

MIMAR SINAN FINE ARTS UNIVERSITY

INSTITUTE OF SCIENCE AND TECHNOLOGY

Director of Institute: Prof. Dr. Güzin KONUK
Assistant Director: Assoc. Prof. Dr. Deniz İNCEDAYI
Assistant Director: Assoc. Prof. Dr. Sema ERGÖNÜL
Executive Secretary: Sevim KAVRUT

Meclis-i Mebusan Caddesi 34427, Fındıklı İSTANBUL
Tel: 0212 252 1600 / 248 e-mail: fenbil@msu.edu.tr

The Institute of Science and Technology offers graduate studies leading to the degrees of Master of Science, Doctor of Philosophy and Doctorate in Fine 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.

DEGREES OFFERED

Divisions	Graduate Study	Ph.D / Doctorate in Art
Architecture	MSc	PhD
Interior Architecture	MSc	DFA/ PhD
Urban and Regional Planning	MSc	PhD
Industrial Design	MSc	PhD
Structural Engineering	MSc	PhD
Mathematics	MSc	PhD
Statistics	MSc	PhD
Physics	MSc	PhD
Computer-Aided Art and Design	MSc	---

REQUIRED CREDITS FOR GRADUATION

GRADUATE

TOTAL CREDITS : 21 MSGSU, 1 Seminar; 120 ECTS

PhD / DOCTORATE IN ART

TOTAL CREDITS : 21 MSGSU; 240 ECTS

MİMAR SİNAN FINE ARTS UNIVERSITY

**INSTITUTE OF
SCIENCE AND
TECHNOLOGY**

**FACULTY OF
ARCHITECTURE**

**FACULTY
OF FINE
ARTS**

**FACULTY
OF SCIENCE
AND
LETTERS**

**INSTITUTE
OF SOCIAL
SCIENCES**

**VOCATIONAL
SCHOOL**

**STATE
CONSERVATORY**

DIVISION OF ARCHITECTURE

**BUILDING
SCIENCE**

**BUILDING
TECHNOLOGY**

**HISTORY OF
ARCHITECTURE**

**RESTORATION-
CONSERVATION
AND
RENOVATION**

**RESTORATION-
EVALUATION
OF HISTORIC
URBAN SITES**

**ARCHITECTURAL
DESIGN ISSUES**

**BUILDING
PHYSICS
AND
MATERIALS**

DIVISION OF INTERIOR ARCHITECTURE

DIVISION OF URBAN AND REGIONAL PLANNING

URBAN DESIGN

**URBAN
PLANNING**

**URBAN
CONSERVATION**

DIVISION OF INDUSTRIAL DESIGN

DIVISION OF STRUCTURAL ENGINEERING

**STRUCTURAL
ENGINEERING**

**CONSTRUCTION
PROJECT
MANAGEMENT**

DIVISION OF MATHEMATICS

DIVISION OF STATISTICS

DIVISION OF PHYSICS

COMPUTER AIDED ART AND DESIGN

DIVISION OF ARCHITECTURE

Division Head: Prof. Dr. Kemal ÇORAPÇIOĞLU

BUILDING DESIGN, THEORY AND METHODOLOGY PROGRAM

Program Head: Prof Nursel ONAT

Tel: 0212 252 16 00 / 285

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 criterias. 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, Mimarlık Bölüm Başkanı, Mimarlık Anabilim Dalı Başkanı
Y. Mimar; D.G.S.A. 1965, Doçent; 1989, Profesör; 2000

Assist. Prof. Dr. N. Oğuz Özer,
Y. Mimar; M. S. Ü. 1985; Doktora. M.S.Ü. 1996. Yardımcı Doçent;1998

Assist. Prof. Dr. F. Gülşen Gülmez,
Y. Mimar; M.S.Ü. 1985, Doktora. M.S.Ü. 1996. Yardımcı Doçent;1998

Assist. Prof. Dr. Kayahan Türkantoz,
Mimar; M.S.Ü. 1987, Y. Mimar ; M.S.Ü. 1987, Doktora ; M.S.Ü. 2000., Yardımcı Doçent;2001

Assist. Prof. Dr. Figen KAFESÇİOĞLU
Y. Mimar, M.S.Ü. 1986, Doktora ; M.S.Ü. 2001, Yardımcı Doçent; 2002

Assist. Prof. Dr. Kerem ÖZEL
Mimar; MSÜ. 1995, Y. Mimar, M.S.Ü. 1998, Doktora ; M.S.Ü. 2004, Yardımcı Doçent; 2006

Assist. Prof. Dr. Kaya SÖNMEZLER
Mimar; MSÜ. 1989, Y. Mimar, M.S.Ü. 1995, Doktora ; M.S.Ü. 2003, Yardımcı Doçent; 2005

Assist. Prof. Dr. Derin ÖNCEL
Mimar; M.S.Ü. 1989, Y. Mimar; M.S.Ü. 1992, Doktora; Université Paris-8, 2002, Yrd. Doç. ; 2004

PART TIME

Prof. Esad SUHER
Y. Mimar; D.G.S.A. 1957, Doçent; 1969, Profesör; 1978

Prof. Mete ÜNAL
Y. Mimar; D.G.S.A. 1960, Doçent; 1974, Profesör; 1991

Prof. Dr. İbrahim ATAÇ
Mimar; İ.T.Ü. 1975, Y. Mühendis; Viyana Teknik Üniversitesi. 1977. Doçent; 1994, Profesör; 2000

COURSES

GRADUATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
BB 500 Seminar	0	5	BB 592 Project	4	10
BB 591 Project	4	10	Elective Courses		20
Elective Courses		15			
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis (compulsory)		30
Total		30	Total		30

DOCTORATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
Elective Courses		30	Elective Courses		30
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)		30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)		30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report 3 (compulsory)		30	Thesis and thesis defend		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
BB 503 Residential Buildings	2	5	BB 504 Planning Principles of Office Buildings	2	5
BB 505 Education Buildings	2	5	BB 506 Dormitory Buildings	2	5
BB 507 Tourism Buildings	2	5	BB 508 Determination of the Typology of Housing According to Requirements of Inhabitants	2	5
BB 519 Land and Sea Transportation Buildings	2	5	BB 520 The Concept of Space in Building Design	2	5
BB 523 Computer-Aided Design	2	5	BB 524 Topography As a Design Factor in Architecture	2	5
BB 527 Continuity in Architecture	2	5	BB 532 Factors Forming the Identity of the Urban and Architectural Spaces: Examples from the Eastern Mediterranean	2	5
BB 533 The Concept of Contrast in Building Design	2	5	BB 534 Typology Of Residential Architecture	2	2
BB 535 Residential Living Of Elderly People In The Environment-Behavior Context	2	2	BB 536 Flexibility in Architecture	2	5

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: -

Assesment methods: written exam / homework

Teaching Staff: Prof. Mete ÜNAL

BB 591 PROJECT

8 hrs/week, Studio, 4 credits, 10 ECTS credits

Objective / Contents: Designing of an architectural project on the student's research field.

Pre-requisite: -

Assesment methods: submission of a project / homework

Recommended Resources: Tasarımla ilgili yayınlar

Mimari periyodik yayınlar

Teaching Staff: Prof. Nursel ONAT, Prof. Mete ÜNAL, Prof. Esad SUHER, Assist. Prof. Dr. Gülşen GÜLMEZ, Assist. Prof. Dr. Oğuz ÖZER

BB 592 PROJECT

8 hrs/week, Studio, 4 credits, 10 ECTS credits

Objective / Contents: Designing of an architectural project on the student's research field.

Pre-requisite: -

Assesment methods: submission of a project / homework

Recommended Resources: Tasarımla ilgili yayınlar

Mimari periyodik yayınlar

Teaching Staff: Prof. Nursel ONAT, Prof. Mete ÜNAL, Prof. Esad SUHER, Assist. Prof. Dr. Gülşen GÜLMEZ, Assist. 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: -

Assesment methods:written exam/homework

Recommended Resources:

Teaching Staff: Prof. Esad SUHER

BB 504 PLANNING PRINCIPLES OF OFFICE BUILDINGS

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

Objective / Contents: Typology of office buildings and site analysis. Functional organization of office spaces: Types of plans, common areas of office buildings. Investigation of environmental and technical conditions of office spaces.

Pre-requisite: -

Assesment methods:written exam/homework

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: -

Assesment methods:written exam/homework

Recommended Resources:

Teaching Staff: Prof. Mete ÜNAL

BB 506 DORMITORY BUILDINGS

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

Objective / Contents: Dormitory buildings and their historical development. Introduction of the determinants of dormitory planning. Comparison of world wide examples of dormitories and dormitories in Turkey. Contemporary approaches in dormitory design. Investigation of the principles of dormitory design in Turkey.

Pre-requisite: -

Assesment methods:written exam/homework

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: -

Assesment methods:written exam/homework

Teaching Staff : Assist. 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: -

Assesment methods:written exam/homework

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: -

Assesment methods:written exam/homework

Recommended Resources:

Teaching Staff: Prof. Esad SUHER

BB 520 THE CONCEPT OF SPACE IN BULDING DESIGN

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

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

Pre-requisite: -

Assesment methods:written exam/homework

Recommended Resources: GÜLMEZ, G., “Boşluk Kavramı ve Mimari Tasarımdaki Yeri”, MSÜ Fen Bilimleri Enstitüsü, 1996, İstanbul

BİNAN, D., Güzelyurt örneğinde, Kapadokya Bölgesi Yığma Taş Konut Mimarisinin Korunması için bir Yöntem Araştırması, Doktora Tezi, YTÜ Fen Bilimleri Enstitüsü, 1994

CHING, F.D.K., Architecture: Form, Space & Order, New York, Von Nostrand Reinhold Company, 1979

Teaching Staff : Assist. Prof. Dr. Gülşen GÜLMEZ

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: -

Assesment methods:written exam/homework

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: Investigaton of topographic data as a design factor.

Pre-requisite: -

Assesment methods:written exam/homework

Recommended Resources: SCULLY, V., "The Natural and the Manmade", London, Harvill, 1991

RADT, W., "Landscape and Greek Urban Planning", City and Nature Changing Relations in Time and Space, Denmark Odense University Press, s.:2001-210

MARTINSEN, R.D., "The Idea of Space in Greek Architecture", Johannesburg, Witwaterstand University, 1958

Teaching Staff: Assist. Prof. Dr. Oğuz ÖZER

BB 527 CONTINIUIY 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: -

Assesment methods:written exam/homework

Recommended Resources: LYNCH, K., "Good City Form", Cambridge, 19. Edition, M.I.T. Press, 1988

KOSTOF, S., "Das Gesicht der Stadt, Geschichte Staedtischer Vielfalt", Frankfurt, Campus Verlag, 1962

KRIER, R., "Architecture and Urban Design", Architectural Monographs No:30, Londra, Academy Editions, 1993

MARTIN, R., "Architecture et Urbanisme", Ecole Française de Rome, 1987

Teaching Staff: Assist. 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: -

Assesment methods:written exam/homework

Recommended Resources: The Aegean, The Epicenter of Greek Civilization, Atina 1997, 2.basım

Greek Traditional Architecture, Aegean:Cyclades, Atina 1983

ERPI, F., Buca'da Konut mimarisi (1838-1934), ODTÜ, Ankara 1987

KÜÇÜKERMEN, Ö., Geleneksel Türk Evinde Mekan Organizasyonu Açısından Odalar, İstanbul 1973

KÜÇÜKERMEN, Ö., Kendi Mekanının Arayışı İçinde Türk Evi, 4.basım, İstanbul 1991

KÜÇÜKERMEN, Ö., Anadolu Mirasında Türk Evleri, İstanbul 1995

KUBAN, D., Türk Hayat'lı Evi, İstanbul 1995

Teaching Staff: Assist. 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 bulding design methodology according to different interpretations of the architect in design process.

Pre-requisite: -

Assesment methods:written exam/homework

Recommended Resources: GÜLMEZ, G., “Boşluk Kavramı ve Mimari Tasarımdaki Yeri”, MSÜ Fen Bilimleri Enstitüsü, 1996, İstanbul

ÖZER, M., Temel Tasarımda Zıtlık İlkesi, İ.D.T.G.S.Y.O., Sanatta Yeterlilik Tezi, 1981

RASMUSSEN, S., Yaşanan Mimari, Remzi Kitabevi, İstanbul, 1994

VENTURI, R., Mimarlıkta Karmaşıklık ve Çelişki, Şevki Vanlı Mimarlık Vakfı Yayınları, 1991

ZEVI, B., Mimariyi Görmeyi Öğrenmek, Birsen Yayınevi, 1990

Teaching Staff : Assist. Prof. Dr. Gülşen GÜLMEZ

BB 534 TYPOLOGY 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 chozen geographic area, the effects of urban morphology on the types of housing throughout the history and different life styles.

Pre-requisite: -

Assesment methods:written exam/homework

Recommended Resources: AREL Ayda, *Onsekinci Yüzyıl İstanbul Mimarisinde Batılılaşma* İTÜ Mimarlık Fakültesi, İstanbul, 1975.

ELDEM Sedat Hakkı, *Türk Evi, Osmanlı Dönemi*, La maison Turque, la période de l'Empire ottoman Tôme I, İstanbul, Ali Rıza Baskan Güzel Sanatlar Matbaası A.Ş., 1984.

ELDEM Sedat Hakkı, *Türk Evi, Osmanlı Dönemi*, La maison Turque, la période de l'Empire ottoman Tôme II, İstanbul, Ali Rıza Baskan Güzel Sanatlar Matbaası A.Ş., 1986.

ÇELİK Zeynep, *Değişen İstanbul - Remaking of Istanbul Portrait of an Ottoman City in the Nineteenth Century*, traduit par Selim Deringil, İstanbul, Tarih Vakfı Yurt Yayınları, 1996, 138 p.

ÜNAL Mete, “Türkiye’de apartman olgusunun Gelişimi: İstanbul örneği”, *Çevre*, no.4, 1979.

YERASIMOS Stéphane, “A propos des réformes urbaines des Tanzimat” in *Villes Ottomanes à la fin de l'Empire* sous la direction de P. DUMONT, F. GEORGEON, Paris, l'Harmattan, 1992, pages 17-32.

YERASİMOS Stéphane, “Occidentalisation de l'espace urbain : İstanbul 1839-1871”, in *Les Villes dans l'Empire Ottoman: Activités et Sociétés*, Tome 1, sous la direction de Daniel PANZAC, Editions CNRS, 1991, pages 97-131.

CASTEX Jean, PANERAI Philippe, “Notes sur la structure de l'espace urbain”, *Architecture d'Aujourd'hui*, no: 153, Decembre 1970-Janvier 1971, pages 30-33.

PANERAI Philippe, CASTEX Jean, DEPAULE Jean-Charles, *Formes urbaines de l'ilôt à la barre*, Marseilles, Edition Parenthèses, 1997.

Teaching Staff : Assist. Prof. Dr. Derin Öncel

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: -

Assesment methods:written exam/homework

Recommended Resources: LANG, J. „Creating Architectural Theory“, Van Nostrand Reinhold, NY, 1987

ZEVI, B. „Mimariyi Görmeyi Öğrenmek“, Birsen yayınevi, İstanbul, 1990

DEHAN, P. „L'habitation des Person Agees“, Le Moniteur, Pparis,1995

İMAMOĞLU, E.O. ve İMAMOĞLU, V. , Yaşlıların Yaşam Çevreleri, Diğerlerinin Konut Sorunları, Sempozyum Bildiri Kitabı, 1995.

LEHR, U. , „Yaşlanmanın Psikolojisi“ Neylan Eryar (çev.) Bilimsel ve Teknik Yayınları Çeviri Vakfı, İstanbul, 1994

Teaching Staff: Assist. Prof. Dr. Figen KAFESCİOĞLU

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: -

Assesment methods: written exam and homework

Recommended Resources: Colquhoun, Alan, “Mimari Eleştiri “Mimari Eleştiri Yazıları”, Çev: A. Cengizkan, Şevki Vanlı Mimarlık Vakfı Yayınları, Ankara 1990

Forty, Adrian, “Words and Buildings: A Vocabulary of Modern Architecture”, Thames & Hudson, May 2004

Frampton, K., “Modern Architecture: A Critical History”, Thames and Hudson, London 1980.

Giedion, Siegfried, “Space, Time and Architecture”, Harvard University Press, ABD 1982

Goldhagen, S.W.; Legault, R., “Anxious Modernisms, Experimentation in Postwar Architectural Culture”, CCA/MIT, ABD 2000

Hays, K. Michael, “Oppositions Reader: Selected Readings from a Journal for Ideas and Criticism in Architecture 1973 – 1984”, Princeton Architectural Press, New York 1998

Lüchinger, Arnulf, “Structuralism In Architecture and Urban Planning”, Karl Krämer Verlag, Stuttgart 1981

Maki, Fumihiko, “Investigations in Collective Form”, Washington University School of Architecture, ABD 1964.

Smithson, Alison, “Team 10 Meetings”, Rizzoli, New York 1991

Zevi, Bruno, “The Modern Language Of Architecture, Da Capo Press, ABD 1994

Teaching Staff : Assist. Prof. Dr. Kaya SÖNMEZLER

CONSTRUCTION TECHNOLOGY PROGRAM

Program Head: Prof. Aydan ÖZGEN

Tel: 0212 252 16 00 / 279

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

Y. Mimar ; İ.T.Ü. 1967, Doçent; 1989, Profesör; 1998

Assist. Prof. Dr. Suat Çakır,

Y. Mimar ; D.G.S.A. 1981; Doktora. M.S.Ü. 2000., Yardımcı Doçent; 2001

Yrd. Doç. Dr İlkay Koman,

Mimar ; M.S.Ü. 1992, Y. Lisans ; M.S.Ü. 1997 ; Doktora. M.S.Ü. 2002. Yardımcı Doçent; 2002

Assist. Prof. Dr. Özlem Eşşiz,

Mimar ; M.S.Ü. 1992, Y. Lisans ; M.S.Ü. 1997 ; Doktora. M.S.Ü. 2002, Yardımcı Doçent; 2002

Assist. Prof. Dr. Ayşin Sev,

Mimar ; M.S.Ü. 1994, Y. Lisans ; M.S.Ü. 1997 ; Doktora ; M.S.Ü. 2001., Yardımcı Doçent; 2002

Assist. Prof. Dr. Berrin Şahin,

Mimar ; M.S.Ü. 1994, Y. Lisans ; M.S.Ü. 1997 ; Doktora ; M.S.Ü. 2002. Yardımcı Doçent; 2002

Öğr. Gör. Dr. Ömer DENİZ

Mimar ; M.S.Ü. 1984, Y. Lisans ; M.S.Ü. 1987 ; Doktora ; M.S.Ü. 2000

PART TIME

Prof. Dr. Özer Erenman, Rektör Yardımcısı

Y. Mimar ; D.G.S.A. 1964, Doktora ; D.G.S.A. 1973, Doçent ; D.G.S.A. 1975, Profesör ; M.S.Ü. 1991

COURSES

GRADUATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
YB 500 Seminar	0	4	YB 592 Project	3	10
YB 591 Project	3	10	Elective Courses		20
Elective Courses		16			

Total	30	Total	30
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3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis (compulsory)		30
Total		30	Total		30

DOCTORATE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
YB 691 Project	3	10	YB 691 Project	3	10
Elective Courses		20	Elective Courses		20
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)		30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)		30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report 3 (compulsory)		30	Thesis and thesis defend (compulsory)		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
YB 502 Wooden Prefabricated Systems	3	3	YB 502 Wooden Prefabricated Systems	3	3
YB 519 Prefabrication in Reinforced Concrete Construction	2	4	YB 522 Adoption of Prefabricated Reinforced Concrete Systems on Building Typology	2	4
YB 521 Steel Construction Systems in Hightech Buildings	2	4	YB 524 Integration of Construction Subsystems	2	4

YB 525 Introduction to Tunnel Formwork Technology	2	4	YB 526 The Process of Property Development	2	4
YB 528 Composite Structural Systems	2	4	YB 528 Composite Structural Systems	2	4
YB 530 Comparative Analysis and Assessment Criteria in Timber Structural Systems	3	4	YB 530 Comparative Analysis and Assessment Criteria in Timber Structural Systems	3	4
YB 531 Open Building	2	2	YB 531 Open Building	2	2
YB 532 Space Enclosing Elements	2	2	YB 532 Space Enclosing Elements	2	2
YB 533 Building Element Design	2	2	YB 533 Building Element Design	2	2

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/homework

Teaching Staff: Prof. Dr. Özer ERENMAN, Prof. Aydan ÖZGEN, Assist. Prof. Dr. Suat ÇAKIR, Assist. Prof. Dr. Özlem EŞSİZ, Assist. Prof. Dr. İlkay Mert KOMAN, Assist. Prof. Dr. Ayşin SEV, Assist. Prof. Dr. Berrin ŞAHİN, Öğr. Gör. Dr. Ömer DENİZ

YB 591 PROJECT

6 hrs/week, Studio, 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, Assist. Prof. Dr. Suat ÇAKIR, Assist. Prof. Dr. Özlem EŞSİZ, Assist. Prof. Dr. İlkay Mert KOMAN, Assist. Prof. Dr. Ayşin SEV, Assist. Prof. Dr. Berrin ŞAHİN, Öğr. Gör. Dr. Ömer DENİZ

YB 592 PROJECT

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

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, Assist. Prof. Dr. Suat ÇAKIR, Assist. Prof. Dr. Özlem EŞSİZ, Assist. Prof. Dr. İlkay Mert KOMAN, Assist. Prof. Dr. Ayşin SEV, Assist. Prof. Dr. Berrin ŞAHİN, Öğr. Gör. Dr. Ömer DENİZ

ELECTIVE COURSES

YB 502 WOODEN PREFABRICATED SYSTEMS

2 hrs/week, Theory, 2 credits, 4 ECTS credits.

