3 credits, 8 ECTS credits
Objective / Contents: Measure Spaces; Lebesque Measure; Hahan and Jordan Decomposition; Measurable Functions and Lebesque integral; Absolute continuity; Radon-Nicodym Theorem; Fubini’s Theorem
Pre-requisite: -
Assessment Methods: written exam / assignment
Mc SHANE, E.J. “Integration”, Princeton Univ. Pres
Teaching Staff: Prof. Dr. Mahammad TAGHIYEV

MA 515 COMPLEX ANALYSIS I
3 hrs/week, theory, 3 credits, 8 ECTS credits
Objective / Contents: Complex plane and the topology of C; Differential and integral calculus of complex functions; theory of power series; Abel’s theorem; Local properties of analytic functions; Power series expantions; The Taylor, the Laurent series; The calculus of residues and applications; The general form of Cauch’s theorem; Ana introduction to analytic theory of differential equations of 2nd order .
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources: L. V.
MA 521 FUNCTIONAL ANALYSIS
3 hrs/week, theory, 3 credits, 8 ECTS credits

Objective / Contents: Normed and topological linear spaces; The Hahn-Banach theorem; The dual spaces; Banach-Alaoglu theorem, The uniform boundedness principle; The closed graph theorem; Compact and Fredholm operators; Spectral theorem for compact and bounded operators.

Pre-requisite: -
Assessment Methods: written exam / assignment

Recommended Resources:

Teaching Staff: Prof. Dr. Mahammad TAGHIYEV

MA 531 ALGEBRA I
3 hrs/week, theory, 3 credits, 6 ECTS credits

Objective / Contents: Operations of a group on a set, Sylow subgroups, Categories and functors, Solvable groups, Nilpotent groups.

Pre-requisite: -
Assessment Methods: written exam / assignment

Recommended Resources:

Teaching Staff: Asst. Prof. Dr. Didem ÖZTÜRK

MA 532 ALGEBRA II
3 hrs/week, theory, 3 credits, 3 ECTS credits

Objective / Contents: Commutative rings, Extensions of rings, Structure of rings, Introduction to field and field extensions theory.

Pre-requisite: -
Assessment Methods: written exam / assignment

Recommended Resources:
LANG, S., Algebra, Addison Wesley, USA 1997.

Teaching Staff: Asst. Prof. Dr. Didem ÖZTÜRK

MA 545 THEORY OF SURFACES
3 hrs/week, theory, 3 credits, 8 ECTS credits

Objective / Contents: Curvilinear coordinates on a surface, Fundamental magnitudes, Curves on a surface, Lines of a curvature, Asymptotic lines, Geodesics. The equations of Gauss and of Codazzi, Geodesic parallels, Bonnet’s theorem, Congruences of lines, Quadric
surfaces, Rules surfaces, Minimal surfaces.

Pre-requisite: -

Assessment Methods: written exam / assignment

Recommended Resources:
WEATHERBURN, C.E., Differential Geometry of Three Dimensions, 1930.

Teaching Staff: Asst. Prof. Dr. Nil KOFOĞLU

MA 566 NONLINEAR PROGRAMMING
3 hrs/week, theory, 3 credits, 8 ECTS credits

Objective / Contents: Convex Analysis and Convex Function The Kuhn-Tucker and Lagrangian Theorem, Quadratic Programming, Hildreth’s, Boale’s, Wolf’s Frank’s Method.

Pre-requisite: -

Assessment Methods: written exam / assignment

Recommended Resources: KUNZI, H. P., OETTCI, W., LEVIN, F., Non Linear Programming, Toronto, London.
BAZARAÇ, M., SHERAVI, H. D., Non Linear Programming.

Teaching Staff: Asst. Prof. Dr. Sezai MAKAS

MA 622 THEORY OF EXTREME PROBLEMS
3 hrs/week, theory, 3 credits, 8 ECTS credits

Objective / Contents: Introduction to convex analysis and functional analysis; The Lagrange principle for constrained problems; Applications to concrete problems

Pre-requisite: -

Assessment Methods: written exam / assignment


Teaching Staff: Prof. Dr. Mahammad TAGHİYEV

MA 631 FIELD EXTENSIONS AND GALOIS THEORY
3 hrs/week, theory, 3 credits, 8 ECTS credits

Objective / Contents: Finite and algebraic extensions, Algebraic closure, Splitting fields and normal extensions, Finite fields, Galois theory.