Objective / Contents:

Pre-requisite: --

Assessment methods: homework

Recommended Resources:

Teaching Staff: Assist. 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 seminar studies .

Pre-requisite: --

Assessment methods: homework

Recommended Resources: MERT, İ., “Yarı Açık Prefabrike Taşıyıcılı Bir Konut Sistemine Uyarlanabilen Cephe Panelleri Üzerine Bir Araştırma”, Yüksek Lisans Tezi, M.S.Ü. Fen Bilimleri Enstitüsü, İstanbul, 1996.

AYAYDIN, Y., “Taşıyıcı Duvar Perdeli Prefabrike Betonarme Yapılar”, Yılmaz Ofset Matbaası, İstanbul, 1987.

AYAYDIN, Y., “Betonarme Çok Katlı Prefabrike İskelet Sistemler – Değerlendirme Önerileri” (cilt 2), Kurtiş Matbaası, İstanbul, 1992.

GIBB, A. G. F., “Off-site Fabrication”, John Wiley & Sons, Inc., J. W. Arrowsmith Ltd., Bristol, 1999.

NISSEN, H., “Industrialized Building and Modular Design”, Cement and Concrete Association, London, 1972.

Teaching Staff: Assist. Prof. Dr. İlkay Mert 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, fenicular systems, arches.

Pre-requisite: none

Assessment methods: homework

Recommended Resources: EŞSİZ, Ö., “İleri Teknoloji Yapılarının Alt Sistemlerinin Bütünleştirilmesi”, Doktora Tezi, MSÜ, Fen Bilimleri Enstitüsü, 2002.

HART, F., Henn, W., Sontag, H., “Multistory Building in Steel”, Collins, Londra, 1985.

TARANATH, B., “Steel, Concrete and Composite Design of Tall Buildings”, McGraw Hill, New York, 1997.

MACDONALD, A., “Structural Design for Architecture”, Architectura Press, Oxford, 1997.

PATRICK, J., Knowles, P., Owens, W. Graham, “Structural Steel Design”, The Steel Construction Institute, 1988.

Teaching Staff: Assist. Prof. Dr. Özlem EŞSİZ

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 seminar studies of technology possibility, planning, arrangement possibility and subsystems are carried out.

Pre-requisite: -

Assessment methods: homework

Recommended Resources: AYAYDIN, Y., “Betonarme Çok Katlı Prefabrikte İskelet Sistemler - Değerlendirme Önerileri” (cilt 2), Kurtiş Matbaası, İstanbul, 1992.

AYAYDIN, Y., “Betonarme Çok Katlı Prefabrikte İskelet Sistemler – Sistemlerin tanıtımı” (cilt 1), Kurtiş Matbaası, İstanbul, 1992.

AYAYDIN, Y., Deniz, Ö. Ş., ve Mert, İ., “Toplu Konut Üretimine Yönelik, Betonarme Önüretimli Bir Yapısal Mekano Önerisi”, TÜBİTAK, İNTAG-TOKİ 525, İstanbul, 1996

MERT, İ., “Betonarme Prefabrikte Yapım Sistemlerinin İlköğretim Binalarına Uyabilirlik Olanaklarının Değerlendirilmesine Yönelik Kriterler”, Doktora Tezi, MSÜFBE, İstanbul, 2001.

GIBB, A. G. F., “Off-site Fabrication”, John Wiley & Sons, Inc., J. W. Arrowsmith Ltd., Bristol, 1999.

Teaching Staff: Assist. Prof. Dr. İlkay Mert 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: homework

Recommended Resources: EŞSİZ, Ö., “İleri Teknoloji Yapılarının Alt Sistemlerinin Bütünleştirilmesi”, Doktora Tezi, MSÜ, Fen Bilimleri Enstitüsü, 2002.

RUSH, R., “The Building Systems Integration Handbook”, AIA, Butterworth Architecture, Boston, 1986.

MERRIT, F., Ambros, J., “Building Engineering and System Design”, Van der Nostrand Reinhold, New York, 1990.

GRAS, F.K., Armer, G.S., Clarke, S.C., “Building in the Future, Innovation Design Materials and Construction”, EF&Spon, Londra, 1994.

Teaching Staff: Assist. Prof. Dr. Özlem EŞSİZ

YB 525 INTRODUCTION TO TUNNEL FORMWORK TECHNOLOGY

2 hrs/week, Theory, 3 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 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.

Ön koşul: --

Assessment methods: written exam and homework

Recommended Resources: ŞAHİN, B., (1997). Tünel Kalıplı Teknolojilerin Getirdiği Olanak ve Kısıtlamaların Ataşehir Örneği Üzerinde İrdelenmesi, MSÜ, Fen Bilimleri Enstitüsü.

ALTAN, M., (1992). Betonarme Elemanlarda Kalıp, İTÜ İnş. Fak. Matbaası, İstanbul.

OBERLENDER, G. D., Petrifoy, R.L.,(1997). Formwork for Concrete Structures, Roetledge mot, EF&Spon.

Teaching Staff: Assist. 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. Than, 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 the project.

Pre-requisite: --

Assessment methods: homework

Recommended Resources: ŞAHİN, B., "Alışveriş Merkezi Yatırımlarının Türkiye Koşullarında İrdelenmesi ve Antalya Örneği", Doktora Tezi, MSÜ, Fen Bilimleri Enstitüsü, 2001.

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

ISAAC, D., "Property Development: Appraisal and Finance". London, Macmillan Press Ltd., 1996.

HOESLI, M., Macgregor, B.D., "Property Investment". England: Pearson Education Limited, 2000.

RATCLIFFE, J., Stubbs, M., "Urban Planning and Real Estate Development", The Natural Built Environment, 1999.

Teaching Staff: Assist. 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, cloumns 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 / homework

Recommended Resources: TARANATH, B.S., "Steel, Concrete and Composite Design of Tall Buildings", McGraw Hill, Inc., 1997.

ÖZGEN, A., Sev, A., "Çok Katlı Yüksek Yapılarda Taşıyıcı Sistemler", Birsen Yayınevi, 2000.

ALI, M.M., Armstrong, P.J., "Architecture of Tall Buildings", CTBUH, McGraw Hill Inc., New York, 1995.

SEV, A., "Türkiye'de ve Dünyadaki Yüksek Yapıların Mimari ve Taşıyıcı Sistem Açısından Analizi", Doktora Tezi, MSÜ Fen Bilimleri Entitüsü, 2001.

Teaching Staff: Assist. 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: yazılı sınav ve ödevler

Recommended Resources:

Teaching Staff: Assist. Prof. Dr. Suat ÇAKIR

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 and homework

Recommended Resources: Beisi, J., "Housing Adaptability Design", ETH Zurich, Post-doctoral Thesis, Zurich, 1994.
Brand, S., "How Building Learn: What happens after they're built", Viking, New York, 1994.
Deniz, Ş.Ö., "Çok Katlı Konutlarda Değişebilirlik Sağlama Stratejisi:Yapı Elemanlarının Hiyerarşik Organizasyonu Yaklaşımı",Tasarım ve Kuram Dergisi,No.3,MSÜ, İstanbul, 2003.
Habraken, N.J., "Variations: The Systematic Design of Supports", MIT, Cambridge, 1976.
Habraken, N.J., "The Structure of the Ordinary , Form and Control in the Built Environment", MIT Press, Cambridge and London, 1998.
Teaching Staff: Öğr. Gör. Ömer DENİZ

YB 532 SPACE ENCLOSING ELEMENTS

3 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 and homework

Recommended Resources: Allen, W., "Envelope Design for Buildings", Oxford, 1997.

Blanc, A., "Internal Components", Longman Ltd., 1994.

Christian, S., "Glass Construction Manual", Birkhauser, 1999.

Dickinson, D., "Expressive Details:Materials,Selection,Use",McGraw Hill,1996.

Duo, D., "Expressive Details: Materials, Selection, Use", McGraw Hill, 1996.

Elder, A.J., "AJ Handbook of Building Enclosure ", Architectural Press, London, 1974.

Griffin, C. W. and Fricklas, R., "Manual of Low-Slope Roof Systems", Third Edition. McGraw-Hill, 1996.

Teaching Staff: Öğr. Gör. Ömer DENİZ

YB 533 BUILDING ELEMENT DESIGN

3 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 and homework

Recommended Resources: Bachman, L. R., "Integrated Buildings: The Systems Basis of Architecture", John Wiley & Sons, 2002.

Bayazıt, N., "Endüstri Ürünlerinde ve Mimarlıkta Tasarlama Metodlarına Giriş", Literatür, 1994.

Berköz, S., "Yapımda Sistemler Yaklaşımı", İ.T.Ü. Mimarlık Fakültesi, Baskı Atölyesi, İstanbul 1975.

Blanc, A., "Internal Components", Longman Ltd., 1994.

Christian, S., "Glass Construction Manual", Birkhauser, 1999.

Duo, D., "Expressive Details: Materials, Selection, Use", McGraw Hill, 1996.

Griffin, C. W. and Fricklas, R., "Manual of Low-Slope Roof Systems", Third Edition. McGraw-Hill, 1996.

Teaching Staff: Öğr. Gör. Ömer DENİZ

HISTORY OF ARCHITECTURE PROGRAMME

Program Head: Assoc. Prof. Dr. Ayla ANTEL

Tel: 0212 252 1600 / 277

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.

TEACHING STAFF

FULL TIME

Assoc. Prof. Dr. Ayla Fatma Antel, Mimarlık Tarihi ve Teorisi Bilim Dalı Başkanı
Y. Mimar ; M.S.Ü. 1979, Doktora ; M.S.Ü. 1990, Yardımcı Doçent; M.S.Ü. 1992, Doçent; M.S.Ü. 1998

Assist. Prof. Dr. Elvan Erkmen,
Y. Mimar ; M.S.Ü. 1983, Doktora. M.S.Ü. 1998, Yardımcı Doçent; M.S.Ü. 1999

Assist. Prof. Dr. Gevher Acar,
Sanat Tarihçisi ; I. Ü.1988, Y. Lisans ; M.S.Ü. 1993, Doktora ; M.S.Ü. 2000 Yardımcı Doçent;
M.S.Ü. 2002

Assist. Prof. Dr. Ebru Özeke Tökmeci,
Mimar ; M.S.Ü. 1994, Y. Lisans ; MSÜ 1997, Doktora. MSÜ 2001., Yardımcı Doçent; M.S.Ü. 2003

HISTORY OF ARCHITECTURE COURSEPROGRAM

GRADUATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
Elective Courses		30	MT 500 Seminar	0	10
			Elective Courses		20
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis		30
Total		30	Total		30

DOCTORATE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
YB 691 Project	3	10	YB 691 Project	3	10
Elective Courses		20	Elective Courses		20
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)		30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)		30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report 3 (compulsory)		30	Thesis and thesis defend (compulsory)		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
MT 505 Rationalism in Modern Architecture	3	6	MT 502 Rationalist Tendencies in the 20 th Century	3	5
MT 509 Structural Development in Ancient Architecture	3	6	MT 504 Architecture in the Last Periods of the Ottoman Empire and Early Turkish Republic	3	5
MT 507 The Role Of Austria In Modern Architecture	2	6	MT 506 Turkish Architecture After 1923	3	5
MT 511 Architecture and Philosophy I	2	5	MT 508 Different Tendencies After Modern Architecture	3	5

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, homework

Recommended Resources: Bülent Özer, Kültür Sanat Mimarlık, YEM Yayını, 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, homework

Recommended Resources: ACAR, Gevher, Tanzimat Dönemi Fikir ve Düşünce Hayatının Mimari Alana Yansması. MSÜ. Sosyal Bilimler Enstitüsü Yayınlanmamış Doktora Tezi, İstanbul 2000.

AKIN, Nur, 19. Yüzyılın İkinci Yarısında Galata ve Pera, İstanbul 1998.

ÇELİK, Zeynep, 19. Yüzyılda Osmanlı Başkenti Değişen İstanbul (The Remarking of İstanbul Portrait of an Ottoman City in the Nineteenth Century, 1986, İng. 'den çev. Selim Deringil), İstanbul 1996.

KUBAN, Doğan, İstanbul Yazıları.

Teaching Staff: Assist. 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, homework

Recommended Resources: Bülent Özer, Kültür Sanat Mimarlık, YEM Yayını, İstanbul

Teaching Staff: Doç. Dr. Ayla ANTEL

MT 506 TURKISH ARCHITECTURE AFTER 1923

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, homework

Recommended Resources: ÜSTÜN, A. "Türkiye'deki mimarlık Düşüncesinin Cumhuriyet Devrimindeki Evrimi", Karadeniz teknik Üniversitesi yayını, Trabzon, 1976.

ASLANOĞLU, İ. "Erken Cumhuriyet Dönemi Mimarlığı", ODTÜ yayını, Ankara, 1980.

ÖZER, B. "Rejyonaliz, Üiversalizm ve Çağdaş Mimarimiz Üzerine Bir Deneme", İTÜ Mimarlık Fak. Yayını, İstanbul, 1954

ERKMEN, E., “Clemens Holzmeister ve Türk Mimarlığındaki Yeri”, MSÜ, Fen Bilimleri Enstitüsü, Yayınlanmamış doktora tezi.

Teaching Staff: Assist. Prof. Dr. Elvan ERKMEN

MT 507 MODERN MİMARİDE AVUSTURYA’NIN ROLÜ

3 saat/hafta, Teori, 3 kredi, 6 ECTS Kredisi

Amaç / İçerik: 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.

Ön Koşul : -

Değerlendirme Yöntemleri : yazılı sınav ve ödevler

Önerilen kaynak Listesi: Mimarlık Tarihi Anabilim Dalı ve Öğrencileri”,Viyana Gezisi Notları”,Yapı 196,İstanbul 1998

Achleitner F.,Dimitrou S., Gsteu J.G., Kurrent F., Schweighofer A., Tesar H., Wawrih G.,Zsolnay GES.m.b.H 1976

Varndoe K., Wien 1900, Kunst-Architektur und Design ,Taschen,Köln 1987

Dersi Veren: Assist. Prof. Dr. Elvan ERKMEN

MT 508 DIFFERENT TENDENCIES AFTER 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, homework

Recommended Resources: Bülent Özer, Kültür Sanat Mimarlık , YEM Yayını, İstanbul

Teaching Staff: Doç.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 buttresses 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, homework

Recommended Resources: Behçet Ünsal Mimari Tarihi Teknik Okulu Yayınları, İstanbul

Belkıs Mutlu, Mimarlık Tarihi Ders Notları, Mimarlık Vakfı Yayını, İstanbul

Teaching Staff: Doç.Dr.Ayla ANTEL

MT 511 ARCHITECTURE AND PHILOSOPHY I

3 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, homework

Recommended Resources: GELERTER, M. “Sources of Architectural Form”, Manchester University Press, 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: Yrd. Doç.Dr. Ebru Özeke TÖKMECİ

RESTORATION-CONSERVATION AND RENOVATION PROGRAM

Program Head : Prof. Dr. İlgi AŞKUN

Tel: 0212 252 1600 / 254

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

Y. Mimar ; D.G.S.A. 1972, Doktora. İ.D.G.S.A. 1980, Doçent; M.S.Ü. 1992, Profesör ; M.S.Ü. 2001.

Prof. Dr. Oğuz Ceylan

Y. Mimar ; D.G.S.A. 1977, Doktora. M.S.Ü. 1989, Doçent ; M.S.Ü. 1998, Profesör; M.S.Ü. 2004

Prof. Dr. Demet Ulusoy Binan,

Mimar ; İ.D.M.M.A. 1982, Y. Mimar ; Y.Ü. 1985, Doktora. Y.T.Ü. 1994, Yardımcı Doçent; M.S.Ü. 1998, Doçent ; M.S.Ü. 2001, Profesör; M.S.G:S:Ü. 2007

Yrd. Doç. Dr. Zeliha Hale Tokay,

Y. Mimar ; M.S.Ü. 1982, Doktora. M.S.Ü. 1994, Yardımcı Doçent; M.S.Ü. 1996

Yrd. Doç. Dr. Tülay Çobancaoğlu,

Mimar ; M.S.Ü. 1983, Y. Mimar ; M.S.Ü. 1988, Doktora ; M.S.Ü. 1999, Yardımcı Doçent; M.S.Ü. 2000

Yrd. Doç. Dr. Mevlüde Kaptı,

Y. Mimar ; M.S.Ü. 1988, Doktora. M.S.Ü. 1999, Yardımcı Doçent; M.S.Ü. 2001

Yrd. Doç. Dr. Binnur KIRAÇ

Mimar ; M.S.Ü. 1989, Y. Lisans ; M.S.Ü. 1992, Doktora. M.S.Ü. 2001, Yardımcı Doçent; M.S.Ü. 2003

RESTORATION-CONSERVATION AND RENOVATION PROGRAM

GRADUATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
RY 500 Seminar	0	2	RY 502 Conservation in Traditional Timber Architecture	2	4
RY 501 Conservation in Tarditional Stone and Brick	2	4	RY 512 Methods of Intervation	2	3

Architecture					
RY 503 Conservation of Traditional Turkish House	2	3	RY 514 Contemporary Conservation Approaches for the Late Period of Ottoman Architecture	2	2
RY 591 Project	2	10	RY 592 Project	2	10
Elective Courses		11	Elective Courses		11
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis (compulsory)		30
Total		30	Total		30

DOCTORATE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
Elective Courses		30	Elective Courses		30
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)		30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)		30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report 3 (compulsory)		30	Thesis and thesis defend (compulsory)		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
RÇ 505 Evaluation and Conservation of Sites	2	4	RÇ 504 New Functions for Traditional Building Types	2	4
RY 507 Monumental Building Types in Traditional Turkish Architecture and Their Adaptation to Contemporary Life	2	4	RÇ 506 New Design in Historic Urban Sites	2	4
RY 515 Preservation and Regeneration of Industrial Heritage	2	4	RY 509 Vernacular Architecture and Conservation	2	4
			RÇ 508 Theory of Conservation and Legislative Regulations	2	3

COURSE CONTENTS

REQUIRED COURSESS

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.

Ön Koşul:-

Assessment methods:-

Recommended Resources:

Teaching Staff: Prof. Dr. İlgi AŞKUN, Prof. Dr. Oğuz CEYLAN, Prof. Dr. Demet BİNAN, Assist. Prof. Dr. Hale TOKAY, Assist. Prof. Dr. Tülay ÇOBANCAOĞLU, Assist. 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/homework

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

ERİÇ, M., (1986) Eski Eserlerinizde Malzeme Sorunları. TAÇ Dergisi, C:1, sayı:4.

CROCI, G., (2000), The Conservation and Structural Restoration of Architectural Heritage, Southampton UK, Boston: Computational Mechanics Publications.

FEILDEN, B. M., (1997), Conservation of Historic Buildings, Oxford: Butterworth-Heinemann.

BECKMANN, P, BOWLES R. (2004), Structural Aspects of Building Conservation, Oxford: Elsevier

Teaching Staff: Assist. 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/homework

Recommended Resources: ELDEM, S. H. "Yapı", İDGSA yayını

GÜNAY, R., "Geleneksel Ahşap Yapılar, Sorunları ve Çözüm Yolları". Birsen yayınevi, 2002.

ÖKTEN, S., Duman, N., "Ahşap Yapı Dersleri I". YEM yayınevi.

ERİÇ, M., "Dünün ve Bugünün Ahşap ve Ahşaptan Üretilmiş Malzeme", İTÜ yayını.

BLASER, W. (1980). "Wood Houses Form in Rural Architecture". Wept&Co. Verlag Basel.

CIRIA (1986). Report 111 "Structural Renovation of Traditional Buildings". CIIA London.

Teaching Staff: Assist. Prof. Dr. Tülay ÇOBANCAOĞLU

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 legislative regulations. Conservation and restoration examples from Turkey and other countries.

Pre-requisite:-

Assessment methods: written exam/homework

Recommended Resources: ELDEM, S. E., "Türk Evi Plan Tipleri", İTÜ yayını

ELDEM, S.E., "Türk Evi", TAÇ Vakfı yayını, 3 cilt

ELDEM, S.E., "Boğaziçi Yalıları", KOÇ Vakfı yayını

SEZGİN, H., "Architecture Traditionnelle des Balkans Turquie"

SEZGİN, H., "Geleneksel Türk Sanatları", Mimarlık Kültür Bakanlığı yayını

AKIN, N., "Balkanlarda Osmanlı Dönemi Konutları"

KÜÇÜKERMEN, Ö., "Odala", TTOK yayını.

Teaching Staff: Assist. 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

Pre-reguisite:-

Assessment methods: written exam/homework

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 thought 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: homework

Recommended Resources: Akın, Nur, "19.Yüzyıl'ın İkinci Yarısında Galata-Pera", Çelik, Zeynep, 19.Yüzyıl'da Osmanlı Başkenti Değişen İstanbul, Tarih Vakfı Yurt Yayınları, İstanbul,1996.

Denel, Serim, Batılılaşma Sürecinde İstanbul'da Tasarım ve Dış Mekanlarda Değişim ve Nedenleri, Ankara, 1982.

Ergin, Osman Nuri, Mecelle-i Umûr-ı Belediye, İstanbul, 1995.

Feilden, Bernard M., Conservation of Historic Buildings, Butterworths Chatham, 1982.

Fitch, James Marston, Historic Preservation: Curatorial Management of the Built World, New York, 1982.