Pre-requisite: -

Assessment Methods: written exam / assignment


Teaching Staff: Asst. Prof. Dr. Didem ÖZTÜRK
MA 635 LIE GROUPS AND LIE ALGEBRAS
3 hrs/week, theory, 3 credits, 8 ECTS credits
Objective / Contents: Schemes, Spectrum of a Ring, Affine Schemes, General Schemes
Pre-requisite: -
Assessment Methods: written exam / assignment
Teaching Staff: Assoc. Prof. Dr. K. Ilhan İKEDA

MA 637 ALGEBRAIC GEOMETRY
3 hrs/week, theory, 3 credits, 8 ECTS credits
Objective / Contents: Schemes, Spectrum of a Ring, Affine Schemes, General Schemes
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources: MC DONALD, Algebraic Geometry: Introduction to the Language of Schemes. W.A. Benjamin 1968.
Teaching Staff: Assoc. Prof. Dr. K. Ilhan İKEDA

MA 656 EXTERIOR DIFFERENTIAL FORMS AND APPLICATIONS
3 hrs/week, theory, 3 credits, 8 ECTS credits
Objective / Contents: Differential Equation and Exterior forms, set of forms which is equivalent to a given set of differential equations, Quasilinear partial differential equations, Balance Equations, Heat Equations, Similarity Solutions, Exterior Equations, Affine Connection Isovector fields of Balance Equations, Applications to Elastodynamics.
Pre-requisite: -
Assessment Methods: written exam / assignment
Teaching Staff: Asst. Prof. Dr. Ahmet BAKKALOĞLU

DIVISION OF MATHEMATICS
DIVISION OF STATISTICS

Division Head:  
Prof. Dr. Nalan CİNEMRE

Phone: 0212 236 6936 / 162

Address:  
Mimar Sinan Fine Arts University  
Faculty of Science and Letters  
Çiğdem Sokak No. 1  
34349 Beşiktaş/İstanbul

The aim of the programme is to provide graduates from a variety of educational backgrounds with a solid foundation in business administration and management. The programme pays particular attention to maintaining a balance between exposure to theoretical perspective and in-depth analysis of real-life business practices. Class discussions and projects form a significant portion of the course-work and play a key role in expanding the participants’ critical judgement on business issues and in strengthening their interpersonal communication skills.

TEACHING STAFF

FULL TIME

Prof. Dr. Nalan CİNEMRE  

Prof. Dr. Gülây KIROĞLU  

Prof. Dr. Aydın ERAR  

Asst. Prof. Dr. Füsun DERİŞ  
Bachelor: MSÜ, 1988; Master: İstanbul
Universitesi, 1991; PhD: MSÜ, 1996.

Asst. Prof. Dr. Meral YAY  

Asst. Prof. Dr. Levend DURANSOY  

Asst. Prof. Dr. Funda SEZGİN  

PART TIME

Prof. Dr. Fatma SENYÜCEL  
Bachelor: İstanbul Üniversitesi, 1973; PhD: YTÜ, 1983.
# MASTER PROGRAMME

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# MASTER PROGRAMME ELECTIVE COURSES

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### 7. SEMESTER

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### 8. SEMESTER

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# DOCTORATE PROGRAMME ELECTIVE COURSES

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<tr>
<th>1. SEMESTER</th>
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<tbody>
<tr>
<td>IS 611 Multiobjective Programming</td>
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<td>IS 617 Biostatistics</td>
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<td>IS 623 Statistical Decision Making</td>
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<td>IS 614 Optimization</td>
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<td>IS 625 Statistical Experimental Design</td>
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<td>IS 627 Alternative Regression Methods</td>
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<td>IS 628 Bayesian Statistics Methods</td>
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COURSE CONTENTS

GRADUATE REQUIRED COURSES

IS 500 SEMINAR
2 hrs/week, non-credit, 4 ECTS credits
Objective / Contents:
Pre-requisite: -
Assessment Methods:
Recommended Resources:
Teaching Staff: Prof. Dr. Aydın ERAR

IS 513 MULTIVARIATE ANALYSIS TECHNIQUES
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: The aim of this course is to study about theory of multivariate analysis techniques and apply these techniques both on imaginary and real data sets.
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources:
Teaching Staff: Prof. Dr. Gülay KIROĞLU

IS 514 TIME SERIES ANALYSIS
3 hrs/week, theory, 3 credits, 9 ECTS credits
Objective / Contents: This course aims to provide explainity univariate stochastic and linear time series models and properties, forecasting and forecast evaluation techniques.
Pre-requisite: -
Assessment Methods: written exam / assignment
Teaching Staff: Asst. Prof. Dr. Füsun DERİLŞ

IS 516 ECONOMETRIC MODELLING
3 hrs/week, theory, 3 credits, 9 ECTS credits
Objective / Contents: this course continuing of courses “regression analysis” and “econometrics”, contains advanced techniques and theory of these courses.
Pre-requisite: -
Assessment Methods: written exam / assignment
GENÇELİ, M., Ekonometride...
**IS 521 REGRESSION THEORY AND METHODS**
3 hrs/week, theory, 3 credits, 4 ECTS credits

**Objective / Contents:** In this course, regression methods are given by general linear model theory. Topics: general regression theory and hypothesis testing, variable selection and model validation, dummy variables, problems in regression, transformations, multicollinearity and biased estimators, nonlinear regression.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**

**Teaching Staff:** Prof. Dr. Aydın ERAR

---

**ELECTIVE COURSES**

**IS 515 MARKET RESEARCH**
3 hrs/week, theory, 2 credits, 3 ECTS credits

**Objective / Contents:** This course aims to provide information to assist marketing managers to make better decisions, theoretic and applied background about market research methods, determining sample size, measurement techniques.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:**
KURTULUŞ, K., Pazarlama Araştırmaları, İ.Ü İşletme İktisatı Enstitüsü Yayın No:160, 1996.

**Teaching Staff:** Asst. Prof. Dr. Füsun DERİŞ

**IS 517 DIFFERENTIAL EQUATIONS**
2 hrs/week, theory, 2 credits, 2 ECTS credits

**Objective / Contents:** qualitative theory of differential equations, series solutions of linear differential equations, introduction partial differential equations
**Pre-requisite:** -
**Assessment Methods:** written exam / assignment

**Recommended Resources:**
ROSS, S.L., Differential Equations
PRIMA, Boyce-Di, Elementary Differential Equations and Boundary Value Problems

**Teaching Staff:** Prof. Dr. Fatma SENYÜCEL

---

**IS 519 OPERATION RESEARCH APPLICATIONS**

3 hrs/week, theory, 3 credits, 4 ECTS credits

**Objective / Contents:** This course aims to provide theoric background about quantitative methods in business, operations research, management science.

**Pre-requisite:** -
**Assessment Methods:** written exam / assignment

**Recommended Resources**


**Teaching Staff:** Prof. Dr. Nalan CINEMRE

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**IS 523 SAMPLING THEORY AND METHODS**

2 hrs/week, theory, 2 credits, 2 ECTS credits

**Objective / Contents:** This course includes advanced topics of probability theory in the undergraduate program and stochastic methods.

**Pre-requisite:** -
**Assessment Methods:** written exam / assignment

**Recommended Resources**

AKDENİZ, F., Olasılık ve İstatistik, Balı Yayını ve Dağıtım, 2002.