Structural Renovation of Traditional Buildings, CIRIA Repot 111, 1986

Teaching Staff: Assit Prof. Dr. Mevlüde KAPTI

RY 591 PROJECT

4 hrs/week, studio, 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: homework

Recommended Resources: SWALLOW, P., D. WATT, R. ASHTON, 2004, Measurement And Recording Of Historic Buildings, London: Donhead Publishing Ltd.

CROCI, G., 1998, The Conservation And Structural Restoration Of Architectural Heritage, Southampton: Computational Mechanics Publications.

FEILDEN, B. M., 1982, Conservation Of Historic Buildings: Technical Studies İn The Arts, Archaeology And Architecture, London: Butterworth Scientific.

ULUENGİN, F., ULUENGİN, B. VE ULUENGİN, M.B., 2001, Osmanlı Anıt Mimarisinde Klasik Yapı Detayları. Yem, İstanbul.

GÜNAY, R., 2002,. Geleneksel Ahşap Yapılar, Sorunları Ve Çözüm Yolları, Birsen Yainevi, İstanbul. Dersi Veren: Prof. Dr. İlgi AŞKUN, Prof. Dr. Oğuz CEYLAN, Prof. Dr. Demet BİNAN, Yrd. Doç. Dr. Hale TOKAY, Yrd. Doç. Dr. Tülay ÇOBANCAOĞLU, Yrd. Doç. Dr. Mevlüde KAPTI, Yrd. Doç. Dr. Binnur KIRAC

RY 592 PROJECT

4 hrs/week, studio, 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: homework

Recommended Resources: SWALLOW, P., D. WATT, R. ASHTON, 2004, Measurement And Recording Of Historic Buildings, London: Donhead Publishing Ltd.

CROCI, G., 1998, The Conservation And Structural Restoration Of Architectural Heritage, Southampton: Computational Mechanics Publications.

FEILDEN, B. M., 1982, Conservation Of Historic Buildings: Technical Studies İn The Arts, Archaeology And Architecture, London: Butterworth Scientific.

ULUENGİN, F., ULUENGİN, B. VE ULUENGİN, M.B., 2001, Osmanlı Anıt Mimarisinde Klasik Yapı Detayları. Yem, İstanbul.

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

Dersi Veren: Prof. Dr. İlgi AŞKUN, Prof. Dr. Oğuz CEYLAN, Prof. Dr. Demet BİNAN, Yrd. Doç. Dr. Hale TOKAY, Yrd. Doç. Dr. Tülay ÇOBANCAOĞLU, Yrd. Doç. Dr. Mevlüde KAPTI, Yrd. Doç. Dr. Binnur KIRAÇ

ELECTIVE COURSES

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 losing 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 accordance to restoration principles and technical and legislative information.

Pre-requisite:-

Assessment methods: written exam/homework

Recommended Resources: AHUNBAY, Z. "Tarihi çevre Koruma ve Restorasyon". YEM yayınları, İstanbul, 1996.

ALTINOLUK, Ü. "Yeniden Kullanımı". YEM yayınları, İstanbul, 1998.

KUBAN, D. "Tarihi Çevre Korumanın Mimarlık Boyutu". YEM yayınları, İstanbul, 2000.

AŞKUN, İ. "Mimari Anıtların Yeniden İşlevlendirilmesi", Basılmamış Profesörlük Çalışması, İstanbul, 2001.

YÜCE, İ. "Medrese yapıları ve Koruma İlkeleri Doğrultusunda Çağdaş Yaşam İçindeki İşlevleri". İDĞSA, Basılmamış doktora tezi, 1991.

Teaching Staff: Prof. Dr. İgi YÜCE AŞKUN

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/homework

Recommended Resources: FERSAN, N. A. (1980). "Küçük Anadolu Kentlerinde Tarihsel Dokunun Korunması İle İlgili Bir Yöntem Araştırması". İTÜ yayını, 1980

TANYELİ, U. (1987). "Anadolu Türk Kentinde Fiziksel Yapının Evrim Süreci". İTÜ, 1987.

BİNAN, D. "Güzelyurt Örneğinde, Kapadokya Bölgesi yığma Taş Konut Mimarisinin Korunması İçin Bir Yöntem Araştırması". YTÜ, 1994.

KUBAN, D. " Türkiye'de Kentsel Koruma". Tarih Vakfı, İstanbul, 2001.

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 accordance to needs. Discussion examples from Turkey and other countries.

Pre-requisite:-

Assessment methods: written exam/homework

Recommended Resources: AHUNBAY, Z., “Tarihi Çevre Koruma ve Restorasyon”. YEM Yayınları, İstanbul, 1996.

KUBAN, D., “Tarihi Çevre Korumanın Mimarlık Boyutu”. YEM Yayınları, İstanbul, 2000.

ONUR, H., “Korunması Gerekli Mimari Anıtlara Ek Yapı Tasarımında İlkeler”. MSÜ, Mimarlık Bölümü, Basılmamış doktora tezi, 1991.

ERDER, C., “Tarihi Çevre Bilinci”. ODTÜ Mimarlık Fakültesi Yayını, Ankara, 1975.

ÖZER, B. “Tarihi ve Geleneksel Mimariyle Yaşamak ve Yeniden İnşa Etmek”, Yapı Dergisi, Ocak/Şubat, 1979.

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 Seljuks, 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/homework

Recommended Resources: TOKAY, H. “Osmanlı Külliyelerinin temel Özellikleri ve Günümüz Ortamında Değerlendirilmeleri”. Doktora tezi, 1994.

SEZGİN, H. “Türk ve İslam Ülkeleri Mimarisine Toplu Bakış”. MSÜ yayını, 4, 1984.

ASLANAPA, O. “Türk Sanatı I-II”, Kervan Yay, İstanbul, 1984.

KURAN, A. “Mimar Sinan”. Hürriyet Vakfı Yayını. I. Baskı, İstanbul, 1986.

GOODWIN, G. “A History of Ottoman Architecture”, ISBN-08018 1202 x, London, 1971.

Teaching Staff: Assist. Prof. Dr. Hale TOKAY

RÇ 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, defination of values for the cultural asset, classification of the 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/homework

Recommended Resources: ERDER, C., “Tarihi Çevre Bilinci”, ODTÜ Mim. Fak. Yayını, No: 24, Ankara, 1975

ERDER, C., “Tarihi Çevre Kaygısı Tarihine Giriş”, ODTÜ Mim. Fak. Yayını, No:16, Ankara, 1971.

AKOZAN, F., “Türkiye’de Tarihi Anıtları Koruma Teşkilatı ve Kanunlar”, DGSA yayını, No: 47, İstanbul, 1977.

UMAR, B., “Eski Eserler Hukuku”, Ege Üniversitesi Hukuk Fak. Yayını, İzmir, 1961.

MADRAN, E., “Cumhuriyet’in İlk Otuz Yılında Koruma Alanının Örgütlenmesi”, ODTÜ, Mimarlık Fak. Yayını, (17:1-2), 1977.

Teaching Staff: Assist. Prof. Dr. Binnur KIRIÇ

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 atchitecture; 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/homework

Recommended Resources: Akın, G., *Doğu ve Güneydoğu Anadolu'daki Tarihsel Ev Tiplerinde Anlam*, İ.T.Ü. Mim. Fak. Yay., İstanbul, 1985.

Binan, D., *Güzelyurt Örneğinde , Kapadokya Bölgesi Yığma Taş Mimarisinin Korunması için Bir Yöntem Araştırması*, Y.T.Ü. Fen Bil. Ens. Yay., İstanbul, 1994.

Binan, D., "Yöresel Mimari- Habitat İlişkisinin Koruma Olgusundaki Yeri ve Önemi", 3. *Kentsel Koruma Yenileme ve Uygulamalar Kollokyumu, Toplumsal Gelişme Sürecinde Kentsel Korumanın İşlevi*, 13-14 Nisan 1995, M.S.Ü. Şehir ve Bölge Planlama Bölümü Kentsel Koruma ve Yenileme Disiplin Grubu, İstanbul, 1995.

Sezgin, H., Vernaküler Mimari ve Günümüz Koşullarındaki Durumu, *Mimarlık*, 84/3-4, S. 201, İstanbul, 1984, 44-47.

Sezgin, H., "Anadolu Türk Vernaküler Mimarisinin Yayılma ve Etki Alanları", *Akademi Mimarlık ve Sanat Dergisi*, C.10, İstanbul, 1981, 27-30.

Tanyeli, U., *Anadolu Türk Kentinde Fiziksel Yapının Evrim Süreci (11-15. yy)*, İ.T.Ü.Mim.Fak.Yay., İstanbul, 1987.

Vernacular Architecture, Monuments and Sites V, ICOMOS Yay., 2001.

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 archeology" 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/homework

Recommended Resources: Alfrey, J.; Putnam, T. (1992), *The Industrial Heritage Managing Resources and Uses*, Routledge , London and New York.

Kıraç, B.(2001)"Türkiye'deki Tarihi Sanayi Yapılarının Günümüz Koşullarına Göre Yeniden Değerlendirilmeleri

Konusunda Bir Yöntem Araştırması", Basılmamış Doktora tezi, M.S.Ü.

Marsh, Paul, *The Refurbishment of Commercial & Industrial Buildings*, Construction Press New York, 1983.

Munce James F., *Industrial Architecture: An Analysis of International Building Practice*, F.W. Dodge Corporation, New York, 1960.

Palmer, M., Neaverson, P. (1998), *Industrial Archaeology Principles and Practice*, Routledge , London and New York.

Stratton, M. (ed.)(2000), *Industrial Buildings: Conservation and Regeneration*, E&FN Spon , London.

Teaching Staff: Assist. Prof. Dr. Binnur KIRAÇ

RESTORATION-EVALUATION of HISTORIC URBAN SITES PROGRAM

Program Head : Prof. Dr. İlgi AŞKUN

Tel: 0212 252 1600 / 254

In Evaluation of Historic Enviroments 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 intervations on urban conservation examples from Turkey and the World.

TEACHING STAFF

FULL TIME

Prof. Dr. İlgi Yüce Aşkun

Y. Mimar ; D.G.S.A. 1972, Doktora. İ.D.G.S.A. 1980, Doçent; M.S.Ü. 1992, Profesör ; M.S.Ü. 2001.

Prof. Dr. Oğuz Ceylan

Y. Mimar ; D.G.S.A. 1977, Doktora. M.S.Ü. 1989, Doçent ; M.S.Ü. 1998, Profesör; M.S.Ü. 2004

Prof. Dr. Demet Ulusoy Binan,

Mimar ; İ.D.M.M.A. 1982, Y. Mimar ; Y.Ü. 1985, Doktora. Y.T.Ü. 1994, Yardımcı Doçent; M.S.Ü. 1998, Doçent ; M.S.Ü. 2001, Profesör; M.S.G:S:Ü. 2007

Yrd. Doç. Dr. Zeliha Hale Tokay,

Y. Mimar ; M.S.Ü. 1982, Doktora. M.S.Ü. 1994, Yardımcı Doçent; M.S.Ü. 1996

Yrd. Doç. Dr. Tülay Çobancaoğlu,

Mimar ; M.S.Ü. 1983, Y. Mimar ; M.S.Ü. 1988, Doktora ; M.S.Ü. 1999, Yardımcı Doçent; M.S.Ü. 2000

Yrd. Doç. Dr. Mevlüde Kaptı,

Y. Mimar ; M.S.Ü. 1988, Doktora. M.S.Ü. 1999, Yardımcı Doçent; M.S.Ü. 2001

Yrd. Doç. Dr. Binnur KIRAÇ

Mimar ; M.S.Ü. 1989, Y. Lisans ; M.S.Ü. 1992, Doktora. M.S.Ü. 2001, Yardımcı Doçent; M.S.Ü. 2003

RESTORATION-EVALUATION of HISTORIC URBAN SITES COURSE PROGRAM

GRADUATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
RC 500 Seminar	0	2	RC 504 New Functions for 2	2	4

RC 505 Evaluation and Conservation of Sites	2	4	Traditional Building Types		
RC 507 Monumental Building Types in Traditional Turkish Architecture and Their Adaptation to Contemporary Life	2	4	RC 506 New Design in Historic Urban Sites	2	4
RC 591 Project	4	10	RC 508 Theory of Conservation and Legislative Regulations	2	3
Elective Courses		10	RC 592 Project	2	10
			Elective Courses		9
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis (compulsory)		30
Total		30	Total		30

DOCTORATE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
Elective Courses		30	Elective Courses		30
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)		30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)		30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report 3 (compulsory)		30	Thesis and thesis defend (compulsory)		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
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RÇ 501 Conservation in Traditional Stone and Brick Architecture	2	4	RÇ 502 Conservation in Traditional Timber Architecture	2	4
RÇ 503 Conservation of Traditional Turkish House	2	3	RÇ 509 Vernacular Architecture and Conservation	2	4
RÇ 515 Preservation and Regeneration of Industrial Heritage	2	2	RÇ 512 Methods of Intervention	2	3
			RÇ 514 Contemporary Conservation Approaches for the Late Period of Ottoman Architecture	2	2

COURSE CONTENTS

REQUIRED COURSESS

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.

Ön Koşul:-

Assessment methods:

Recommended Resources:

Teaching Staff: Prof. Dr. İlgi AŞKUN, Prof. Dr. Oğuz CEYLAN, Prof. Dr. Demet BİNAN, Assist. Prof. Dr. Hale TOKAY, Assist. Prof. Dr. Tülay ÇOBANCAOĞLU, Assist. 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 losing 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 accordance to restoration principles and technical and legislative information.

Pre-requisite:-

Assessment methods: written exam/homework

Recommended Resources: AHUNBAY, Z. "Tarihi çevre Koruma ve Restorasyon". YEM yayınları, İstanbul, 1996.

ALTINOLUK, Ü. "Yeniden Kullanımı". YEM yayınları, İstanbul, 1998.

KUBAN, D. "Tarihi Çevre Korumanın Mimarlık Boyutu". YEM yayınları, İstanbul, 2000.

AŞKUN, İ. "Mimari Anıtların Yeniden İşlevlendirilmesi", Basılmamış Professorlük Çalışması, İstanbul, 2001.

YÜCE, İ. "Medrese yapıları ve Koruma İlkeleri Doğrultusunda Çağdaş Yaşam İçindeki İşlevleri". İDGSA, Basılmamış doktora tezi, 1991.

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/homework

Recommended Resources: FERSAN, N. A. (1980). “Küçük Anadolu Kentlerinde Tarihsel Dokunun Korunması İle İlgili Bir Yöntem Araştırması”. İTÜ yayını, 1980

TANYELİ, U. (1987). “Anadolu Türk Kentinde Fiziksel Yapının Evrim Süreci”. İTÜ, 1987.

BİNAN, D. “Güzelyurt Örneğinde, Kapadokya Bölgesi yığma Taş Konut Mimarisinin Korunması İçin Bir Yöntem Araştırması”. YTÜ, 1994.

KUBAN, D. “Türkiye’de Kentsel Koruma”. Tarih Vakfı, İstanbul, 2001.

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 accordance to needs. Discussion examples from Turkey and other countries.

Pre-requisite:-

Assessment methods: written exam/homework

Recommended Resources: AHUNBAY, Z., “Tarihi Çevre Koruma ve Restorasyon”. YEM Yayınları, İstanbul, 1996.

KUBAN, D., “Tarihi Çevre Korumanın Mimarlık Boyutu”. YEM Yayınları, İstanbul, 2000.

ONUR, H., “Korunması Gerekli Mimari Anıtlara Ek Yapı Tasarımında İlkeler”. MSÜ, Mimarlık Bölümü, Basılmamış doktora tezi, 1991.

ERDER, C., “Tarihi Çevre Bilinci”. ODTÜ Mimarlık Fakültesi Yayını, Ankara, 1975.

ÖZER, B. “Tarihi ve Geleneksel Mimariyle Yaşamak ve Yeniden İnşa Etmek”, Yapı Dergisi, Ocak/Şubat, 1979.

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 Seljuks, 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/homework

Recommended Resources: TOKAY, H. “Osmanlı Külliyelerinin temel Özellikleri ve Günümüz Ortamında Değerlendirilmeleri”. Doktora tezi, 1994.

SEZGİN, H. “Türk ve İslam Ülkeleri Mimarisine Toplu Bakış”. MSÜ yayını, 4, 1984.

ASLANAPA, O. “Türk Sanatı I-II”, Kervan Yay, İstanbul, 1984.

KURAN, A. “Mimar Sinan”. Hürriyet Vakfı Yayını. I. Baskı, İstanbul, 1986.

GOODWIN, G. “A History of Ottoman Architecture”, ISBN-08018 1202 x, London, 1971.

Teaching Staff: Assist. Prof. Dr. Hale TOKAY

RÇ 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/homework

Recommended Resources: ERDER, C., “Tarihi Çevre Bilinci”, ODTÜ Mim. Fak. Yayını, No: 24, Ankara, 1975

ERDER, C., “Tarihi Çevre Kaygısı Tarihine Giriş”, ODTÜ Mim. Fak. Yayını, No:16, Ankara, 1971.

AKOZAN, F., “Türkiye’de Tarihi Anıtları Koruma Teşkilatı ve Kanunlar”, DGSA yayını, No: 47, İstanbul, 1977.

UMAR, B., “Eski Eserler Hukuku”, Ege Üniversitesi Hukuk Fak. Yayını, İzmir, 1961.

MADRAN, E., “Cumhuriyet’in İlk Otuz Yılında Koruma Alanının Örgütlenmesi”, ODTÜ, Mimarlık Fak. Yayını, (17:1-2), 1977.

Teaching Staff: Assist. Prof. Dr. Binnur KIRIÇ

RÇ 591 PROJECT

4 hrs/week, studio, 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: homework

Recommended Resources: SWALLOW, P., D. WATT, R. ASHTON, 2004, Measurement And Recording Of Historic Buildings, London: Donhead Publishing Ltd.

CROCI, G., 1998, The Conservation And Structural Restoration Of Architectural Heritage, Southampton: Computational Mechanics Publications.

FEILDEN, B. M., 1982, Conservation Of Historic Buildings: Technical Studies In The Arts, Archaeology And Architecture, London: Butterworth Scientific.

ULUENGİN, F., ULUENGİN, B. VE ULUENGİN, M.B., 2001, Osmanlı Anıt Mimarisinde Klasik Yapı Detayları. Yem, İstanbul.

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

Teaching Staff: Prof. Dr. İlgi AŞKUN, Prof. Dr. Oğuz CEYLAN, Prof. Dr. Demet BİNAN, Assist. Prof. Dr. Hale TOKAY, Assist. Prof. Dr. Tülay ÇOBANCAOĞLU, Assist. Prof. Dr. Mevlüde KAPTI, Asist. Prof. Dr. Binnur KIRIÇ

RÇ 592 PROJECT

4 hrs/week, studio, 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: homework

Recommended Resources: SWALLOW, P., D. WATT, R. ASHTON, 2004, Measurement And Recording Of Historic Buildings, London: Donhead Publishing Ltd.

CROCI, G., 1998, The Conservation And Structural Restoration Of Architectural Heritage, Southampton: Computational Mechanics Publications.

FEILDEN, B. M., 1982, Conservation Of Historic Buildings: Technical Studies In The Arts, Archaeology And Architecture, London: Butterworth Scientific.

ULUENGİN, F., ULUENGİN, B. VE ULUENGİN, M.B., 2001, Osmanlı Anıt Mimarisinde Klasik Yapı Detayları. Yem, İstanbul.

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

Teaching Staff: Prof. Dr. İlgi AŞKUN, Prof. Dr. Oğuz CEYLAN, Prof. Dr. Demet BİNAN, Assist. Prof. Dr. Hale TOKAY, Assist. Prof. Dr. Tülay ÇOBANCAOĞLU, Assist. Prof. Dr. Mevlüde KAPTI, Asist. Prof. Dr. Binnur KIRIÇ

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/homework

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

ERİÇ, M., (1986) Eski Eserlerinizde Malzeme Sorunları. TAÇ Dergisi, C:1, sayı:4.

CROCI, G., (2000), The Conservation and Structural Restoration of Architectural Heritage, Southampton UK, Boston: Computational Mechanics Publications.

FEILDEN, B. M., (1997), Conservation of Historic Buildings, Oxford: Butterworth-Heinemann.

BECKMANN, P, BOWLES R. (2004), Structural Aspects of Building Conservation, Oxford: Elsevier

Teaching Staff: Assist. 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 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, restitution and reconstruction.

Pre-requisite:-

Assessment methods: written exam/homework

Recommended Resources: ELDEM, S. H. "Yapı", İDGSA yayını

GÜNAY, R., "Geleneksel Ahşap Yapılar, Sorunları ve Çözüm Yolları". Birsen yayınevi, 2002.

ÖKTEN, S., Duman, N., "Ahşap Yapı Dersleri I". YEM yayınevi.

ERİÇ, M., "Dünün ve Bugünün Ahşap ve Ahşaptan Üretilmiş Malzeme", İTÜ yayını.

BLASER, W. (1980). "Wood Houses Form in Rural Architecture". Wept&Co. Verlag Basel.

CIRIA (1986). Report 111 "Structural Renovation of Traditional Buildings". CIIA London.

Teaching Staff: Assist. Prof. Dr. Tülay ÇOBANCAOĞLU

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 legislative regulations. Conservation and restoration examples from Turkey and other countries.

Pre-requisite:-

Assessment methods: written exam/homework

Recommended Resources: ELDEM, S. E., "Türk Evi Plan Tipleri", İTÜ yayını

ELDEM, S.E., "Türk Evi", TAÇ Vakfı yayını, 3 cilt

ELDEM, S.E., "Boğaziçi Yalıları", KOÇ Vakfı yayını

SEZGİN, H., "Architecture Traditionnelle des Balkans Turquie"

SEZGİN, H., "Geleneksel Türk Sanatları", Mimarlık Kültür Bakanlığı yayını

AKIN, N., "Balkanlarda Osmanlı Dönemi Konutları"

KÜÇÜKERMEN, Ö., "Odala", T TOK yayını.