ROSS, S. (2004), Probability Models

**Teaching Staff:** Prof. Dr. Gülay KIROĞLU
IS 527 STATISTICAL QUALITY CONTROL
2 hrs/week, theory, 2 credits, 3 ECTS credits
Objective / Contents: This course aims to provide basic concepts of quality improvement, basic tools of statistical process control, control charts, acceptance sampling and reliability.
Pre-requisite: -
Assessment Methods: written exam / assignment
GÖZLÜ, S., Endüstriyel Kalite Kontrolü, İstanbul Teknik Üniversitesi Yayınları, İstanbul 1990.
Teaching Staff: Asst. Prof. Dr. Füsun DERİŞ

IS 531 COMPUTER APPLICATIONS IN ECONOMETRY
2 hrs/week, theory, 2 credits, 2 ECTS credits
Objective / Contents: this course continuing of courses “regression analysis” and “econometrics” in undergraduate programs contains computer applications of advanced techniques in econometric modelling with the help of package programs (spss 12.0 and eviews 4.1)
Pre-requisite: -
Assessment Methods: written exam / assignment
GÜRİŞ, S., Ekonometri Temel Kavramlar, Der Yayınları, İstanbul 2000.
Teaching Staff: Asst. Prof. Dr. Funda SEZGIN

IS 529 INSURANCE MATHEMATICS
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: financial mathematics, mortality tables and computing methods in life insurance by using mortality tables.
Pre-requisite: -
Assessment Methods: written exam / assignment

IS 533 DATA ANALYSIS
2 hrs/week, theory, 2 credits, 2 ECTS credits
Objective / Contents: This course deals with the analysis of data, concepts and methods in statistical
application. topics: general principles, initial data analysis, box plots, stem and leaf plots, transformations, two way anova by medians, m-estimators, applications.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:** HOAGLIN, D.C., Mosteller F., Tukey J.W., Understanding Robust and Exploratory Data Analysis, John Wiley and Sons, 1983.


**Teaching Staff:** Prof. Dr. Aydın ERAR

---

**DOCTORATE REQUIRED COURSES**

**IS 613 ADVANCED MATHEMATICAL STATISTICS**

3 hrs/week, theory, 3 credits, 4 ECTS credits

**Objective / Contents:** This course aims to provide modeling volatility in economic time-series data. It formalizes models of variables with exhibiting heteroskedasticity and examines a number of variants of the basic model for conditional volatility.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment


**Teaching Staff:** Prof. Dr. Aydın ERAR

**IS 619 APPLICATIONS OF MULTIVARIATE ANALYSIS**

2 hrs/week, theory, 2 credits, 2 ECTS credits

**Objective / Contents:** This course includes applications of multivariate techniques in SPSS Package Program.

**Pre-requisite:** -

**Assessment Methods:** Written exam / assignment

**Recommended Resources:**
IS 621 LINEAR AND NONLINEAR STATISTICAL MODELS
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: The aim of this course is to examine linear and non-linear models with the aid of problems. Regression, analysis of variance and experimental design included.
Pre-requisite: -
Assessment Methods: Written exam / assignment
CİNMERE, N., Doğrusal Modellere Giriş, Yayınlanmamış Ders Notu.
Teaching Staff: Prof. Dr. Nalan CİNMERE

DOCTORATE ELECTIVE COURSES

IS 611 MULTIOBJECTIVE PROGRAMMING
2 hrs/week, theory, 2 credits, 3 ECTS credits
Objective / Contents: This course aims to provide decision concepts. Non-technical overview of modern decision theory will be handled in detail. Multiobjective decision is also examined.
Pre-requisite: -
Assessment Methods: written exam / assignment
Teaching Staff: Prof. Dr. Nalan CİNMERE

IS 612 FORECASTING TECHNIQUES
3 hrs/week, theory, 3 credits, 4 ECTS credits
Objective / Contents: This course aims to provide modeling volatility in economic time-series data. It formalize models of variables with exhibiting heteroskedasticity and examine a number of variants of the basic model for conditional volatility.
Pre-requisite: -
Assessment Methods: written exam / assignment
Recommended Resources: ENDERS, W., Applied Econometric Time Series,
IS 614 OPTIMIZATION
2 hrs/week, theory, 2 credits, 3 ECTS credits

Objective / Contents: This course aims to provide the students with the tools of optimization techniques, and also importance of decisions. Various optimization groups also included.