Teaching Staff: Assist. 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 intervention and reconstruction concerning its authenticity is studied

Pre-requisite:-

Assessment methods: written exam/homework

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: homework

Recommended Resources: Akın, Nur, “19.Yüzyıl’ın İkinci Yarısında Galata-Pera”, Çelik, Zeynep, 19.Yüzyıl’da Osmanlı Başkenti Değişen İstanbul, Tarih Vakfı Yurt Yayınları, İstanbul,1996.

Denel, Serim, Batılılaşma Sürecinde İstanbul’da Tasarım ve Dış Mekanlarda Değişim ve Nedenleri, Ankara, 1982.

Ergin, Osman Nuri, Mecelle-i Umûr-ı Belediye, İstanbul, 1995.

Feilden, Bernard M., Conservation of Historic Buildings, Butterworths Chatham, 1982.

Fitch, James Marston, Historic Preservation: Curatorial Management of the Built World, New York, 1982.

Structural Renovation of Traditional Buildings, CIRIA Repot 111, 1986

Teaching Staff: Assit Prof. Dr. Mevlüde KAPTI

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 atchitecture; 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/homework

Recommended Resources: Akın, G.,*Doğu ve Güneydoğu Anadolu’daki Tarihsel Ev Tiplerinde Anlam*, İ.T.Ü. Mim. Fak.Yay., İstanbul, 1985.

Binan, D., *Güzelyurt Örneğinde , Kapadokya Bölgesi Yığma Taş Mimarisinin Korunması için Bir Yöntem Araştırması*, Y.T.Ü. Fen Bil. Ens. Yay.,İstanbul, 1994.

Binan,D.,“Yöresel Mimari- Habitat İlişkisinin Koruma Olgusundaki Yeri ve Önemi”, *3. Kentsel Koruma Yenileme ve Uygulamalar Kollokyumu, Toplumsal Gelişme Sürecinde Kentsel Korumanın İşlevi*,13-14 Nisan 1995, M.S.Ü. Şehir ve Bölge Planlama Bölümü Kentsel Koruma ve Yenileme Disiplin Grubu, İstanbul,1995.

Sezgin, H., Vernaküler Mimari ve Günümüz Koşullarındaki Durumu, Mimarlık, 84/3-4, S. 201, İstanbul,1984, 44-47.

Sezgin, H., “Anadolu Türk Vernaküler Mimarisinin Yayılma ve Etki Alanları”, Akademi Mimarlık ve Sanat Dergisi, C.10, İstanbul, 1981, 27-30.

Tanyeli, U., *Anadolu Türk Kentinde Fiziksel Yapının Evrim Süreci (11-15. yy)*, İ.T.Ü.Mim.Fak.Yay., İstanbul, 1987.

Vernacular Architecture, Monuments and Sites V, ICOMOS Yay., 2001.

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 archeology” 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/homework

Recommended Resources: Alfrey, J.; Putnam, T. (1992), *The Industrial Heritage Managing Resources and Uses*, Routledge , London and New York.

Kıraç, B.(2001)“Türkiye’deki Tarihi Sanayi Yapılarının Günümüz Koşullarına Göre Yeniden Değerlendirilmeleri

Konusunda Bir Yöntem Araştırması”, Basılmamış Doktora tezi, M.S.Ü.

Marsh, Paul, *The Refurbishment of Commercial & Industrial Buildings*, Construction Press New York, 1983.

Munce James F., *Industrial Architecture: An Analysis of International Building Practice*, F.W. Dodge Corporation, New York, 1960.

Palmer, M., Neaverson, P. (1998), *Industrial Archaeology Principles and Practice*, Routledge , London and New York.

Stratton, M. (ed.)(2000), *Industrial Buildings: Conservation and Regeneration*, E&FN Spon , London.

Teaching Staff: Assist. Prof. Dr. Binnur KIRAÇ

ARCHITECTURAL DESIGN ISSUES PROGRAM

Program Head : Prof. Dr. Nesrin DENGİZ

Tel: 0212 252 1600 / 295

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 Dengiz,
Y. Mimar; D. G. S. A. 1973, Doktora; D.G.S.A. 1979. Doçent ;1986, Profesör ; 2000

Doç. Dr. Deniz Onat İncedayı,
Y. Mimar; M. S. Ü. 1986, Doktora, M.S.Ü. 1995. Yardımcı Doçent; 1995, Doçent; 2004

Assist. Prof. Dr. Recai Ersin Aynan,
Y. Mimar D.G.S.A. 1979 ; Doktora. M.S. Ü. 1992. Yardımcı Doçent;1997

Assist. Prof. Dr. F. Emel Ardaman,
Y. Mimar; MSÜ 1985, Kentsel Tasarım Uzmanlık Diploması ;Oxford Brooks University, Doktora.
M.S.Ü. 1996. Yardımcı Doçent; 2000.

Assist. Prof. Dr. Ahmet Tercan,
Mimar ; M.S.Ü. 1988, Y. Lisans ; M.S.Ü. 1991, Doktora. M.S.Ü. 2001. Yardımcı Doçent;2001

Assist. Prof. Dr. Derin ÖNCEL
Mimar; M.S.Ü. 1989, Y. Mimar; M.S.Ü. 1992, Doktora; Université Paris-8, 2002, Yrd. Doç. ; 2004

Assist. Prof. Dr. Selda KARAOSMANOĞLU
Mimar; M.S.Ü. 1990, Y. Mimar; M.S.Ü. 1997, Doktora; MSGSÜ; 2004.

PART TIME

Prof. Orhan ŞAHİNLER
Y.Mimar; İ.D.G.S.A. 1952, Doçent; İ.D.G.S.A.1969, Profesör; İ.D.G.S.A. 1971

Prof. Ali MUSLUBAŞ
Y. Mimar; D.G.S.A. 1966; Yeterlik ; D.G.S.A. 1979. Doçent; 1991, Profesör; 2000

ARCHITECTURAL DESIGN ISSUES PROGRAM

GRADUATE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
TS 500 Seminar	0	5	Elective Courses		30
TS 591 Project	3	10			
Elective Courses		15			
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis (compulsory)		30

Total	30	Total	30
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DOCTORATE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
Elective Courses		30	Elective Courses		30
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)		30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)		30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report 3 (compulsory)		30	Thesis and thesis defend (compulsory)		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
TS 503 Standardization and Prefabrication in the Architectural Design Process	2	5	TS 501 Plasticity in Form	2	5
TS 507 Architectural Applications in Historical Urban Fabric	2	5	TS 504 Dimensional Coordination in the Architectural Design Process	2	5
TS 509 Three Dimensional Modelling, Materializing and Animation in Computer Aided Design	2	5	TS 508 Socio-Cultural Data and Participatory Models in the Architectural Design Process	2	5
TS 511 The Concept of Authority in the Architectural Design Process	2	5	TS 510 Mimarlık Pratiğinde İletişimsel Süreçler	2	5
TS 513 Energy Efficient Design In Architecture	2	5	TS 512 Multidisciplinary	2	5
TS 517 Design with Nature;	2	5			

Green Design		Approach to the Process of Architectural Design and Environmental Problems		
TS 518 Spatial Design Concept In Various Scales	2 5	TS 514 The Usage of Technology in Architecture and Energy Efficient Design	2 5	5
		TS 517 Design with Nature; Green Design	2 5	5
		TS 592 Project	3	10

COURSE CONTENTS

REQUIRED COURSESS

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: homework

Recommended Resources: Her yarıyıl başında, proje ve araştırma konularıyla ilişkili kaynak ve okuma listesi öğrenciye verilir.

Teaching Staff: Prof. Dr. Nesrin DENGİZ, Assist. Prof. Dr. Ahmet TERCAN, Assist. Prof. Dr. Derin ÖNCEL

TS 591 PROJECT

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

Objective / Contents: The ultimate goal of the project studio 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: Her yarıyıl başında, proje ve araştırma konularıyla ilişkili kaynak ve okuma listesi öğrenciye verilir

Teaching Staff: Prof. Dr. Nesrin DENGİZ, Assist. 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 / homework

Recommended Resources: 75 Yılda Değişen Mimarlık, Tarih vakfı yayını, İstanbul, 1998.

ABEL, C., “Architecture and Identity”, Butterworth, Heinemann

“Domus”, Japan Architect, 1997.

TUNALI, İ. “Estetik”, Remzi kitabevi, İstanbul, 1996.

KUBAN, D. “Mimarlık Kavramları”, Yem yayınları, İstanbul, 1990.

Teaching Staff: Prof. Orhan ŞAHİNLER

TS 503 STANDARDIZATION AND PREFABRICATION IN THE ARCHITECTURAL DESIGN PROCESS

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

Objective / Contents: The concepts and methodology regarding standardization and prefabrication are analyzed with the problems which occur in accordance with the due facts of architectural design process; in order that innovative solutions shall be sought.

Pre-requisite: -

Assessment methods: written exam / homework

Recommended Resources: MARTİN, B. "Standards and Building", RIBA Publications Limited, 1971.

NAGARAJAN, R. "Standards in Building", London, Pitman, 1976.

DENGİZ, N. "Yapımda Standartlaşma", Prefabrik Birliği yayınları, Ankara, 1986.

Mimarlıkta Kalite, Yapı ve Yaşam 98, Kongre Kitabı, TMMOB Mimarlar Odası Bursa Şubesi, Bursa.

II. Kalite Sempozyumu, Bildiriler Kitabı. TMMOB Makjine Mühendisleri Odası, Bursa, 2001.

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 / homework

Recommended Resources: NISSEN, H. "Industrialized Building and Modular Design". Cement and Concrete Association, London, 1972.

"Dimensionnements" "Ecole nationale Superieure des Beaux-Arts", centre d'Etudes et de Recherches Architecturales, Paris, 1979.

ACC, "Conventions de Coordination Dimensionnelle, Conventions Generales. Document I". Editions du Moniteur, Paris, 1980.

PIERRE VON MEISS, "Elements of Architecture", Chapman & Hall, London, 1997.

FRANCIS, D. Ching, K. "Mimarlık-Biçim, Mekan ve Düzen". Yem yayınları, İstanbul, 2002.

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 effect 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 / homework

Recommended Resources: AYSU, E. "Eski Kent Mekanlarını Düzenleme İlkeleri", İstanbul, 1977.

MUSLUBAŞ, A. "Sultanahmet Tarihi Alanı Araştırma Çevre Düzenlemesi Öncesi", 1978.

MUSLUBAŞ, A. Büyük Britanya'da (İngiltere-İskoçya) 14 tarihi kentin eski dokusunda inşa edilmiş yeni mimari örnekleri inceleme ve doçentlik tezi çalışmaları, 1979.

ŞAHİNLER, O. "Merkezi (orta) İtalya'da Ortaçağ Şehirlerinin Meydanlarına ve Çevre Mahallelerine Ait Etüt", 1964.

EDWARDS, B. "London Docklands", 1992.

Teaching Staff: Prof. Ali MUSLUBAŞ

TS 508 SOCIO CULTURAL DATA 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 data, 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 / homework

Recommended Resources: HATCH, R. "The Scope of Social Architecture", van Nostrand Reinhold Comp., USA, 1984.

BOSMA, K. Haagstraten, V.D. "Housing for the Millions", Nail Publishers, Rotterdam, 2000.

Resource Architecture, Main Congress Report and Outlook, Birkhauser, Berlin, 2002.

İNCEDAYI, D. "Mimari Tasarım Sürecine Katılımcı Yaklaşım", MSÜ

GÜVENÇ, B. "Kültürün a, b, c'si", YKY, İstanbul, 1998.

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 / homework

Recommended Resources: ŞAHİNLER, O. "Mimarlıkta Teknik Resim". YEM yayınları, 2002.

KIZIL, F. "Objelerin 2-3 Boyutlu Grafik Anlatımı ve Zihinde Canlandırma", MSÜ yayınları, No:25, 2000.

Teaching Staff: Assist. 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 and homework

Recommended Resources: LAZAR, S. "İletişim Bilimi", Vadi yayınları, 2001.

RİFAT, M. "20.yy Dilbilim ve Göstergibilim Kuramları", Yapı Kredi yayınları, 1998.

DENKEL, A. "Anlam ve Nedensellik", Kabalcı Yayınevi, 1996.

ERHAN, İ. "Endüstri Tasarımında Kullanıcı-Araç İlişkisi Açısından Görsel Bildirişim", İDGSA yayını, 1978.

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

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 and homework

Recommended Resources: BUMİN, K. "Demokrasi Arayışında Kent", Ayrıntı, İstanbul, 1990.

FOUCAULT, M., "Hapishanenin Doğuşu", çev. M. Ali Kılıçbey, İmge, 2. basım, İstanbul, 2000.

MARDİN, Ş. "İdeoloji", 2. basım, İletişim, İstanbul, 1993.

SENNETT, R. "Otorite", Ayrıntı, İstanbul, 1992.

SENNETT, R. "Gözün Vicdanı", çev. Süha Eroğlu, Can Kurultay, İstanbul, 1999.

Teaching Staff: Assist. Prof. Dr. Emel F. ARDAMAN

TS 512 MULTI DISCIPLINARY APPROACH TO THE PROCESS OF ARCHITECTURAL DESIGN 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 and homework

Recommended Resources: İNCEDAYI, D. (ed) “Çevre Tümdür”, Bağlam yayınları, 2002.

HATCH, R. “The Scope of Social Architecture”, van Nostrand Reinhold Comp., USA, 1984.

COLES, A., Defert, A. “The Anxiety of Interdisciplinary”, Backless, Books, UK, 1998.

PEARSON, M. Richards, C. , “Architecture & Order, Approaches to Social Space”, Routledge, London.

HABRAKEN, J. “The Structure of The Ordinary”. Teicher, J (ed), USA, 1998.

Teaching Staff: Assoc. Prof. Dr.. Deniz İNCEDAYI

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 / homework

Recommended Resources: BERKES, F., Kışlaoğlu, M. “Çevre ve Ekoloji”, Remzi Kitapevi, İstanbul, 1995.

BERKES, F., Kışlaoğlu, M. “Ekoloji ve Çevre Bilimleri”, Remzi Kitapevi, İstanbul, 1994.

ABEL, C. “Architecture & Identity Towards a Global Eco-Culture”, Architectural Press, Oxford, 1997.

BENEVOLO, L. , “Modern Mimarlığın Tarihi ve Sanayi Devrimi”, çev. Attila Tokatlı.

Teaching Staff: Assist. 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 / homework

Recommended Resources: BEHLING, S. and Sophia “Sol Power The Evolution of Solar Architecture”, Prestel, Munich, 1996.

WACHBERGER, H. & Micheal (1998), “Güneş ile İnşa Etmek, Pasif Güneş Enerjisi Kullanımı”, Çev. Lale Geçek, Yaprak Kitapevi, Ankara, 1998.

HERZOG, T. , “Solar Energy in Architecture and Urban Planning”.

BOOKCHIN, M. (1996). “Ekolojik Bir Topluma Doğru”, Çev. Abdullah Yılmaz, Ayrıntı yayınları, 1996.

Teaching Staff: Assist. Prof. Dr. Ahmet TERCAN

TS 517 DESIGN WITH NATURE; GREEN DESIGN

2 hrs/week, theory, 2credits, 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, Bre; Bream, GBC is also introduced.

Pre-requisite: -

Assessment methods:

Recommended Resources:

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

TS 518 SPATIAL DESIGN CONCEPT IN VARIOUS SCALES

2 hrs/week, theory, 2credits, 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: GIEDION Siegfried, “Espace, Temps, Architecture”, Edition Denoel, 1990.

LYNCH Kevin, “L’Image de la Cité”Dunod, 1976.

CHING Francis D. K. , GINBELLI Corky, “ Interior Design illustrated” Willey Academy, 2005.

SPARKE Penny “100 ans de design” , Octopus France 2003.

Teaching Staff: Assist. 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: Her yarıyıl başında, proje ve araştırma konularıyla ilişkili kaynak ve okuma listesi öğrenciye verilir.

Teaching Staff: Prof. Dr. Nesrin DENGİZ, Prof. Dr. Fehmi KIZIL, Assoc. Prof. Dr.. Deniz İNCEDAYI, Assist. Prof. Dr. Emel F. ARDAMAN, Assist. Prof. Dr. Recai E. AYNAN, Assist. Prof. Dr. Ahmet TERCAN

CONSTRUCTION PHYSICS AND MATERIALS PROGRAM

Program head: Prof. Dr. Kemal ÇORAPÇIOĞLU

Tel: 0212 252 1600 / 326

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,

Mimar ; DGSA 1976, Y. Mimar ; DGSA 1979, Doktora ; MSÜ 1983.,Yardımcı Doçent; 1989, Doçent; 1997, Profesör; 2002

Assist. Prof. Dr. Cüneyt DİRİ

PART TIME

Prof. Dr. Murat Eriç, Yapı Fiziği Ve Malzemesi Bilim Dalı Başkanı
Y. Mimar ; DGSA 1967, Doktora ; İTÜ 1972., Profesör; 1985

Prof. Dr. Halit Yaşa Ersoy,
Y. Mimar ; DGSA 1979, Doktora ; İTÜ 1985. Profesör; 1996

Assoc. Prof. Dr. Ahmet GÜLEÇ

Yrd. Doç Dr. Hale GEZER

Assist. Prof. Dr. Genco BERKİN

Assist. Prof. Dr. Ali ÇİÇEK

Öğr. Gör. Dr. Ünver Anıl,
Mimar; DGSA 1970.

CONSTRUCTION PHYSICS AND MATERIALS COURSE PROGRAM

GRADUATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
YF 500 Seminar	0	4	YB 592 Project	3	10
YF 591 Project	3	10	Elective Courses		20
Elective Courses		16			
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis		30
Total		30	Total		30

DOCTORATE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
Elective Courses		30	Elective Courses		30

Total	30	Total	30
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3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)		30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)		30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report 3 (compulsory)		30	Thesis and thesis defend (compulsory)		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
YF 501 Environmental Effects in Terms of Building Physics	2	3	YF 502 Building Biology	2	3
YF 503 Thermal Problems and Thermal Protection in the Building Envelope	2	3	YF 504 Properties and Protection Techniques of Material Surfaces	2	3
YF 505 Acoustics in Buildings	2	3	YF 506 Special Concrete and its Technology	2	3
YF 509 Fire in Terms of Building Physics	2	3	YF 508 Humidity and Water Problems in Terms of Building Physics	2	3
YF 511 Corrosion in Buildings	2	3	YF 512 Experimentation and Measurement Techniques	2	3
YF 513 Analyses of Historic Mortars and Plasters	2	3	YF 514 Wood Conservation	2	3
YF 520 Metals and Shaping Processes	2	3	YF 525 Ecological Materials	2	3
YF 521 Assessment Methods of Material Data	2	3	YF 526 Measurement Techniques on Performance of The Building Envelope	2	3
YF 522 Wood in Architecture	2	3	YF 527 Surface of Coating	2	3
YF 523 Fibers, Reinforcements and Textiles	2	3	YF 528 Natural Stones in Buildings and Their Conservation	2	3
YF 524 Use of Glass in Architecture	2	3	YF 529 Plastic Building Materials	2	3
YF 526 Measurement Techniques on Performance of The Building Envelope	2	3	YF 531 Binding Materials	2	3

COURSE CONTENTS

REQUIRED COURSESS

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 topicsof the program with participation of experts in construction physics and that of students.

Pre-requisite :-

Assessment methods : written exam/homework

Recommended Resources: ERİÇ, M., ‘ Geleneksel Türk Mimarisinde malzeme seçim ve kullanımı ‘ Yapı Dergisi, 33, (1979), s.42-45

ERİÇ, M., ‘ Yapılarda mimari planlama ve yapı elemanlarıaçısından yangın sorunları ‘, Yapı Dergisi, 79, (1988),41-43

ERİÇ, M., ERSOY, H. Y. ‘Yapı biyolojisi, ekolojik denge ve yapı malzemesi ilişkisi ‘, Yapı Dergisi, 163, (1995), s.83-86

ERİÇ, M., ‘ Mimariye yansıyan toplumsal kimlik ve malzeme kullanımı ‘, Yapı Malzemesi- Teknoloji , 1 (TMMOB) yayını , 1998), s.39-41

ERİÇ, M.,” Eski Eserlerin korunmasında önemli bir malzeme sorunu –Suda çözünür tuzlar-, Yapı Dergisi,246, 2002, s.101-103.

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 constructionall physics criteria.

Pre-requisite :-

Assessment methods : written exam/homework

Recommended Resources:

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

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 constructionall physics criteria.

Pre-requisite :-

Assessment methods : written exam/homework

Recommended Resources:

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

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/homework

Recommended Resources: ERİÇ, M. ‘Dış duvarlarda yapı fiziği sorunları ’, Şantiye dergisi, 7, (1988), s.36-38

ERİÇ, M., GÜRDAL, E., TOYDEMİR, N., ERSOY, H. Y. ‘Yapı fiziği açısından cephe kaplamaları sorunları ve çözüm yolları I ’, Dizayn Konstrüksiyon Dergisi, 47, (1989), s.37-42

ERİÇ, M., GÜRDAL, E., TOYDEMİR, N., ERSOY, H. Y. ‘Yapı fiziği açısından cephe kaplamaları sorunları ve çözüm yolları II ’, Dizayn Konstrüksiyon Dergisi, 48, (1989), s.18-22

ERİÇ, M., ERSOY, H. Y. ‘Yapı biyolojisi, ekolojik denge ve yapı malzemesi ilişkisi ’, Yapı Dergisi, 163, (1995), s.83-86

ERİÇ, M., ‘Mimariye yansıyan toplumsal kimlik ve malzeme kullanımı ’, Yapı Malzemesi- Teknoloji , 1 (TMMOB) yayını , 1998), s.39-41

Teaching Staff: Prof.Dr.Murat ERİÇ

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/homework

Recommended Resources: ERİÇ, M.,”Yapı Malzemeleri Seçimi ve Konut Sağlığı”, Yeni Kent Gazete, 10. 1988.