Pre-requisite: -
Assessment Methods: written exam / assignment


Teaching Staff: Prof. Dr. Nalan CİNEMRE

IS 615 NONPARAMETRIC STATISTICS
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: The aim of this course is to examine nonparametric methods as an alternative of parametric techniques and make applications with the help of computer.

Pre-requisite: -
Assessment Methods: written exam / assignment


Teaching Staff: Prof. Dr. Gülay KIROĞLU

IS 616 STATISTICAL DECISION MAKING
2 hrs/week, theory, 2 credits, 3 ECTS credits

Objective / Contents: The aim of this course is to examine decision theory. Importance of decision will be shown with the help of business problems. Several decision situations will be examined.

Pre-requisite: -
Assessment Methods: written exam / assignment

CINEMRE, N., Doğrusal Modellere Giriş, Yayınlanmamış Ders Notu.

Teaching Staff: Prof. Dr. Nalan CINEMRE

IS 625 STATISTICAL EXPERIMENTAL DESIGN
3 hrs/week, theory, 3 credits, 3 ECTS credits

Objective / Contents: This course aims to provide a theoretical background about experimental design. The discussion of the various statistical tests presented.

Pre-requisite: -
Assessment Methods: written exam / assignment


Teaching Staff: Prof. Dr. Nalan CINEMRE

IS 627 ALTERNATIVE REGRESSION METHODS
3 hrs/week, theory, 3 credits, 4 ECTS credits

Objective / Contents: In this course, alternative regression methods as follows are given: modelling, least absolutedeviations regression, robust regression, nonparametric regression, bayesian regression, ridge and principal component regression, polynomial regression, calibration problem in regression.

Pre-requisite: IS 521
Assessment Methods: written exam / assignment


Teaching Staff: Prof. Dr. Aydı̇n ERAR

IS 628 BAYESIAN STATISTICAL METHODS
2 hrs/week, theory, 2 credits, 4 ECTS credits

Objective / Contents: this course contains bayesian theory for regression, multivariate techniques and time series analysis advanced methods.

Pre-requisite: -
Assessment Methods: written exam / assignment


Teaching Staff: Asst. Prof. Dr. Funda SEZGİN
DIVISION OF PHYSICS

Division Head:  
    Prof. Dr. Ender AKTULGA

Phone: 0212 236 6936 / 119

Address:  
Mimar Sinan Fine Arts University  
Faculty of Science and Letters  
Çiğdem Sokak No. 1  
34349 Beşiktaş/Istanbul

Note: This program will not be opened in 2007-2008 Academic year

Physics Department was founded in 1984. The Department gives support to the undergraduate programs of Faculty of Science and Letters and Faculty of Architecture. The Department started in 1999 a graduate program in applied physics.

TEACHING STAFF

FULL TIME

Prof. Dr. Bilgin AKDEMİR  
Bachelor: İstanbul Üniversitesi, 1966;  

Prof. Dr. Ender AKTULGA  
Bachelor: İstanbul Üniversitesi, 1970;  
PhD: İstanbul Üniversitesi, 1983.

Asst. Prof. Dr. Güzin SEVİN  
Bachelor: İstanbul Üniversitesi, 1970;  
Master: İstanbul Üniversitesi, 1979;  
PhD: İstanbul Üniversitesi, 1985.

Asst. Prof. Dr. Meriç BAKİLER  
Bachelor: İstanbul Üniversitesi, 1984;  
Master, İstanbul Üniversitesi, 1987;  
PhD: İstanbul Üniversitesi, 1996.
## MASTER PROGRAMME

### 1. SEMESTER

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### 2. SEMESTER

| Elective Courses                          | 11    | 30   |
| **Total**                                 | **11**| **30**|

### 3. SEMESTER

| Thesis Proposal Report (Compulsory)        | 30    |      |
| **Total**                                 | **30**|      |

### 4. SEMESTER

| Thesis (compulsory)                       | 30    |      |
| **Total**                                 | **30**|      |

## ELECTIVE COURSES

### 1. SEMESTER

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<td>FIZ 509 Computing Focused on Mathematics</td>
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<td>FIZ 511 Structure of Solids</td>
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### 2. SEMESTER

| FIZ 506 Measurement Techniques in Physics | 3     | 8    |
| FIZ 508 Spectroscopy                     | 3     | 8    |
| FIZ 510 Programming Focused on Mathematics | 3   | 8    |
| FIZ 512 Electronics of Solids            | 3     | 8    |
GRADUATE COURSES

REQUIRED COURSES

FIZ 500 SEMINAR
4 ECTS credits
Objective / Contents: 
Pre-requisite: -
Assessment Methods: 
Recommended Resources: 
Teaching Staff: 

ELECTIVE COURSES

FIZ 506 MEASUREMENT TECHNIQUES IN PHYSICS
3 hrs/week, theory, 3 credits, 8 ECTS credits
Objective / Contents: Current, voltage, electrostatic charge, temperature, pressure, force, time, frequency, pulse width, phase measurement techniques.
Pre-requisite: -
Assessment Methods: written exam / assignment
Teaching Staff: Prof. Dr. Bilgin AKDEMİR

FIZ 507 MOLECULAR VIBRATIONS
3 hrs/week, theory, 3 credits, 8 ECTS credits
Objective / Contents: Energy types of molecules, investigation of electronic, vibrational and rotational energies of molecules, and their interactions. Calculation of vibrational frequency and modes of some molecules.
Pre-requisite: Atom ve Molekül Fiziği
Assessment Methods: written exam / assignment
Teaching Staff: Asst. Prof. Dr. Meriç BAKILER

FIZ 508 SPECTROSCOPY
3 hrs/week, theory, 3 credits, 8 ECTS credits
Objective / Contents: Introduction to quantum mechanics, interaction of electromagnetic waves with matter, harmonic and anharmonic vibrations, rigid and non-rigid rotations, Born-Oppenheimer approximation.
Pre-requisite: 
Assessment Methods: written exam / assignment
Recommended Resources: BANWELL, C.N. “Fundamentals of Molecular Spectroscopy”.
CLIANG, R. “Basic Principles of Spectroscopy”.
Teaching Staff: Asst. Prof. Dr. Meriç BAKILER

FIZ 509 COMPUTING FOCUSSED ON MATHEMATICS
3 hrs/week, theory, 3 credits, 8 ECTS credits
Objective / Contents: Excel Functions, Data Query, Charts, Regression, Macros (introductory level), Using Equation Editor in Word and Excel.
Pre-requisite: -
Assessment Methods: written exam /
assignment

**Recommended Resources:** AKTULGA, E., "Excel" (Ders Notları).
UNDERDAHL, B., "Excel" (çeviri).
MICROSOFT, "Microsoft Excel Help"

**Teaching Staff:** Prof. Dr. Ender AKTULGA

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**FİZ 510 PROGRAMMING FOCUSED ON MATHEMATICS**

3 hrs/week, theory, 3 credits, 8 ECTS credits

**Objective / Contents:** VBA (Visual Basic for Applications), Excel Programming, Mathematical Algorithms.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:** AKTULGA, E. "Excel Programlama".
MICROSOFT, "Microsoft Excel Help"
YAKOWITZ&SZIDAROVSZKY, "An Introduction to Numerical Computations".
ROMAN, S., O’Reilly. “Writing Excel Macros”.

**Teaching Staff:** Prof. Dr. Ender AKTULGA

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**FİZ 511 STRUCTURE OF SOLIDS**

3 hrs/week, theory, 3 credits, 8 ECTS credits

**Objective / Contents:** Crystal structures, Interatomic forces, X-ray, neutron and electron diffraction, Lattice vibrations and thermal, acoustic and optical properties of crystals, The free-electron model of metals.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:** OMAR, A. “Elementary Solid State Physics”, Addison Wesley
HOOK and Hall. “Solid State Physics”, Wiley
HOOK and Hall (Çeviri). “Katı Hal Fiziği”, Literatür
KITTEL (çeviri). “Katı Hal Fizigiına Giris”, Güven

**Teaching Staff:** Prof. Dr. Ender AKTULGA

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**FİZ 512 / ELECTRONICS OF SOLIDS**

3 hrs/week, theory, 3 credits, 8 ECTS credits

**Objective / Contents:** Energy bands in solids, Semiconductors, Dielectric and optical properties of solids, Magnetic properties of solids.