ERİÇ, M., ERSOY, H. Y.,” Yapı Biyolojisi, Ekolojik Denge ve Yapı Malzemesi İlişkisi”, Yapı Dergisi,163,1995,s.83-86

ERİÇ M.,” Yapı Fiziği ve Malzemesi”, Literatür Yayınları,376s.

ERSOY, H. Y.,” Yapı Biyolojisi, İnsan, Yapı ve Çevre” ,Yapı Dergisi,146,1994.

ŞENYİĞİT, A.,” Son Altı Yılda Teşhis Edilen Malign Mezotelyomalı Vakalarımızın Değerlendirilmesi”, Yayınlanmış Uzmanlık Tezi, Diyarbakır Üniversitesi Göğüs Hastalıkları Tbc. ABD,1996. 75s.

Teaching Staff: Prof. Dr.Murat ERİÇ

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/homework

Recommended Resources: TS 825.

ERİÇ Murat, Yapı Fiziği ve Malzemesi, Literatür Yayınları, İstanbul.

Teaching Staff: Assist prof. Dr. Cüneyt DİRİ

YF 504 PROPERTIES AND PROTECTION TECHNIQUES OF MATERIAL SURFACES

2 Hours/Week, Theory, 2 Credits, 3 ECTS credits

Objective / Contents: Definition and significance of the subject; Inner structure of the material; Relationships between inner structure of the material and the surface; Failures in the inner structure of the material; Relationship between material surface and the outer medium (physical, chemical); Relationship between material surface and the outer medium (biological, external factors); Material surface processes and protection techniques; Surface cleaning and processing; Surface consolidation; Making the surface hydrophobe; Coating of the surface; Increasing the hardness of the surface; Electric surface applications; Chemical processes on the surface.

Pre-requisite :-

Assessment methods : written exam/homework

Recommended Resources: Çorapçioğlu, K. (2002), “Malzeme Yüzey Özellikleri ve Koruma Teknikleri”, Yayınlanmamış ders notları

Surface Coatings For Protection Against Wear, Edited by B G Mellor, University of Southampton, UK
Teaching Staff: Prof.Dr. Kemal ÇORAPÇIOĞLU

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/homework

Recommended Resources: ERİÇ Murat, Yapı Fiziği ve Malzemesi, Literatür Yayınları, İstanbul.

William J.Cavanaugh , Joseph A.Wilkes, Architectural Acoustics / Principles And Practice, Wiley-Academy, 1999

TSE, TS 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 transimition 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/homework

Recommended Resources: Neville, A.M. (1995). Properties of concrete, Prentice Hall, Essex

Postacioğlu, B., “Yapı Malzemesi Dersleri, Bağlayıcı Maddeler, Agregas, 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

İlgili Standardlar: 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/homework

Recommended Resources: . KUMARAN, M.K., vd. [1994] Fundamentals of Transport and Storage of Moisture in Building Materials and Components in Buildings, ASTM Manual Series: MNL 18.

ROSEN, H.J., [1996] Architectural materials for construction, McGraw-Hill Inc.

RANSOM, W. H., [1987], Building Failures, E&FN Spon Ltd, London

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/homework

Recommended Resources: Arpacioğlu Ümit, (2004), ““Yangın Olgusu Ve Yüksek Yapılarda Yangın Güvenliği”, Mimar Sinan Güzel Sanatlar Üniversitesi Fen Bilimleri Enstitüsü Yüksek Lisans Tezi, Aralık 2004

Butcher E.G.,Parnell, A.C., (1979),“Smoke Control in Fire Safety Design”, Londra.

Eriç, M., “Yapı Fiziği ve Malzemesi” Literatür Yayınları, 376s.

John R. Hall, (2001) “High-Rise Building Fires”, Fire Analysis & Research Division NFPA, www.nfpa.org

Kılıç A., (2003), “Kapalı Büyük Mekanlarda Duman Kontrolü” Yangın ve Güvenlik Dergisi, Sayı 75, İstanbul, s.13.

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/homework

Recommended Resources: J.F. Shackelford, McMillan Pub.Co., : Introduction to Materials Science for Engineers, 1998

W. D. Callister Jr., Materials Science and Engineering-An Introduction, John Wiley & Sons, 2000

D.R. Askeland, The Science and Engineering of Materials, , PWS Pub. Co., 1994

K. Onaran, Malzeme Bilimi (ve Problemleri), Bilim Teknik Kitabevi, 1993

Mustafa Doruk Korozyon ve Önlenmesi,Ortadoğu Teknik Üniversitesi,Metalurji Mühendisliği, Elektrokimya,Prof.Dr.Hayri Yalçın,Doç.Dr.Timur Koç,Palme Yayıncılık

Teaching Staff: Prof.Dr.Kemal ÇORAPÇIOĞLU

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/homework

Recommended Resources: KOCATAŞKIN F.," Yapı Malzemesi Bilimi, Özellikler ve Deneyler", Birsen Yayınları, İstanbul, 2000.

AKMAR G.," The Applicability of Sonreb Method on Damaged Concrete", 1. Ulusal Beton Kongresi,1989.

LINDGMIST, E.F.," İstatisteğe Giriş" Çev:Prof.Dr.Hasan Tan, Prof.DR. T.TANER. MEB Yayınları,1989.

DAY.A.R.," Bilimsel Bir Makale Nasıl Yazılır ve Yayınlanır", TÜBİTAK, 1995.

TS 2630 " İstatistik-Verilerin İstatistiksel Yorumu – Ortalama ve Varyasyonlara İlişkin Tahmin Teknikleri ve Testler"

ERSOY H.Y., " Tahribatsız Deney Yöntemleri Ders Notları" (Yayınlanmamış)

Teaching Staff: Prof. Dr. Halit Yaşa ERSOY

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 of mortars and plasters; Additives in mortars and plasters; Analysis of mortars and plasters; Reproduction and accordance tests.

Pre-requisite :-

Assessment methods : written exam/homework

Recommended Resources: Güleç, A., Tulun, T., "Physico Chemical and Petrographical Studies of Old Mortars and Plasters of Anatolia", *Cement and Concrete Research*, 27.2, 1997, pp. 227-234

Güleç, A., "Characterization of Mortars and Plasters from Historic Monuments in Turkey", *Conservation of Historic Brick Structures, Case Studies and Reports of Research*, Edited by; Baer, N.S., Fitz,S. and Livingston, R.A., Donhead, Padstow / UK, 1998, pp. 209-221

Güleç, A., Tulun, T., "Studies of Old Mortars and Plasters from the Roman, Byzantine and Ottoman Period of Anatolia", *Architectural Science Review*, 39.1, 1996, pp. 3-13

Güleç, A., Ersen, A., "Characterization of Ancient Mortars, Evaluation of the Simple and Sophisticated Methods", *Journal of Architectural Conservation*, 1998, pp. 56-67

Güleç, A., "Characterization of Mortars and Plasters from Historic Monuments in Turkey", *Conservation of Historic Brick Structures, Case Studies and Reports of Research*, Edited by; Baer, N.S., Fitz,S. and Livingston, R.A., Donhead, Padstow/UK, 1998, pp. 209-221

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/homework

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/homework

Recommended Resources: L. William Zahner, Architectural Metal Surfaces, Wiley-Academy, 2005.

Bülent Uluengin, Mimari Metaller, Birsen Yayınevi, 2006.

Eriç, M., Yapı Fiziği ve Malzemesi, 2. Baskı, Literatür Yayıncılık, İstanbul, 2002.

George S. Brady, Materials Handbook, Mc Graw-Hill, 1996.

Robert Honeycombe and H.K.D.H. Bhadeshia, Steels: Microstructure and Properties, London : Arnold; New York : Halsted Press, 1996.

İlgili Standardlar: TSE, EN, DIN, ASTM, BS

Teaching Staff: 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/homework

Recommended Resources: : Rodger E. Ziemer, Elements of Engineering Probability and Statistics, Pearson Education 1997.

Walter Rosenkrantz, Introduction to Probability and Statistics for Scientists and Engineers, Mc Graw-Hill, 1997.

Özkan Ünver - Hamza Gamgam, Temel İstatistik Yöntemler, Seçkin Yayıncılık, 2006.

Teaching Staff: Asist Prof. Dr. Cüneyt DİRİ

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/homework

Recommended Resources: Eriç, M., *Yapı Fiziği ve Malzemesi*, Literatür Yayıncılık, 2002.

Teknik tekstiller el kitabı, ed. A.R. Horrocks, S. Anand, İstanbul: Türk Tekstil Vakfı, 2003.

Halit Yaşa Ersoy, Kompozit Malzeme, Literatür Yayıncılık, 2001.

Halit Yaşa Ersoy, Alçı sünger taşı cam lifi Kompoziti, Doktora Tezi, İstanbul : İTÜ Fen Bilimleri Enstitüsü, 1985.

Tsu-Wei Chou, Microstructural Design of Fiber Composites (Cambridge Solid State Science Series), Cambridge University Press, 1992.

Teaching Staff: Asist. Prof. Dr. Hale GEZER

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/homework

Recommended Resources: Ed. Harper A. Charles Handbook of Ceramics, Glasses & Diamonds Mc Graw-Hill 2001

Wigginton, Michael Glass in Architecture Phaidon Press 1996

Plumat, Emile R. Cam Teknolojisinin Temel İlkeleri. Türkiye Şişecam Fabrikaları A.Ş. Araştırma Müdürlüğü Teknik Yayınları No.10, 1986

Kitchen C.A. The Manufacture Of High Quality Space Glass, Society Of Glass Technology. Feb. 1992

Tilley, Richard. Color And The Optical Properties Of Materials Wiley, 2000

Teaching Staff: Assoc. Prof. Dr. Genco BERKİN

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/homework

Recommended Resources: : Brian Edwards, Sustainable Architecture : European Directives and Building Design, Oxford, Architectural Press, 1999.

Necmettin Çepel, Ekolojik Sorunlar ve Çözümleri, Ankara, TÜBİTAK, 2003.

N. Ömer Saatçioğlu, Ekolojik Yapı Sistemleri Saman Yapılar, Y. Lisans Tezi, İTÜ Fen Bil. Enst., 2000.

Peter F. Smith, Architecture in a Climate of Change, Architectural Press, 2006.

Bjorn Berge, Ecology of Building Materials, Architectural Press, 2005.

Teaching Staff: Prof. Dr. Kemal ÇORAPÇIOĞLU

YF 526 MEASUREMENT TECHNIQUES ON PERFORMANCE OF THE BUILDING ENVELOPE

2 Hours/Week, Theory, 2 Credits, 3 ECTS Credits

Objective / Contents: Building Envelope Performance Criteria, Durability, Permeability, Performance Measurements, Measurement of Durability, Accelerated Aging Test, Measurement of Permeability, Manuel Measurement Techniques, Computer-Controlled Measurement.

Pre-requisite :-

Assessment methods : written exam/homework

Recommended Resources: ÇİÇEK,A.,Yapı Düşey Dış Kabuk Bileşenlerinin Performans Belirlenmesi Sürecinde Isı ve Nem Geçişi Ölçümünde Kullanılabilecek Bir Yöntem Önerisi, Doktora Tezi, 2002.
TEZCAN,Y., Sıcak Yapı Elemanlarının Kondansasyon Kontrolü Hesaplarında Kullanılacak Dış Sınır Şartları ve Peryotlarının Belirlenmesi İçin Yeni Bir Metod, İTÜ Mim Fak, 1970.
ZEREN,L., New Bioclimatic Chart for Environmental Design, Proc. of International Congress on Building Energy Management, Portugal, 1980.
ASHRAE, Handbook of Fundamentals, Atlanta: American Society of Heating, Refrigerating and Air Conditioning Engineers, 1993.
YILMAZ,A.Z., İklimsel Konfor Sağlanması ve Yoğuşma Kontrolünde Optimum Performans Gösteren Yapı Kabuğunun Hacim Konumuna ve Boyutlarına Bağlı Olarak Belirlenmesinde Kullanılabilecek Bir Yaklaşım, Doktora Tezi, İTÜ, 1983.
Teaching Staff: Assist. Prof. Dr. Ali ÇİÇEK

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/homework

Recommended Resources: Lambourne, R. Strivens, T.A. 1999. Paint and Surface Coatings, Woodhead Publishing Ltd., Cambridge, England.

Schmid, E. V. 1988. Exterior Durability of Organic Coatings, Fmj International Publications Ltd. England.

Philip, A. Schweitzer, P. E. 1999. Atmospheric Degredation and Corrosion Control, Marcel Dekker Inc, USA.

TSE, TS EN, TS ISO, ASTM, DIN, Teknik şartnameler.

Teaching Staff: Assist. Prof. Dr.Cüneyt DİRİ

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/homework

Recommended Resources: Kemal Çorapçıoğlu, Taş Türleri ve Özellikleri, -1992, Yayımlanmamış Eser

Kemal Çorapçıoğlu, Taş Ayrışmasının Nedenleri ve Koruma Teknikleri-1993, Yayımlanmamış Eser

Kemal Çorapçıoğlu, Taş Kültür ve Teknikleri-1995, Yayımlanmamış Eser

Ashurst,J.-Dimes,Franco,Sone in Building,The Architectural Press Ltd., London, 1977

Bürküt, Yılmaz, Uygulamalı Jeokimya, İTÜ Matbaası, Gümüşsuyu, 1975

Teaching Staff: Prof. Dr. Kemal ÇORAPÇIOĞLU

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/homework

Recommended Resources: A. Brent Strong, *Plastics : Materials and Processing*, Upper Saddle River, N.J. : Prentice Hall, 2000.

Eriç, M., *Yapı Fiziği ve Malzemesi*, 2. Baskı, Literatür Yayıncılık, İstanbul, 2002.

Joseph W Burris, *Plastics As Building Construction Materials*, Structural Plastics Associates, 1960.

Manas Chanda, Salil K. Roy, *Plastics Technology Handbook*, Plastics Technology Handbook, Fourth Edition (Plastics Engineering), CRC, 2006.

Teaching Staff: Asist. prof. Dr. Hale GEZER

YF 531 BINDING MATERIALS

2 Hours/Week, Theory, 2 Credits, 3 ECTS Credits

Objective / Contents: Introduction to binding materials; Historical development of binding materials; The concept of binding materials; Polymer chemistry; Relations between materials and binders; Natural organic binders; Synthetic organic binders; Hydraulic inorganic binders; Non-hydraulic inorganic binders; Use of binding materials in buildings.

Pre-requisite :-

Assessment methods : written exam/homework

Recommended Resources: Pizzi, A., Mittal, K.L, *Handbook of Adhesive Technology*, Marcel Dekker Inc New York, 2003.

Eriç, M., *Yapı Fiziği ve Malzemesi*, Literatür Yayıncılık, 2002.

Museums and Galleries Comission, *Adhesives and Coatings*, New York, 1992

Kleiner-Masschelein, L., *Ancient Binding Media, Varnishes and Adhesives*, ICCROM, Rome, 1995

Teaching Staff: Prof. Dr. Kemal ÇORAPÇIOĞLU

DIVISION OF INTERIOR ARCHITECTURE

Division Head : Prof. Onur ALTAN

Tel: 0212 252 1600 / 269

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.Dr. Onur ALTAN *Mimar*

Lisans; D.G.S.A. 1968 , Y. Lisans; Columbia University 1970, Doktora; M.S.Ü.1983, Profesör; M.S.Ü. 1991

Yrd.Doç.Dr. Saadet AYTIS, *Mimar*

Lisans; M.S.Ü, Y. Lisans; M.S.Ü.1986, Doktora; M.S.Ü. 1996, Yardımcı Doçent; M.S.Ü. 1997

Yrd.Doç.Dr. İpek FİTÖZ, *Mimar*

Lisans; M.S.Ü. 1996, Y. Lisans; 1999, Doktora; M.S.Ü. 2002, Yardımcı Doçent; M.S.Ü. 2003

Yrd.Doç. Şebnem UZUNARSLAN, *İç Mimar*

Lisans;M.S.Ü. 1988, Y.Lisans; M.S.Ü. 1991, Sanatta Yeterlik- M.S.Ü. 2002, Yardımcı Doçent; M.S.Ü.

Yrd.Doç. Senem ONUR, *İç Mimar*

Lisans; M.S.Ü. 1988, Y.Lisans; M.S.Ü. 1992, Sanatta Yeterlik; M.S.Ü. 2001, Yardımcı Doçent; M.S.Ü. 2001

Yrd.Doç.Bahar Ülker KAYA *İç Mimar*

Lisans; Bilkent Üniversitesi 1994, Y.Lisans; M.S.Ü.1996, Sanatta Yeterlik; M.S.Ü. 2001, Yardımcı Doçent; M.S.Ü. 2003

Yrd.Doç.Burak TANSEL *Dekor-Kostüm Tasarımcısı*

Lisans; D.G.S.A,Y.Lisans; D.G.S.A.1982, Sanatta Yeterlik; M.S.Ü. 1990, Yardımcı Doçent; M.S.Ü. 1992

Yrd. Doç. Dr. Didem BEDÜK

Lisans; Bilkent Üniversitesi, 1994, Y.Lisans; MSÜ.1998, Sanatta Yeterlik; M.S.Ü. 2003

Yrd. Doç. Dr. Atilla SÖĞÜT

Lisans; MSÜ, 1997, Y.Lisans; MSÜ.2002

Yrd. Doç. Dr. Emre KAVUT

Lisans;MSÜ, 1997, Y.Lisans; MSÜ.2002

Yrd. Doç. Dr. Şenay BODUROĞLU

Lisans;Selçuk Üniversitesi, 1997, Y.Lisans; MSÜ.2001

Yrd. Doç. Dr. Osman ARAYICI

Y.Lisans; MSÜ.2001.

Yrd. Doç. Dr. Burçin Cem ARABACIOĞLU

Lisans;MSÜ, 2000, Y.Lisans; MSÜ.2002, Sanatta yeterlik; MSGSÜ, 2005.

YARI ZAMANLI

Prof. Oya BOYLA, *İç Mimar*

Lisans; D.G.S.A. 1961,Y.Lisans; Pratt Institute.1964, Doçent; D.G.S.A. 1989, Profesör; M.S.Ü. 2002

Prof.Dr. Nuran YENER *Mimar*

Lisans;D.G.S.A,Yüksek Lisans D.G.S.A. 1970, Doktora; M.S.Ü. Mimarlık 1982; Doçent; M.S.Ü. 1991, Profesör; M.S:Ü. 20001

Öğr. Gör. İnci DURAK

GRADUATE COURSE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
IM 500 Seminar	0	2	Elective Courses		30
IM 591 Project	4	10			
Elective Courses		18			
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis		30
Total		30	Total		30

DOCTORATE IN FINE ART PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
Elective Courses		30	Elective Courses		30
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis / work proposal report		30	Thesis / work proposal report		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis / work proposal report		30	Thesis / work proposal report		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis / work proposal report		30	Thesis / work proposal report		30

Total	30	Total	30
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ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
IM 503 Furniture and Space From Middle Age till 19 th Century	2	5	IM 501 Efficient Factors on Forming Furniture	2	5
IM 505 Digital Spatial Design Models	2	5	IM 502 Illumination in Interior Architecture	2	5
IM 506 Researching of furniture solutions on space organizations	2	5	IM 504 Technologic Efficient of the Kitchen Design	2	5
IM 509 Materials and Application of Materials in Interior Architecture	2	5	IM 505 Digital Spatial Design Models	2	5
IM 511 Contemporary Installations in Interior Architecture	2	5	IM 510 Furniture Designing	2	5
IM 519 Interior Space Organization in Mobile Houses	2	5	IM 518 Progress of Contemporary Furniture and Interior Architecture	2	5
IM 523 Formation of Identity and Perception in Interior Design	2	6	IM 523 Formation of Identity and Perception in Interior Design	2	6
IM 527 Methods of Decoration on Construction Supplies	2	5	IM 524 Selection of Materials in Interior Design	3	6
IM 530 Information / Communication Age and Design	2	5	IM 526 Methods of Decoration on Wood	2	5
IM 531 Interiors and Furniture in the Houses of Early Republican Period	2	5	IM 528 Interior Architectural Matters in High Rise Buildings	2	5
IM 534 Furniture in Design Activities	2	5	IM 530 Information / Communication Age and Design	2	5
IM 535 Techniques of Painting	3	6	IM 531 Interiors and Furniture in the Houses of Early Republican Period	2	5
IM 555 Factors That Determine Perception Of Space	3	6	IM 533 Architectural Glasses	2	5
IM 557 Display Design As An Informative Affair In Commercial Spaces	3	6	IM 536 Advanced Techniques of Expression	3	6
			IM 556 Factors That Determine Defining Space	3	6
			IM 592 Project	4	10

COURSE CONTENTS

REQUIRED COURSESS

IM 500 SEMINAR

1 hours/week, non-credit, 2 ECTS credits

Objective / Contents: Assessment method: Searching the interiors at important architectural buildings which have different functions and analysing the result.

Pre-requisite: -

Assessment method: Written exam and homework

Recommended Resources:

Teaching Staff: Prof. Oya BOYLA

IM 591 PROJECT

8 hours/ week, studio, 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 homework

Recommended Resources: All the architectural and interior architectural projects.