**Pre-requisite:** -

**Assessment Methods:** written exam / assignment

**Recommended Resources:** OMAR, A. “Elementary Solid State Physics”, Addison Wesley
HOOK and Hall. “Solid State Physics”, Wiley
HOOK and Hall (Çeviri). “Katı Hal Fiziği”, Literatür
KITTEL (çeviri). “Katı Hal Fizigiına Giris”, Güven

**Teaching Staff:** Prof. Dr. Ender AKTULGA
DIVISION OF COMPUTER-AIDED ART AND DESIGN

Division Head: Prof. Dr. İbrahim ATAÇ

Phone: 0212 252 16 00 / 280

Address: Mimar Sinan Fine Arts University Meclis-i Mebusan Caddesi 34427, Fındıklı ISTANBUL

Computer-aided art and design graduate program is established as an interdisciplinary study program to develop innovative ideas regarding the use of digital technologies in art and design domains. Students in the program can develop expertise and conduct in the areas of Multimafia, Animation and Online Technologies.

TEACHING STAFF

FULL TIME

Prof. Dr. İbrahim ATAÇ

Prof. Süleyman BELEN

Doç. Dr. Salih OFLUOĞLU
Bachelor: İTÜ, 1991; Assoc. Prof.: Asst. Prof. Dr. M. Turgay GÖKÇEN

Asst. Prof. Dr. İrfan AYDİN
Bachelor: D.G.S.A.

PART TIME

Prof. Dr. Mitat UYSAL

Asst. Prof. Dr. A. Erdem ERBAŞ

Inst. Korhan AKBAYTOGAN

Inst. İrfan SAYAR

Inst. Salih AKKEMİK

Inst. Kemal ŞAHİN
# MASTER PROGRAMME

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<td>BS 503 Research Methods</td>
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<td>BS 505 Multimedia Practice Project</td>
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<tr>
<td>BS 500 Seminar</td>
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<tr>
<td>BS 502 Computer Aided Art and Design II</td>
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<td>BS 504 Postgraduate Research Studies</td>
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# MASTERS PROGRAMME ELECTIVE COURSES

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<tr>
<td>BS 533 Web Design</td>
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<tr>
<td>BS 535 Introduction to Computer Animation</td>
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<tr>
<td>BS 534 Advanced Web Design</td>
<td>2</td>
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<tr>
<td>BS 536 3D Computer Animation</td>
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COURSE CONTENTS

REQUIRED COURSE

BS 500 SEMINAR
3 hours/week, non-credit, 4 ECTS
Objective / Contents: New topics that have to do with IT, design and art are introduced based on the theme selected for the semester. The goal with the course is to acknowledge students with new conceptual and technological developments in their research area. Speakers within and outside the university are invited to give lectures, and students are also encouraged to present their research projects.
Pre-requisite:
Assessment Methods:
Recommended Resources:
Teaching Staff: Asst. Prof. Dr. Turgay GOKÇEN

BS 501 COMPUTER AIDED ART AND DESIGN I
4 hours/week, theory+practice, 3 credits, 8 ECTS
Objective / Contents: In this course geometric modeling concepts and techniques are taught using vectorial CAD and 3D modeling software. The role of the computer in art and design is discussed. Students are exposed to different computer-aided modeling tools and environments.
Pre-requisite:
Assessment Methods:
Recommended Resources:
Teaching Staff: Assoc. Prof. Dr. Salih OFLUOĞLU

BS 502 COMPUTER AIDED ART AND DESIGN II
4 hours/week, theory+practice, 3 credits, 8 ECTS
Objective / Contents: 2D raster based technologies will be taught in this course using several image processing software. Components of electronic visual composition and their perception through various electronic media will be examined.
Pre-requisite:
Assessment Methods:
Recommended Resources:
Teaching Staff: Inst. Korhan AKBAYTOĞAN