Teaching Staff: Prof. Onur ALTAN, Prof. Nuran YENER, Assist. Prof. Dr. Saadet AYTIS, Assist. Prof. Dr. Senem ONUR, Assist. Prof. Dr. Burak TANSEL, Yrd. Doç.Dr. Dr. İpek FİTOZ, Assist. Prof. Dr. Şebnem UZUNARSLAN, Assist. Prof. Dr. Bahar Ülker KAYA, Assist. Prof. Dr. İ. Emre KAVUT, Assist. Prof. Dr. Didem BEDÜK, Assist. Prof. Dr. M. Atilla SÖĞÜT, Assist. Prof. Dr. Şenay BODUROĞLU, Assist. Prof. Dr. Osman ARAYICI, Assist. Prof. Dr. 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 method: written exam and homework

Recommended Resources: Lecture Notes

Teaching Staff: Assist. Prof. Dr. Atilla SÖĞÜT

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 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 method: Presentation and homeworks

Recommended Resources: ÖZKAYA , M., “Aydınlatma Tekniği”

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

Teaching Staff: Assist. 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 between the years of 1450 and 1910.

Pre-requisite: -

Assessment method: Written exam and homeworks

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 method: homeworks

Recommended Resources: KAVUT, E., "Konut mutfağı tasarımında teknolojik etkenler", 2004.

KENNEDY, W.R., "The house and the art of it's design"

GÜRSOY, D. "Yemek ve Yemekçiliğin Evrimi"

TASCHEN, "Informal Kitchens".

Teaching Staff: Assist. Prof. Dr. Emre KAVUT

IM 505 DIGITAL SPATIAL DESIGN MODELS

3 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 method: Homeworks

Recommended Resources: Arabacıoğlu B. C. (2005) Akıllı bina sistemleri ile etkileşimli kişiselleşebilir iç mekan kavramı ve geleceğin akıllı iç mekan tasarımı süreci için bir model önerisi, Sanatta yeterli tezi, MSGSÜ Fen Bilimleri Enstitüsü

Oxman R. (2006) Theory and design in the first digital age, Design Studies 27 229-265

Kalay Y. E. (2006) The impact of information technologies on design methods, products and practice, Design Studies 27 357-380

Jonson B. (2005) Design ideation: the conceptual sketch in the digital age, Design Studies 26 613-624

Toley M. ve Owen J. (2000) Sketching and direct CAD modelling in automotive design, Design Studies 21 569-588

Teaching Staff: Assist. Prof. Burçin Cem ARABACIOĞLU

IM 506 RESEARCHING OF FURNITURE SOLUTIONS ON SPACE ORGANIZATIONS

3 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.

3 hours/ week, theory, 3 credits, 6 ECTS credits

Objective / Contents:

Pre-requisite: -

Assessment method: written exam and homeworks
Recommended Resources: Lecture notes
Teaching Staff: Assist. 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 practices 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 method: Written exam and homeworks

Recommended Resources: YENER, N. "Gelişim süreci içinde malzeme, yapım yönetimi, biçim ilişkisi" Yeterlilik Tezi

AMSTEAD, B, H, "Manufacturing Processes" New York 1985

Teaching Staff: Prof. Nuran YENER

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 which in 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 method: Written exam and homeworks

Recommended Resources:

Teaching Staff: Assist. Prof. Dr. Senem OKUR

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 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 method: Presentation and homeworks

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

Teaching Staff: Assist. Prof. Dr. İpek FİTOZ

IM 518 CONTEMPORARY FURNITURE AND PROGRESS INTERIOR ARCHITECTURE

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

Objective / Contents: 19th Century and afterwords in furniture.

Pre-requisite: -

Assessment methods: Written exam and homeworks

Recommended Resources:

Teaching Staff: Prof. Oya BOYLA

IM 519 INTERIOR SPACE ORGANISATION IN MOBILE HOUSES

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

Objective / Contents: Definition of house from the notion of venacular shelters. Prolongation of the first mobile house "tent" which is a result of nomadic social life into today's life and today's mobile

houses, equipments which are the products of high technology. Evolution of interior space according to human factors.

Pre-requisite: -

Assessment method: Written exam and homeworks

Recommended Resources: Lecture Notes

Teaching Staff: Prof. Onur ALTAN

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 Method: Written exam and homeworks

Recommended Resources: MEISS, P. "Elements of Architecture from Form to Place", 1990

AYDINLI, S., "Mimarlıkta Görsel Analiz", İTÜ Mim. Fak., 1992

CHING, F. "Mimarlık, biçim, mekan ve düzen", YEM, 2002

GÜRER, L., "Temel tasarım", 2004

SUSMANEZ, M., "Basic Design the Dynamics of Visual Form", 1992.

Teaching Staff: Assist. Prof. Dr. 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 method: Written exam and Project

Recommended Resources: YENER, N. "Özellikten Biçime" Profesörlük çalışması, 2000

Teaching Staff: Prof. Dr. 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 maraquetry on wood and renovations, original lacquer varnishing and renovations, original shellac varnishing and renovations.

Pre-requisite: -

Assessment method: Written exam and homeworks

Recommended Resources: EUROPEO, C., "Venedik Ders Notları"

MOREL, H., "1985-1986 Venedik Centro Europeo"

ZILLER, M., "Centro Europeo"

Teaching Staff: Öğr. Gör. 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 method: Written exam and homeworks

Recommended Resources: EUROPEO, C., "Venedik Ders Notları"

MOREL, H., "1985-1986 Venedik Centro Europeo"

ZILLER, M., "Centro Europeo"

Teaching Staff: Öğr. Gör. 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 method: Written exam and homeworks

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

Teaching Staff: Assist. Prof. Dr. Saadet AYTIS

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 method: homeworks

Recommended Resources: HAUFFE, T., “Design a Concise History” Laurence King Publishing, London, 1998.

FIELL, Charlotte&Peter, “Design of the 20th Century”, Taschen, Cologne, 1999.

MASSEY, A., “Interior Design of the 20th Century”, Thames&Hudson, London, 1990.

Teaching Staff: Assist. Prof. Dr. Didem BEDÜK

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 method: Written exam and homeworks

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

Teaching Staff: Assist. Prof. Dr. Şebnem UZUNARSLAN

IM 533 ARCHITECTURAL GLASSES

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

Objective / Contents: Structure of glass, floatglass production, tempered glass, laminated glass, glasses for isolation, fotosensitive and phototroph glasses sandwich glasses, glasses for controlled reflection, glassprofiles, application of glassart in construction.

Pre-requisite: -

Assessment method: Written exam and homeworks

Recommended Resources: SCHOLZE, H., “Glas”, Springer Verlag, Berlin, 1988

PYE, L.D., Schmelzer, J., “Introduction to Glass Science”, Plenum Press, New York, 1972.

WIGGINTON, M., “Glas in Architecture”, Phaiton Press, London, 1990.

Şişecam, Cam Yapı Elemanları Kataloğu.

TOYDEMİR, N., “Cam Yapı Malzemeleri”. Sakarya Matbaacılık, 1990.

Teaching Staff: Assist. Prof. Dr. İlhan HASDEMİR

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 method: Written exam and homeworks

Recommended Resources:

Teaching Staff: Assist. Prof. Dr. Senem OKUR

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 method: Homeworks

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

Teaching Staff: Assist. Prof. Dr. 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 method: Homeworks

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

Teaching Staff: Assist. Prof. Dr. Burak TANSEL

IM 555 FACTORS THAT DETERMINE PERCEPTION OF SPACE

3 hours/ week, theory, 3 credits, 6 ECTS credits

Objective / Contents: concieving the factors that determine perception of space

Pre-requisite: -

Assessment method: Homeworks

Recommended Resources: Mekanın algılanmasını belirleyen faktörler y. lisans tezi osmana arayıcı msgsü fen bilimleri enst. iç mim. anasanat dalı 2001

İnanışların mekanın betimlenmesi üzerindeki etkileri sanatta yeterlik tezi osman arayıcı msgsü fen bilimleri enstitüsü iç mimarlık anasanat dalı 2003

Teaching Staff: Assist. Prof. Osman ARAYICI

IM 556 FACTORS THAT DETERMINE DEFINING SPACE

3 hours/ week, theory, 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 method: Homeworks

Recommended Resources: Mekanın algılanmasını belirleyen faktörler y. lisans tezi osmana arayıcı msgsü fen bilimleri enst. iç mim. anasanat dalı 2001

İnanışların mekanın betimlenmesi üzerindeki etkileri sanatta yeterlik tezi osman arayıcı msgsü fen bilimleri enstitüsü iç mimarlık anasanat dalı 2003

Teaching Staff: Assist. Prof. Osman ARAYICI

IM 557 DISPLAY DESIGN AS AN INFORMATIVE AFFAIR IN COMMERCIAL SPACES

3 hours/ week, theory, 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 method: Homeworks

Recommended Resources: MORENO, S. The Culture of Shop Window Design

TUFTE, E.R. The Visual Display of Quantitative Information

BOZKURT, İ. Nütünleşik Pazarlama İletişimi

UNDERHILL, P. İnsanlar Neden Alışveriş Yapar

Teaching Staff: Assist. Prof. Osman ARAYICI

IM 592 PROJECT

8 hours/ week, studio, 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 homework

Recommended Resources:

Teaching Staff: Prof. Onur ALTAN, Prof. Nuran YENER, Assist. Prof. Dr. Saadet AYTIS, Assist. Prof. Dr. Senem ONUR, Assist. Prof. Dr. Burak TANSEL, Yrd. Doç.Dr. Dr. İpek FİTOZ, Assist. Prof. Dr. Şebnem UZUNARSLAN, Assist. Prof. Dr. Bahar Ülker KAYA, Assist. Prof. Dr. İ. Emre KAVUT, Assist. Prof. Dr. Didem BEDÜK, Assist. Prof. Dr. M. Atilla SÖĞÜT, Assist. Prof. Dr. Şenay BODUROĞLU, Assist. Prof. Dr. Osman ARAYICI, Assist. Prof. Dr. Burçin Cem ARABACIOĞLU

DIVISION OF URBAN AND REGIONAL PLANNING

Division Head: Prof. Dr. Güzin KONUK

Tel: 0212 252 1600 / 298

- 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 studios, seminar programs and workshops. These courses are given by 11 Professors, 4 associate professors, 6 assistant professors and 5 instructors.
- The total number of students including new comers and the former students expected for the coming fall semester of the year 2003-2004 is 44 for the masters' and 24 for the doctorate programs.

TEACHING STAFF FULL TIME

Prof. Dr. Aykut Karaman, *Mimar ve Kent Tasarımcısı*
Yüksek Lisans: D.G.S.A. 1973;Doktora: University of Pennsylvania 1983., Yardımcı Doçent; M.S.Ü. 1988, Profesör; M.S.Ü. 1996

Prof. Dr. Güzin Konuk, *Mimar ve Kent Tasarımcısı*
Lisans; D.G.S.A. 1973, Y. Lisans; Heriot Watt University / Edinburg collage of Arts Kentsel Tasarım 1977, Doktora; M.S.Ü. 1991.

Doç. Dr. Güzin Kaya, *Mimar ve Şehir Plancısı*
Lisans; İ.T.Ü. 1968, Y.Lisans; Paris Sorbone Üniversitesi 1973, Doktora; Paris Sorbone Üniversitesi, Yardımcı Doçent; M.S.Ü.1991, Doçent; M.S.Ü. 2000

Doç. Dr. Gülşen Özyaydın, *Mimar ve Kent Tasarımcısı*
Lisans; İ.T.Ü. 1982; Y.Lisans; M.S.Ü.1984, Doktora; M. S.Ü. 1994,Yardımcı Doçent; M.S.Ü.1994, Doçent; M.S.Ü. 2001

Doç. Dr. Fatma Ünsal, *Kent Plancısı*
Lisans; O.D.T.Ü. 1984, Y. Lisans;M.S.Ü. 1994, Doktora; M.S.Ü. 2000; Yardımcı Doçent; M.S.Ü.2001, Doçent; M.S.G.S.Ü. 2006

Yrd. Doç. Dr. F.Dilek Aktürk, *Mimar ve Kent Tasarımcısı*

Y. Lisans; M.S.Ü. 1984, Doktora; M.S.Ü. 1998, Yardımcı Doçent; M.S.Ü.1998

Yrd. Doç. Dr. Bilge Ulusay Alpay, *Mimar ve Kent Tasarımcısı*

Y. Lisans; M.S.Ü. 1985, Doktora; M.S.Ü. 1998, Yardımcı Doçent; M.S.Ü.1998

Yrd. Doç. Dr. Pelin Gökğür, *Mimar ve Kent Tasarımcısı*

Y. Lisans; M.S.Ü. 1984, Doktora; M.S.Ü. 2000, Yardımcı Doçent; M.S.Ü.1998

Yrd. Doç. Dr. M.Teoman Tekkökoğlu, *Kent Plancısı*

Lisans;M.S.Ü. 1987;Y. Lisans; M.S.Ü.1989,Doktora; M.S.Ü.1997, Yardımcı Doçent; M.S.Ü.1998

Yrd. Doç. Dr. Hürriyet Öğdül, *Kent Plancısı*

Lisans ; O.D.T.Ü.1983; Y.Lisans ; O.D.T.Ü.1987; Doktora ; M.S.Ü. 1999, Yardımcı Doçent ; M.S.Ü. 2000

Yrd. Doç. Dr. A.Erdem Erbaş, *Kent Plancısı, Mimarlık Fakültesi Dekan Yardımcısı,*

Lisans; M.S.Ü.1993, Y.Lisans; M.S.Ü. 1995; Doktora; M.S.Ü. 2000. Yardımcı Doçent; M.S.Ü.2001

Yrd. Doç. Dr. Arzu Kocabaş, *Mimar*

Lisans; İT.Ü. 1984, Y.Lisans;M.S.Ü. 1989; Doktora; L.S.B.U. 2000, Yardımcı Doçent; M.S.Ü.2001

Yrd. Doç. Dr. M. Turgay Gökçen, *Coğrafyacı*

Lisans; İ.Ü. 1978; Doktora: İ.Ü Kentsel Coğrafya, 1994; Doktora;..., Yardımcı Doçent; M.S.Ü. 2002.

Yrd. Doç. Dr. Pelin GÖKGÜR

Yrd. Doç. Dr. Bilge ULUSAY ALPAY

Yrd. Doç. Dr. Binnur ÖKTEM

Yrd. Doç. Dr. Kevser ÜSTÜNDAĞ

Yrd. Doç. Dr. Dilek ERDEN ERBEY

Öğr. Gör. Dr. Nuran Yavuz

Lisans; Fairleigh Dickinson Üniversitesi, 1967; Y. Lisans: Boğaziçi Üniversitesi, 1984; Doktora: MSGSÜ. 2001

YARI ZAMANLI

Prof. Dr. İsmet Vildan Alptekin, Rektör

Doçent; M.S.Ü. 1989, Profesör; 1991.

Prof. Dr. İsmet Okyay, *Mimar*

Lisans ; İ.T.Ü. 1965, Y.Lisans ; Institut d'Urbanisme de P'Université de Paris 1970, Doktora ; Université de Paris I (Sorbonne) 1974, Doçent ; M.S.Ü.1995, Profesör ; M.S.Ü. 2001

Prof. Dr. Turgut Öztaş, *Jeoloji Mühendisi*

Y.Lisans: İ.T.Ü. 1973; Doktora: İTÜ 1989; Yardımcı Doçent; İ.T.Ü. 1992, Doçent; M.S.Ü. 2000, Profesör; M.S.Ü. 2003

Doç. Dr. S. Akın Eryoldaş, *Mimar ve Şehir Plancısı*

Prof. Dr. İsmet KILIÇARSLAN

Prof. Dr. Esin KÜNTAY

Prof. Dr. Sümer Gürel

Prof. Dr. Erol TÜMERTEKİN

Lisans; İ.Ü. Doktora; 1952, Doçent; 1956, Profesör: 1964

Prof. Dr. Akın ERYOLDAŞ

Prof. Dr. Mike GIBSON

Prof. Dr. John LOVERING

Doç. Dr. Sema Ergönül,

Mimar ; ITU 1982, Y. Mimar; ODTU 1988, Doktora ; MSU 2002. Doçent; MSGSU 2006

Doç. Dr. Adalet ALADA

Yrd. Doç. Dr. Aslı ÖĞÜT

Öğr. Gör. Cengiz BEKTAŞ

Lisans; Münih Teknik Üniversitesi. 1959

Öğr. Gör. Dr. Orhan DEMİR

Öğr. Gör. Oktay EKINCI

Öğr. Gör. Halit REFİĞ

Öğr. Gör. Faruk GÖKSU

Dr.İclal KAYA ALTAY

URBAN CONSERVATION AND RENEWAL COURSE PROGRAM

GRADUATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
PLK 501 Methods and Techniques of Urban Conservation and Regeneration	3	6	PLK 502 Urban Conservation and Renewal Studio	4	8
PLO 541 Studio of Monitoring Urban Development	4	8	PLK 503 Urban Conservation and Renewal: Conservation and Principles	3	6
PLO 547 Seminar	0	4	PLO 547 Seminar	0	4
Elective Courses		12	Elective Courses		12
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30			30
Total		30	Thesis		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
PLK 506 Assessment of Historic Environment and Case Studies from the World	3	4	PLK 504 Models in Urban Regeneration	2	4
PLK 511 Conservation Policies	2	4	PLK 505 London: regeneration of a world city	3	4
PLK 514 Sustainable Urban Regeneration	3	4	PLK 510 Changes in Cultural Environment and Local Identity	3	4
PLK 515 Urban Regeneration in Turkey	3	4	PLK 516 Urban Regeneration: International Experiences	3	4
PLO 545 Urban Visions	2	4	PLK 517 Traditional Urban Fabrics	3	4
PLO 548 Urban Morphology	3	4	PLO 542 Research Techniques in Urban Planning	2	4
PLO 549 Computer Aided Planning and Design	2	4	PLO 544 New Technologies in Urban Planning and Design	2	4
			PLO 546 Istanbul and Immigration	2	4
			PLO 548 Urban Morphology	2	4
			PLO 550 Istanbul and Globalization	2	4

COURSE CONTENTS

REQUIRED COURSESS

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 and Assignment

Recommended Resources: KOCABAŞ, A., "Sustainable Community Buildings in London and Issues for İstanbul"; paper presented at 14. urban Design and Imp. Semposium on Urban Regeberation and Design, İstanbul, MSU, 2003.

KOCABAŞ, A., "Sustainable Neighbourhood Regeneration and Conservation Strategies", paper presented at Sustainable Neighbourhood Regeneration in İstanbul as Part of EU Harmonisation Process and Earthquake Resistant Housing Development, İstanbul, MSU, 2002.

UCHFIELD, N., "Economics in Urban Conservation", Cambridge, 1988.

Teaching Staff: Assist. Prof. Dr. Arzu KOCABAŞ

PLK 502 URBAN CONSERVATION AND RENEWAL STUDIO

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

Objective / Contents:

Pre-requisite: -

Assessment Methods: Undertaking research / preparing presentations / participating in the groups work

Recommended Resources:

Teaching Staff: Prof. Dr. İsmet OKYAY, Assist. Prof. Dr. Arzu KOCABAŞ, Assist. Prof. Dr. Dilek ERDEN ERDEY

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

Recommended Resources: OKYAY, İ., “Kentsel Koruma ve Geliştirme Planlaması”, Çoğaltılmış Ders Notu.

OKYAY, İ., “Fransa’da Kentsel Sit Alanlarının Korunması”, Malraux Yasası, YEM yayını

ZEREN, N., “Kentsel koruma”. Ders notları, İTÜ, çoğaltılmış baskı.

Kentsel Koruma ve Yenileme Sempozyumları (1’den 12) Bildirileri, MSU, Şehir ve Bölge Planlama Bölümü Yayınları.

Teaching Staff: Asist 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 Method: Written exam

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 studios 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 Method: Project and presentation

Recommended Resources:

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

PLK 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 Method: Attendance and discussions

Teaching Staff: Prof. Dr. Sümer GÜREL, Öğr. Gör. Dr. Nuran YAVUZ

ELECTIVE COURSES

PLK 505 LONDON, REGENERATION OF A WORLD CITY

2 hrs/week, theory, 2 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 Method: Written exam

Recommended Resources:

Teaching Staff: Assist. 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 21st century.

Pre-requisite: -

Assessment Method: Paper and presentation

Recommended Resources: KOCABAŞ, S. "Urban Conservation Planning Mayoral Vision and Development Outcomes in Central İstanbul", Proceedings of 3rd Sharjah International Urban Planning Symposium, April 17-19, 2000.

LICHFIELD, N., "Economics in urban Conservation", Cambridge, 1988.

OKYAY, I., "Fransa'da Kentsel Sit Alanlarının Korunması: Malraux yasası", İstanbul, YEM, 2001.

OUF, A.S., "Urban Conservation on Concepts for the New Millennium in the UAE", UAE, 2001.

Teaching Staff: Assist. 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 Method: Written exam

Recommended Resources: EKİNCİ, O., "İstanbul'u Sarsan On Yıl", Anahtar Kitaplar, kent ve Çevre Dizisi, İstanbul, 1993

TMMOB Mimarlar Odası yayınları, 2002.

Teaching Staff: Öğr. Gör. Oktay EKİNCİ

PLK 511 CONSERVATION POLICIES

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

Objective / Contents: Environment, underdevelopment, conservation, human settlement management, natural assets management, pollution, education and its social and cultural aspects, organization, human rights, national assets, resource categories, law defining status, conservation laws, preventive and compulsive laws, deeds, ownership of public and private agencies

Pre-requisite: -

Assessment methods: written exam and homework

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

EKİNCİ, O., “İnsan Hakları ve Çevre“. Anahtar Kitaplar, kent ve Çevre Dizisi, istanbul, 1998.