BS 503 RESEARCH METHODS
3 hours/week, theory, 3 credits, 6 ECTS
Objective / Contents: This course introduced research terminologies and tools, and qualitative and quantitative research methods. By integrating research articles and previous thesis works, the course is intended to improve students’ skills in analytical questioning and conducting independent research projects. Plagiarism and other ethical issues in research are discussed. The department’s academic staff and outside speakers are invited to inform students with their expertise areas and research experiences. In this way, students get the chance of better knowing the staff and finding a suitable one(s) to work with for their master’s thesis.
Pre-requisite:
Assessment Methods:
Recommended Resources:
Teaching Staff: Prof. Dr. İbrahim ATAÇ

BS 504 POSTGRADUATE RESEARCH STUDIES
4 hours/week, theory, 4 credits, 10 ECTS
Objective / Contents: This course is conducted between the student and his/her advisor individually. Both work together to develop the student’s ideas regarding his/her thesis research. The goal with the course is to produce a research proposal that will guide the student throughout his/her thesis research.
Pre-requisite: BS503
Assessment Methods:
Recommended Resources:
Teaching Staff: Prof. Dr. İbrahim ATAÇ, Prof. Şüleyman BELEN, Assoc.
BS 505 MULTIMEDIA PROJECT STUDIO
8 hours/week, theory, 4 credits, 8 ECTS

Objective / Contents: This course encourages the use of multimedia tools and techniques in exploratory project areas. Students investigate to solve design problems given to them and prepare a multimedia presentation for their projects.

Pre-requisite: -

Assessment Methods: assignment

Recommended Resources: Teaching Staff: Prof. Dr. İbrahim ATAÇ, Inst. Korhan AKBAYTOGAN

BS 533 WEB DESIGN
3 hours/week, theory+practise, 2 credits, 4 ECTS

Objective / Contents: This is an introduction course in web design. The course teaches basic working scheme of the Internet and World Wide Web, fundamental tools and technologies for designing web pages as well as design rules in constructing web pages and sites. The technologies to be reviewed are Hypertext Mark-up Language (HTML), Cascading Style Sheets (CSS), Web page editors and Flash tools.

Pre-requisite: -

Assessment Methods: Recommended Resources: Teaching Staff: Inst. Salih AKKEMİK, Inst. Kemal ŞAHİN

BS 534 ADVANCED WEB DESIGN
3 hours/week, theory+practise, 2 credits, 4 ECTS

Objective / Contents: This course deals with programming and database aspects of web designing. Ways of adding interactivity to web pages, data retrieval issues in web databases and issues regarding e-commerce will be discussed. JavaScript, Java, XML, ASP, PhP and various web database tools will be presented.

Pre-requisite: BS 533 or equivalent

Assessment Methods: Recommended Resources: Teaching Staff: Prof. Dr. Mitat UYSAL

BS 535 INTRODUCTION TO COMPUTER ANIMATION
3 hours/week, theory+practise, 2 credits, 4 ECTS

Objective / Contents: This course is an introduction to computer animation. Basic theory and history of 2D animation, traditional and computer-aided drawing methods, a review of existing software and hardware animation tools, storyboarding, development of characters, principles of movement, adding effects and sound into animations are among the issues explored in the course.

Pre-requisite: -

Assessment Methods: Recommended Resources: Teaching Staff: Inst. İrfan SAYAR

BS 536 3D COMPUTER ANIMATION
3 hours/week, theory+practise, 2 credits, 4 ECTS

Objective / Contents: This course deals with 3D animation techniques. It requires a reasonable knowledge of 3D geometric modeling. Basics of 3D computer animation, keyframe, path-based and non-linear animation techniques, character animation, compositing, lighting, texturing and camera shoots are examined in the course.

Pre-requisite: BS 501, BS 535 or equivalent

Assessment Methods: Recommended Resources: Teaching Staff: Assoc. Prof. Dr. Salih OFLUOĞLU