Teaching Staff: Öğr. Gör. 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: homework

Recommended Resources: ARU

Teaching Staff: Assist. 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: homework

Recommended Resources: ARU

Teaching Staff: Prof. Dr. Güzin KONUK, Öğr. Gör. Faruk GÖKSU

PLK 517 TRADITIONAL URBAN FABRICS

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam / homework

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: written exam / homework

Recommended Resources: “Sosyal Araştırma 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 / homework

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: written exam / homework

Recommended Resources: : BARNETT, J., "The Elusive City". The Herbert Press, 1986.

DREW, R., "The City". Penguin Books, London, 1997.

ELLIN, N., "Postmodern Urbanism", 1996

HALL, P. and Ulrich P. (eds). "Urban Future 21". E&FN Spon, London.

RYKWERT, J., "The Ideas of a Town", The Abthropology of Urban Form, 1988.

Teaching Staff: Prof. Dr. Aykut KARAMAN

PLO 546 ISTANBUL AND IMMIGRATION

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam / homework

Recommended Resources:

Teaching Staff: Dr. Nuran YAVUZ

PLO 548 URBAN MORPHOLOGY

3 hrs/week, theory, 3credits, 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: written exam / homework

Recommended Resources: KARAMAN, A., "Defining Regional Identity: Conceptual Parameters of Urban Morphology", 4th Int. Seminar on UM. University of Birmingham, 1997.

LOZANO, E.E., "Community Design and The Culture of Cities". Cambridge University Press, 1990.

LYNCH, K., "Good City Form", MIT Press, 1981.

NORBERG, S. C., Genins Loci. Rizzdi, 1979.

PANERAI, P., « Analyse Urbaine ». Edition Parentheses. 72 Course, Julien 13006, Marseille, 1999.

Teaching Staff: Prof. Dr. Aykut KARAMAN

PLO 549 COMPUTER AIDED PLANNING AND DESIGN

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam / homework

Recommended Resources:

Teaching Staff: Assist. Prof. Dr. Turgay GÖKÇEN

PLO 550 ISTANBUL AND GLOBALIZATION

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam / homework

Recommended Resources:

Teaching Staff: Prof. Dr. Güzin KONUK

URBAN PLANNING COURSE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
PLP 503 Urban Planning Theory and Techniques	3	6	PLP 502 Urban Planning Studio	4	8
PLO 541 Studio of Monitoring Urban Development	4	8	PLP 509 Reformist Approaches in Urban Planning	3	6
PLP 547 Seminar	0	4	PLO 547 Seminar	0	4
Elective Courses		12	Elective Courses		12
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
PLP 504 Urban Politics and Governance	3	4	PLP 506 Planning Approaches in Metropolitan Areas	3	4
PLP 505 Rural Development and Methods of Rural Planning in Turkey	3	4	PLP 508 Tools of Implementation in Urban Planning	2	4
PLP 507 The New Approaches of National and Regional Planning in the EU Process	3	4	PLP 509 Reformist Approaches in Urban Planning	2	4
PLP 513 Social Mobility and Social Change	2	4	PLP 510 Urban Transportation	2	4
PLP 515 Ecological Planning	2	4	PLP 512 Risk Management in Urban Planning	2	4
PLP 521/ Geography of Urbanization	2	4	PLP 514 Environmental Policies	2	4
PLP 524 Transportation	2	4	PLP 516 Local Authorities and	2	4

Policies			Planning		
PLP 525 Urban Teories	3	4	PLP 519 Theory of Regional Planning	3	4
PLP 530 Project Development and Management	2	4	PLP 520 EU and Planning Policies	3	4
PLO 545 Urban Visions	2	4	PLP 522 History of Urban Management	3	4
PLO 549 Computer Aided Planning and Design	2	4	PLP 523 Environmental Discourses and Policies	2	4
			PLP 546 Urban Economics	2	4
			PLO 542 Research Techniques in Urban Planning	2	4
			PLO 544 New Technologies in Urban Planning and Design	2	4
			PLO 546 Istanbul and Immigration	2	4
			PLO 548 Urban Morphology	2	4
			PLO 550 Istanbul and Globalization	2	4

COURSE CONTENTS

REQUIRED COURSESS

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: Assignment

Teaching Staff: Doç. Dr. Fatma ÜNSAL, Yrd. Doç. Dr. Hürriyet ÖĞDÜL, Yrd. Doç. Dr. Teoman TEKKÖKOĞLU, Yrd. Doç. Dr. Kevser ÜSTÜNDAĞ

PLP 503 URBAN PLANNING THEORY AND TECHNIQUES

3 hrs/week, theory, 3 credits, 3 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.. Akın ERYOLDAŞ

PLP 509 REFORMIST APPROACHES IN URBAN PLANNING

2 hrs/week, theory, 2 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: homework

Recommended Resources: NEWMAN, P. and Thornley, A., "Urban Planning in Europa". Routhledge, London, 1990.

SASSEN, S., "Globalisation and Its Discontents", The New Press, New York, 1998. HALL, S. and Jacques, M., "Yeni Zamanlar", Ayrıntı, İstanbul, 1990.

PETERSON, P., "City Limits", the University of Chicago Press, Chicago, 1981.

Teaching Staff: Assist. 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 studios to do researches in a given critical urban development area for monitoring the developments and detecting the trends in order to formulate concepts for action plans.

Pre-requisite:

Assessment Method: Project and presentation

Recommended Resources:

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

PLP 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 Method: Attendance and discussions

Recommended Resources: SELDMAN, A., "Culture and Society", Cambridge University Press, 1984. ELLIN, N., "Post-Modern Urbanism", Blackwell Publishers, Oxford, 1996.

Teaching Staff: Prof. Dr. Sümer GÜREL, Öğr. Gör. Dr. Nuran Yavuz

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: homework

Recommended Resources: KOSIMAN, J. (ed), "Modern Governance: New Government- Society Interactions", Sage, London, 1994.

"Demokrasi Kitaplığı, Katılımcı Demokrasi, Kamusal Alan ve Yerel Yönetim", Walo, İstanbul, 1998.

ŞENGÜL, T., "Kentsel Çelişki ve Siyaset", Walo, İstanbul, 2001.

TEKELİ, İ., "Modernite Aşılırken Kent Planlaması", İmge, Ankara, 2001

Teaching Staff: Doç.Dr.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

Recommended Resources: "75 Yılda Köylerden Şehirlere". Türkiye İş Bankası yayını, İstanbul, 1999.

YERASIMOS, S., „Az Gelişmişlik Sürecinde Türkiye“. Gözlem Yayını.

LEE, K., Holland, A. and McNeill, D., "Global Sustainable Development in the 21st Century", Edinburgh Univ. Press, 2000.

AB, „Ortak Tarım Politikası“

Teaching Staff: Yrd. Doç.Dr. Hürriyet 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 and presentation

Recommended Resources: TEKELİ, İ., "The Development of İstanbul Metropolitan Area", Emme Publication.

İBB, "Metropolitan Alan", Yönetimde Yeni Arayışlar, 2001.

TUBİTAK, 10. Ulusal Bölge Bilimi/Bölge Planlama Kongresi, "AB ile Uyum ve Bütünleşme", İTÜ Mim. Fak., 2002.

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

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 and presentation

Recommended Resources: "The European Spatial Development Perspective", 1999

Planlama Dergisi 97/1. "Bölge Planlama", 1997

MGK Genel Sekreterliği, "Türkiye'de Bölge Planlamasının Evreleri", Yay. 2, Ankara, 1993.

Şehir Plancılar Odası, 25. Dünya Şehircilik Günü, "AB Süreci ve Planlama, Ankara", Kasım 2001.

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

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: Assoc. Prof. Dr. Akın ERYOLDAŞ

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 and Assignment

Recommended Resources: PEARS, D., "Transport and the Environment", London, 2003.

HENSHER, D., "Transport Strategy Policy Institutions".

Teaching Staff: Assist. Prof. Dr. Kevser ÜSTÜNDAĞ

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 effect 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: homework

Teaching Staff: Prof. Dr. Esin KÜNTAY

PLP 514 ENVIRONMENTAL POLICIES

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

Objective / Contents: Provision of an environmental management that assesses environmental impacts of spatial decisions and lessen its negative effects require;

- To develop an ecological approach
- To evaluate environmental parameters in decision making process and
- To improve environmental policies relating professional skills

The students will investigate the tools for conservation of environmental assets within the framework of current approaches to environment in international and national framework, of politics and policies

Thus, in spite of increasing environmental problems, improving a way to meet needs of people with minimum cost on environment will be possible

Pre-requisite: -

Assessment Methods: Presentation and Assignment

Recommended Resources: Felsefelogos, “Ekoloji Felsefesi ve Etiği”, Bulut Yayınevi, İstanbul, 1999.

KELEŞ, R. And Ertan, B., “Çevre Hukukuna Giriş”, İmge, 2002

BROWN, L., Plavin, C. And Postel, S., “Gezeganimizi Kurtarmak”, TÜBİTAK-TEMA Vakfı yayınları, 1997.

KABOĞLU, İ., “Çevre hakkı”, İletişim yayınları

GUPTA, A., “Üçüncü Dünya Ülkelerinde Çevre ve Kalkınma”, Kabalcı yayınevi, 1993.

Teaching Staff: Assist. Prof. Dr. Teoman TEKKÖKOĞLU

PLP 515 ECOLOGICAL PLANNING

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

Objective / Contents:

Pre-requisite: -

Assessment Methods:

Recommended Resources:

Teaching Staff: Assist. 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:

Recommended Resources:

Teaching Staff: Assist. 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:

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:

Recommended Resources:

Teaching Staff: Assist. Prof. Dr. Kevser ÜSTÜNDAĞ, Dr.İclal KAYA ALTAY

PLP 521 GEOGRAPHY OF URBANIZATION

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

Objective / Contents:

Pre-requisite: -

Assessment Methods:

Recommended Resources:

Teaching Staff: Prof. Dr. Erol TÜMERTEKİN, Assist. Prof. Dr. Turgay GÖKÇEN

PLP 522 HISTORY OF URBAN MANAGEMENT

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

Objective / Contents:

Pre-requisite: -

Assessment Methods:

Recommended Resources:

Teaching Staff: Doç. Dr. Adalet ALADA, Doç. Dr. Fatma ÜNSAL

PLP 523 ENVIRONMENTAL DISCOURSES AND POLICIES

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

Objective / Contents:

Pre-requisite: -

Assessment Methods:

Recommended Resources:

Teaching Staff: Yrd. Doç. Dr. Aslı ÖĞÜT ERBİL

PLP 524 TRANSPORTATION POLICIES

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

Objective / Contents:

Pre-requisite: -

Assessment Methods:

Recommended Resources:

Teaching Staff: Yrd. Doç. Dr. Kevser ÜSTÜNDAĞ

PLP 525 URBAN THEORIES

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

Objective / Contents:

Pre-requisite: -

Assessment Methods:

Recommended Resources:

Teaching Staff: Yrd. Doç. Dr. Binnur ÖKTEM ÜNSAL, Prof. Dr. John LOVERING

PLP 530 PROJECT DEVELOPMENT AND MANAGEMENT

2 hrs/week, theory, 2 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:

Recommended Resources: PMBOK. "Project Management Body of Knowledge"

PILCHER, R.," Principles of Construction Management", 1992.

Teaching Staff: Doç. Dr. Sema ERGÖNÜL

PLP 546 URBAN ECONOMICS

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

Objective / Contents:

Pre-requisite: -

Assessment Methods:

Recommended Resources:

Teaching Staff: Prof. Dr. Akin ERYOLDAŞ

PLO 542 RESEARCH TECHNIQUES IN URBAN PLANNING

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam / homework

Recommended Resources: “Sosyal Araştırma 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 / homework

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: written exam / homework

Recommended Resources: : BARNETT, J., “The Elusive City”. The Herbert Press, 1986.

DREW, R., “The City”. Penguin Books, London, 1997.

ELLIN, N., “Postmodern Urbanism”, 1996

HALL, P. and Ulrich P. (eds). “Urban Future 21”. E&FN Spon, London.

RYKWERT, J., “The Ideas of a Town”, The Anthropology of Urban Form, 1988.

Teaching Staff: Prof. Dr. Aykut KARAMAN

PLO 546 ISTANBUL AND IMMIGRATION

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam / homework

Recommended Resources:

Teaching Staff: Dr. Nuran YAVUZ

PLO 548 URBAN MORPHOLOGY

3 hrs/week, theory, 3credits, 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: written exam / homework

Recommended Resources: KARAMAN, A., “Defining Regional Identity: Conceptual Parameters of Urban Morphology”, 4th Int. Seminar on UM. University of Birmingham, 1997.

LOZANO, E.E., “Community Design and The Culture of Cities”. Cambridge University Press, 1990.

LYNCH, K., “Good City Form”, MIT Press, 1981.

NORBERG, S. C., Genins Loci. Rizzdi, 1979.

PANERAI, P., « Analyse Urbaine ». Edition Parentheses. 72 Course, Julien 13006, Marseille, 1999.

Teaching Staff: Prof. Dr. Aykut KARAMAN

PLO 549 COMPUTER AIDED PLANNING AND DESIGN

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam / homework

Recommended Resources:

Teaching Staff: Assist. Prof. Dr. Turgay GÖKÇEN

PLO 550 ISTANBUL AND GLOBALIZATION

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam / homework

Recommended Resources:

Teaching Staff: Prof. Dr. Güzin KONUK

URBAN DESIGN COURSE PROGRAM

REQUIRED COURSESS

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
PLT 503 Urban Design Theory and Principles	3	6	PLT 502 Urban Design Studio	4	8
PLO 541 Studio of Monitoring Urban Development	4	8	PLT 505 Urban Design Methods and Techniques	3	6
PLO 547 Seminar	0	4	PLO 547 Seminar	0	4
Elective Courses		12	Elective Courses		8
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
PLT 501 Economics of Real Estate	3	4	PLT 506 Environment and Behaviour	3	4
PLT 507 Urban Landscape	3	4	PLT 510 Real Estate Development and Design	3	4
PLT 509 Housing Policies	2	4	PLT 512 Istanbul: Planning and Design Issues	2	4
PLT 511 Urban Life and Visual Communication	2	4	PLT 516 Urban Projects and Urban Design	3	4
PLT 513 Urban Micro Millieu Design	3	4	PLT 518 Cultural Interpretation in Design and The Culture of Living	2	4

PLO 545 Urban Visions	2	4	PLT 520 Psychology of Colour and Form	2	4
PLO 549 Computer aided Planning and Design	2	4	PLT 522 Designing Public Space	3	4
			PLT 524 Urban Ergonomics	2	4
			PLO 542 Research Techniques in Urban Planning	2	4
			PLO 544 New Technologies in Urban Planning and Design	2	4
			PLO 546 Urban Economics	2	4
			PLO 548 Urban Morphology	2	4
			PLO 550 Istanbul and Globalization	2	4

COURSE CONTENTS

REQUIRED COURSESS

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: Assignment

Teaching Staff: Prof. Dr. Aykut KARAMAN, Prof. Dr. Güzin KONUK, Doç. Dr. Gülşen ÖZAYDIN, Yrd. Doç. Dr. Pelin GÖKGÜR, Yrd. Doç. Dr. Bilge ALPAY, Yrd. Doç. Dr. Dilek AKTÜRK

PLT 503 URBAN DESIGN THEORY AND PRINCIPLES

3 hrs/week, theory, 3 credits, 4 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: Papers and presentation

Recommended Resources: BARNETT, J., "Urban Design As Public Policy", Architectural Record Books, N.Y., 1974.

BACON, E., "Design of Cities". Thames and Hudson, London, 1967.

BROADBENT, G., "Emerging Concepts of Urban Space Design", E&FN Spon, London, 1996.

JACOBS, J., "Death and Life of Great American Cities, Random House", N:Y., 1967

LANG, J., "Urban Design: The American Experience", Van Nostrand Reinhold, N.Y., 1987.

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: Papers and presentation

Recommended Resources: KONUK, G., “Kentsel tasarım Süreci-Sürece İlişkin Yakl. Tasarım Kontrolleri”, MSÜ, 1999.

KONUK, G., “Kent/Kentsel Tasarım ve Kente Yeniden Bakmak”, MSÜ, 2002.

ROGERS, R., “Urban Renaissance, Towards Urban task Force”, 2000.

Urban Design in Planning Process, 2000

DUYUTER, J. , “Design Guidelines in American Cities”, 1999.

Teaching Staff: Prof.Dr.Güzin KONUK

PLO 541 STUDIO OF MONITORING URBAN DEVELOPMENT

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

Objective / Contents: The purpose of the studios 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 Method: Project and presentation

Recommended Resources:

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

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 Method: Attendance and discussions

Recommended Resources: SELDMAN, A., “Culture and Society”, Cambridge University Press, 1984.

ELLIN, N., “Post-Modern Urbanism”, Blackwell Publishers, oxford, 1996.

Teaching Staff: Prof. Dr. Sümer GÜREL, Öğr. Gör. Dr. Nuran YAVUZ

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 and homework

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 theoric 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: written exam and homework

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: Papers and presentation

Recommended Resources: BURKE, G., "Townscape, Penguin", 1978.

CULLAN, G., "The Concise Townscape", 1960

CLUSWY, J. , "Road Form and Townscape"

WHITEHAND, J.W.R., "The Urban Landscape Historicaşl Development and Management", Academic Press, 1981

TRANCIK, R., "Finding Lost Space", 1986.

Prof.Dr.Güzin KONUK

PLT 509 HOUSING POLICIES

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

Objective / Contents: The aim of the course is to hendle 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: written exam and homework

Recommended Resources: BACHELARD, G., "Mekanın Politikası", Kesit Yayınları, İstanbul, 1996.

LOGITO, „Bir Anatomi Dersi: Ev“, sayı 18, 1999.

KOMUT, E., „Diğerlerinin Konut Sorunları“, TOKİ, 1996.

ÖĞDÜL, H., „Konut Alanlarının İyileştirilmesinde Toplumsal Bağlam Rolü“, Doktora tezi, MSÜ, 1999.

Teaching Staff: Yrd. Doç. 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: written exam and homework

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 and homework

Recommended Resources: REFİĞ, H., "Gurbet Kuşları Filmi"

REFİĞ, H., "Gelincik Kız Filmi"

Teaching Staff: Öğr. Gör. Halit REFİG

PLT 512 ISTANBUL: PLANNING AND DESIGN ISSUES

3 hrs/week, theory, 3 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: written exam and homework

Recommended Resources:

Teaching Staff: Prof. Dr. Aykut KARAMAN

PLT 513 URBAN MICRO MILLIEU DESIGN

2 hrs/week, theory, 2 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: Paper and presentation

Recommended Resources:

Teaching Staff: Assoc. Prof. Dr.. Gülşen ÖZAYDIN

PLT 516 URBAN PROJECTS AND URBAN DESIGN

2 hrs/week, theory, 2 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: Research, paper and presentation

Recommended Resources: CASTELLS, M., “Local & Global, Strategic Plans & Metropolitan ProjECTS”, 1999.

GOSPODIM, A., “EU Cities in Competition & New Uses of Urban Design”, Journal of Urban Design, 2002.

CARMONA, M., “Stakeholder Views on Value & Urban Design”, 2002.

TEKELİ, İ., “Kentleri Dönüşüm Mekanı Olarak Düşünmek”, YTÜ Uluslar arası Dönüşüm, İstanbul, 2003.

KONUĞ, G., “Kentlerimizi Yeniden Biçimlendirmek”, 2003.

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). The 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

Teaching Staff: Öğr. Gör. Cengiz BEKTAŞ

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: written exam and homework

Recommended Resources:

Teaching Staff: Yrd. Doç. Dr. Dilek AKTÜRK

PLT 522 DESIGNING PUBLIC SPACE

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam and homework

Recommended Resources:

Teaching Staff: Yrd. Doç. Dr. Pelin GÖKGÜR

PLT 524 URBAN ERGONOMY

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam and homework

Recommended Resources:

Teaching Staff: Yrd. Doç. Dr. Bilge ULUSAY ALPAY

PLO 542 RESEARCH TECHNIQUES IN URBAN PLANNING

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam / homework

Recommended Resources: “Sosyal Araştırma 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 / homework

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: written exam / homework

Recommended Resources: : BARNETT, J., “The Elusive City”. The Herbert Press, 1986.

DREW, R., "The City". Penguin Books, London, 1997.
ELLIN, N., "Postmodern Urbanism", 1996
HALL, P. and Ulrich P. (eds). "Urban Future 21". E&FN Spon, London.
RYKWERT, J., "The Ideas of a Town", The Anthropology of Urban Form, 1988.
Teaching Staff: Prof. Dr. Aykut KARAMAN

PLO 546 ISTANBUL AND IMMIGRATION

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam / homework

Recommended Resources:

Teaching Staff: 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 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: written exam / homework

Recommended Resources: KARAMAN, A., "Defining Regional Identity: Conceptual Parameters of Urban Morphology", 4th Int. Seminar on UM. University of Birmingham, 1997.

LOZANO, E.E., "Community Design and The Culture of Cities". Cambridge University Press, 1990.

LYNCH, K., "Good City Form", MIT Press, 1981.

NORBERG, S. C., Genins Loci. Rizzdi, 1979.

PANERAI, P., « Analyse Urbaine ». Edition Parentheses. 72 Course, Julien 13006, Marseille, 1999.

Teaching Staff: Prof. Dr. Aykut KARAMAN

PLO 549 COMPUTER AIDED PLANNING AND DESIGN

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam / homework

Recommended Resources:

Teaching Staff: Assist. Prof. Dr. Turgay GÖKÇEN

PLO 550 ISTANBUL AND GLOBALIZATION

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

Objective / Contents:

Pre-requisite: -

Assessment methods: written exam / homework

Recommended Resources:

Teaching Staff: Prof. Dr. Güzin KONUK

DOCTORATE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
Elective Courses		30	Elective Courses		30
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)		30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)		30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report 3 (compulsory)		30	Thesis and thesis defend (compulsory)		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
			PLK 606	2	4

ELECTIVE COURSES

PLK 606 TARİHİ KENT PLANLAMASI

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

Objective / Contents:

Pre-requisite:

Assessment methods: homework

Recommended Resources:

Teaching Staff: Prof. Dr. İsmet OKYAY

DIVISION OF INDUSTRIAL DESIGN

Division Head: Prof. Dr. Cemil TOKA

Tel: 0212 252 1600 / 345

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, *İç Mimar*,
Doktora, MSÜ 1990, Profesör; M.S.Ü. 1991

Prof. Dr. Oğuz BAYRAKÇI, *End. Tasarımcı*
Lisans; D.G.S.A. 1977, Doktora; M.S.Ü. 1995; Yardımcı Doçent; M.S.Ü. 1988, Doçent; M.S.Ü. 1994,

Prof. Dr. Süha ERDA, *End. Tasarımcı*
Lisans; D.G.S.A, Y.Lisans; D.G.S.A. 1974, Doktora MSÜ 1993, Yardımcı Doçent; M.S.Ü. 1995,
Doçent; M.S.Ü. 2000

Yrd. Doç. Dr. Hüseyin KURTULUŞ, *End. Tasarımcı*
Lisans; MSÜ 1987, Y. Lisans; MSÜ 1992, Doktora; MSÜ 1999, Yardımcı Doçent; M.S.Ü. 1999

Yrd. Doç. Dr. Tengüz ÜNSAL, *End. Tasarımcı*
Lisans; M.S.Ü. 1987, Y. Lisans; M.S.Ü. 1991, Doktora; University of Northumbria, İngiltere,
Yardımcı Doçent; M.S.U. 2002

Yrd. Doç. Dr. Ebru GÜZELDEREN
Lisans; M.S.Ü. 1994, Y. Lisans; M.S.Ü. 1997, Doktora; MSÜ. 2004.

Yrd. Doç. Dr. Oğuz ERATAÇ
Lisans; M.S.Ü. 1987, Y. Lisans; M.S.Ü. 1997, Doktora; MSÜ. 2003.

Yrd. Doç. Dr. Meltem ÖZKARAMAN
Lisans; M.S.Ü. 1997, Y. Lisans; M.S.Ü. 1999, Doktora; MSÜ. 2005.

YARI ZAMANLI

Prof. Önder KÜÇÜKERMEN, *Endüstri Ürünleri Tasarımı Anabilim Dalı Başkanı*,
İç Mimar, Endüstriyel Tasarımcı, Doktora; D.G.S.A. 1965, Doçent; M.S.Ü. 1972, Profesör; M.S.Ü.
1977

Prof. İlhan ERHAN, *Endüstriyel Tasarımcı*,
Lisans; Kassel University of Fine Arts, Almanya 1972, Doktora; MSÜ 1978, Profesör; M.S.Ü. 1992

Prof. Dr. Murat Eriç
Y. Mimar ; DGSA 1967, Doktora ; ITÜ 1972., Profesör; 1985

Prof. Dr. Kenan MORTAN

Öğr. Gör. Kaan DERİCİOĞLU
Lisans; Ankara Üniversitesi, Dil ve Tarih Coğrafya Fak. Jeomorfoloji Böl. 1968

COURSE PROGRAM

GRADUATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
ET 500 Seminar	0	5	ET 599 Seminar	0	5
ET 591 Project	2	10	ET 592 Project	2	10

Elective Courses	15	Elective Courses	15
Total	30	Total	30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis		30
Total		30	Total		30

DOCTORATE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
Elective Courses		30	Elective Courses		30
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)		30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)		30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report 3 (compulsory)		30	Thesis and thesis defend (compulsory)		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS

ET 501 Design Theories	4	4	ET 502 Design Methodologies	2	5
ET 503 Communicational Models in Design	2	5	ET 504 Design Semiology and Product Semantics	2	5
ET 505 Ergonomics	2	5	ET 506 Anthropometrics	2	5
ET 507 Product Planning Concepts	2	5	ET 508 Product Planning Techniques	2	5
ET 509 Manufacturing Techniques-Research and Development	2	5	ET 510 Manufacturing Physics	2	5
ET 511 Interface Design Concept in the Human-Machine Rrelation	2	5	ET 512 Measurements of Interface Design	2	5
ET 513 Industrial Affairs	2	5	ET 514 Industrial Systems	2	5
ET 517 The Effects of Industrial Policies on Products in Turkey	2	5	ET 518 The Model of Cultural Changing Elements in Industrial Products	2	5
ET 519 Material Selection	2	5	ET 520 Manufacturing Methods & Techniques	2	5
ET 523 Intellectual Property Rights	2	5	ET 524 Design Property Rights	2	5
ET 529 Socioeconomics In Industrial Design	3	5	ET 528 Socio-Economic Influences in Industrial Design	3	5
ET 531 Design Management Concepts	2	5	ET 532 Design Management Techniques	2	5
ET 535 Technological Development In Design	2	5	ET 536 Design And Technology	2	5
ET 537 Research Techniques In Product Design	2	5			

COURSE CONTENTS

REQUIRED COURSESS

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 KÜÇÜKERMEN, Prof. Dr. Cemil TOKA, Prof. İlhan ERHAN, Prof Dr. Oğuz BAYRAKÇI, Prof. Dr. Süha ERDA, Assist. Prof. Dr. Hüseyin KURTULUŞ, Assist. Prof. Dr. Tengüz ÜNSAL, Assist. Prof. Dr. Oğus ERATAÇ, Assist. Prof. Dr. Ebru GÜZELDEREN, Assist. Prof. Dr. Meltem ÖZKARAMAN ŞEN

ET 591 DESIGN PROJECT

4 hrs/week, Studio, 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 and homework

Recommended Resources:

Teaching Staff: Prof. Önder KÜÇÜKERMEN, Prof. Dr. Cemil TOKA, Prof. İlhan ERHAN, Prof Dr. Oğuz BAYRAKÇI, Prof. Dr. Süha ERDA, Assist. Prof. Dr. Hüseyin KURTULUŞ, Assist. Prof. Dr. Tengüz ÜNSAL, Assist. Prof. Dr. Ebru GÜZELDEREN

ET 592 DESIGN PROJECT

4 hrs/week, Studio, 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 and homework

Recommended Resources:

Teaching Staff: Prof. Önder KÜÇÜKERMEN, Prof. Dr. Cemil TOKA, Prof. İlhan ERHAN, Prof Dr. Oğuz BAYRAKÇI, Prof. Dr. Süha ERDA, Assist. Prof. Dr. Hüseyin KURTULUŞ, Assist. Prof. Dr. Tengüz ÜNSAL, Assist. 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 KÜÇÜKERMEN, Prof. Dr. Cemil TOKA, Prof. İlhan ERHAN, Prof Dr. Oğuz BAYRAKÇI, Prof. Dr. Süha ERDA, Assist. Prof. Dr. Hüseyin KURTULUŞ, Assist. Prof. Dr. Tengüz ÜNSAL, Assist. Prof. Dr. Oğuz ERATAÇ, Assist. Prof. Dr. Ebru GÜZELDEREN, Assist. 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 and homework

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

Teaching Staff: Asssit. Prof. Dr. Hüseyin KURTULUŞ

ET 502 DESIGN METHODOLOGIES

4 hrs/week, Theory, 4 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 and homework

Recommended Resources:

Teaching Staff: Asssit. 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 and homework

Recommended Resources: BAYRAKÇI, O., “Tasarımda İletişimsel Modeller”

BARTHS, R., “Göstregebilim 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

3 hrs/week, Theory, 3 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 semiologically and semantically.

Pre-requisite: -

Assessment methods: written exam and homework

Recommended Resources: 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; phsyco-physiological and socio-cultural capacity dependant concepts and principles.

Pre-requisite: -

Assessment methods: written exam and homework

Recommended Resources: BARTHES, R., “Göstergebilim İlkeleri”, Çev., Berke Vardar ve Mehmet Rifat, Kültür Bakanlığı Yayınları: 337, Bilim Dizisi:8, Birinci Baskı, Haziran 1979.

BERELSON, B. and Steiner, G.A., “Human Behavior”, Harcourt Brace&World, 1964. P. 254.

PORTE, L. W., and ROBERTS, K.H.(eds), “Communication in Organizations”, Penguin Books Ltd. Harmondsworth, Middlesex, England, p.18, 1977.

DREYFUSS, H., “Human factors in Design”, Whitney Library of Design, New York, N.Y., 1967.

MCCORMICK, E.J.,”Human Factors Engineering”, 3rd edn., McGrawhill-Hill Inc., USA, 1976.

SINGLETON, W.T., “Man-Machine Sysytems”, Penguin Books Ltd. Armondsworth, Middlesex, England, 1974.

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 and homework

Recommended Resources: BARTHES, R., “Göstergebilim İlkeleri”, Çev., Berke Vardar ve Mehmet Rifat, Kültür Bakanlığı Yayınları: 337, Bilim Dizisi:8, Birinci Baskı, Haziran 1979.

BERELSON, B. and Steiner, G.A., “Human Behavior”, Harcourt Brace&World, P. 254, 1964.

PORTE, L. W. Porte, and Roberts, K.H.(eds), “Communication in Organizations”, Penguin Books Ltd. Harmondsworth, Middlesex, England, p.18, 1977.

DREYFUSS, H., “Human factors in Design”, Whitney Library of Design, New York, N.Y., 1967.

MCCORMICK, E.J., “Human Factors Engineering”, 3rd edn., McGrawhill-Hill Inc., USA, 1976.

SINGLETON, W.T., “Man-Machine Sysytems”, Penguin Books Ltd. Armondsworth, Middlesex, England, 1974.

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 and homework

Recommended Resources: BAYRAKÇI, O. Tasarımda İletişimsel Modeller

BUCK, A., HERRMANN, C. , LUBKOWITZ, D. Handbuch Trend Management

ERHAN, İ. Tasarımda Temel İlkeler ve Amacın Belirlenmesi

Teaching Staff: Prof. 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 and homework

Recommended Resources: BAYRAKÇI, O. Tasarımda İletişimsel Modeller

BUCK, A., HERRMANN, C. , LUBKOWITZ, D. Handbuch Trend Management

BAYAZIT, N. Endüstri Ürünlerinde ve Mimarlıkta Tasarlama Metodlarına Giriş

KARMASIN, H. Produkte alsBotschaften

Teaching Staff: Prof. 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 and homework

Recommended Resources: ERİÇ, M, YENER, N., ERSOY, H. Y., “Günümüz Konutunda Rasyonel dağıtım”, İstanbul, 50. Kelebek Yılı araştırma Ödülü, 1986.

ERİÇ, M. “Yapı Fiziği ve Malzemesi 2” Literatür yayımı, 2002.

ERİÇ, M., YENER, N., “Mobilya Tasarımı ve Ahşap Malzeme”, Orman Ürünleri Endüstri Kongresi, Trabzon, 23-25 Eylül, 1985.

ERİÇ, M., ERSOY, H.Y., Yapı Biyolojisi, Ekolojik Denge ve Yapı Malzemesi İlişkisi, Yapı, (163), 1995.

ERİÇ, M., YENER, N., “Konut İç Mekanında Mobilya Arayışı”, Yapı Dergisi, (72)1987.

Teaching Staff: Prof. Dr. Murat ERİÇ

ET 510 MANUFACTURING PHYSICS

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

Objective / Contents: The fundamental relationships of Physics and its principles. Structures and structural responses. Types of loads. Physical and mechanical properties of materials. Effect of geometry. States of stress and deformation. Stiffness and flexibility. Structural forms. The effects of tension, compression, bending and torsion. Material and technology integration and facts including heat, noise and water etc are to be examined.

Pre-requisite: -

Assessment methods: written exam and homework

Recommended Resources: ERİÇ, M, YENER, N., ERSOY, H. Y., “Günümüz Konutunda Rasyonel dağıtım”, İstanbul, 50. Kelebek Yılı araştırma Ödülü, 1986.

ERİÇ, M. “Yapı Fiziği ve Malzemesi 2” Literatür yayını, 2002.

ERİÇ, M., YENER, N., “Mobilya Tasarımı ve Ahşap Malzeme”, Orman Ürünleri Endüstri Kongresi, Trabzon, 23-25 Eylül, 1985.

ERİÇ, M., ERSOY, H.Y., Yapı Biyolojisi, Ekolojik Denge ve Yapı Malzemesi İlişkisi, Yapı, (163), 1995.

ERİÇ, M., YENER, N., “Konut İç Mekanında Mobilya Arayışı”, Yapı Dergisi, (72)1987.

Teaching Staff: Prof. Dr. Murat ERİÇ

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 and homework

Recommended Resources:

Teaching Staff: Asit. 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 and homework

Recommended Resources:

Teaching Staff: Asit. 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 and homework

Recommended Resources: KÜÇÜKERMEN, Ö., “Endüstri Tasarımı İçin Ürün Tasarımında Yaratıcılık”.

KÜÇÜKERMEN, Ö., “Endüstri Tasarımı, Ürün Tasarımında Adımlar”.

Teaching Staff: Prof. Önder KÜÇÜKERMEN

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/homework

Recommended Resources: KÜÇÜKERMEN, Ö., “Endüstri Tasarımı İçin Ürün Tasarımında Yaratıcılık”.

KÜÇÜKERMEN, Ö., “Endüstri Tasarımı, Ürün Tasarımında Adımlar”.

Teaching Staff: Prof. Dr. Önder KÜÇÜKERMEN

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 and homework

Recommended Resources:

Teaching Staff: Asist 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 and homework

Recommended Resources:

Teaching Staff: Asist Prof. Dr. Meltem ÖZKARAMAN ŞEN

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 and homework

Recommended Resources: ERİÇ, M, YENER, N., ERSOY, H. Y., “Günümüz Konutunda Rasyonel dağıtım”, İstanbul, 50. Kelebek Yılı araştırma Ödülü, 1986.

ERİÇ, M. “Yapı Fiziği ve Malzemesi 2” Literatür yayını, 2002.

ERİÇ, M., YENER, N., “Mobilya Tasarımı ve Ahşap Malzeme”, Orman Ürünleri Endüstri Kongresi, Trabzon, 23-25 Eylül, 1985.

ERİÇ, M., ERSOY, H.Y., Yapı Biyolojisi, Ekolojik Denge ve Yapı Malzemesi İlişkisi, Yapı, (163), 1995.

ERİÇ, M., YENER, N., “Konut İç Mekanında Mobilya Arayışı”, Yapı Dergisi, (72)1987.

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 and homework

Recommended Resources: ERİÇ, M, YENER, N., ERSOY, H. Y., “Günümüz Konutunda Rasyonel dağıtım”, İstanbul, 50. Kelebek Yılı araştırma Ödülü, 1986.

ERİÇ, M. “Yapı Fiziği ve Malzemesi 2” Literatür yayını, 2002.

ERİÇ, M., YENER, N., “Mobilya Tasarımı ve Ahşap Malzeme”, Orman Ürünleri Endüstri Kongresi, Trabzon, 23-25 Eylül, 1985.

ERİÇ, M., ERSOY, H.Y., Yapı Biyolojisi, Ekolojik Denge ve Yapı Malzemesi İlişkisi, Yapı, (163), 1995.

ERİÇ, M., YENER, N., “Konut İç Mekanında Mobilya Arayışı”, Yapı Dergisi, (72)1987.

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 and homework

Recommended Resources:

Teaching Staff: Öğr. Gör. Kaan DERİCİOĞLU

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 homework

Recommended Resources: DERİCİOĞLU, M. K., “Fikri Haklar”, Ders Notları, <http://www.apb.com.tr/dersler>

DERİCİOĞLU, M. K., “Tasarım Haklarının Korunması”, Ders Notları, <http://www.apb.com.tr/dersler>

BEŞİROĞLU, A., “Düşünce Ürünleri Üzerinde Haklar”

SULUK, C., “Tasarım Hukuku”

DERİCİOĞLU, M.K., “Fikri Haklar Kılavuzu”, İstanbul Sanayi Odası Yayını 2003/13.

Teaching Staff: Öğr. Gör. Kaan DERİCİOĞLU

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 and homework

Recommended Resources: KÜÇÜKERMEN, 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: uygulama/homework

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 and homework

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 as well as the administrative organizations in master's degree education.

Pre-requisite: -

Assessment methods: written exam and homework

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 and homework

Recommended Resources:

Teaching Staff: Assist. 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; techno-economic databases and effects to design attitudes.

Pre-requisite: -

Assessment methods: written exam and homework

Recommended Resources:

Teaching Staff: Assist. Prof. Dr. Oğuz ERATAÇ

ET 537 RESEARCH TECHNIQUES IN PRODUCT DESIGN

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

Objective / Contents: Quantitative and qualitative data collection techniques for Applicable and research projects in industrial product design.

Pre-requisite: -

Assessment methods: written exam and homework

Recommended Resources:

Teaching Staff: Assist. Prof. Dr. Tengüz ÜNSAL

DIVISION OF STRUCTURAL ENGINEERING

Anabilim Dalı Başkanı: Assoc. Prof. Dr. Sema ERGÖNÜL

Tel: 0212 252 1600 / 278

STRUCTURAL ENGINEERING PROGRAM

Program Sorumlusu: Assist. Prof. Dr. Fevzi DANSIK

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

Assist. Prof. Dr. Fevzi Dansık,
İnşaat Mühendisi ; YTÜ 1988, Y. İnşaat Mühendisi ; MSÜ 1991, Doktora ; Surrey Üniversitesi 1999.
Yardımcı Doçent; 2001

Assist. Prof. Dr. Meltem Şahin,
İnşaat Mühendisi ; İTÜ 1993, Y. İnşaat Mühendisi ; İTÜ 1996, Doktora ; MSÜ 2002. Yardımcı
Doçent; MSGSÜ 2006.

COURSEPROGRAM

GRADUATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
SE 500 Seminar	0	4	Elective Courses		30
Elective Courses		26			
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis		30
Total		30	Total		30

DOCTORATE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
Elective Courses		30	Elective Courses		30
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)		30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)		30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report 3 (compulsory)		30	Thesis and thesis defend (compulsory)		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
SE 503 Design, Analysis and Realization of Space Frames	3	8	SE 506 Design, Analysis and Realization of Air-Supported Membranes	3	8
SE 505 Design and Behavior of Structural Systems	3	8	SE 522 Design, Analysis and Realization of Tension Structures	3	8
SE 521 Space Structures and Their Configuration Processing	3	8	SE 523 Introduction to Earthquake Engineering	3	8
			SE 601 Theory of Shells	3	8

COURSE CONTENTS

REQUIRED COURSESS

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 staff.

Pre-requisite: -

Assessment methods: presentations

Teaching Staff: Assist. 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/homework

Recommended Resources:

Teaching Staff: Assist. 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/homework

Recommended Resources: AGUILAR, R. J. "Systems Analysis and Design"

NORRIS, C. H., Wilbur, J. B. And Utku, Ş. "Elementary Structural Analysis"

Teaching Staff: Assist. 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/homework

Recommended Resources:

Teaching Staff: Assist. 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/homework

Recommended Resources: "Bulletin of the International Association for Shell and Spacial Structures", Vol. 31 1990, n.12 April-Aug. N.102-103.

Teaching Staff : Assist. 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/homework

Recommended Resources: "Bulletin of the International Association for Shell and Spacial Structures", Vol. 31 1990, n.12 April-Aug. N.102-103.

Teaching Staff : Assist. Prof. Dr. Fevzi DANSIK

SE 523 INTRODUCTION TO EARTHQUAKE ENGINNERING

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/homework

Recommended Resources: ŞAHİN,M., "Deprem Etkilerine Karşı Geliştirilen Aktif ve Pasif İzolasyon Sistemleri". 1996, Yüksek Lisans Tezi

DANSIK, F., " Perde-Çerçeve Etkileşimli BetonarmeYüksek Yapıların Optimizasyonu Üzerine Sayısal Bir Araştırma" ,1991, Yüksek Lisans Tezi

CELEP Z., KUMBASAR, N., "Deprem Mühendisliğine Giriş"

CELEP Z., KUMBASAR, N., "Yapı Dinamiği"

Teaching Staff : Assist. Prof. Dr. Meletem ŞAHİN

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/homework

Recommended Resources:

Teaching Staff: Assist. Prof. Dr. Meltem ŞAHİN

CONSTRUCTION PROJECT MANAGEMENT PROGRAM

Program Sorumlusu : Assoc. Prof. Dr. Sema ERGÖNÜL

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,
Mimar ; ITU 1982, Y. Mimar; ODTU 1988, Doktora ; MSU 2002. Doçent; MSGSU 2006

PART TIME

Assoc. Prof. Dr.. Yalçın TEZCAN
Yüksek Mimar ; İ.T.Ü. 1960, Doktora ;I.T.U. 1969, Doçent ; I.T.U. 1981

Öğr. Gör. Niyazi GALİPOĞULLARI
Yüksek İnşaat Mühendisi I.T.U. 1968.

COURSEPROGRAM

GRADUATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
CM 501 Introduction to Project Management	3	9	Elective Courses		30
CM 500 Seminar	0	2			
Elective Courses		19			
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis		30
Total		30	Total		30

DOCTORATE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
Elective Courses	U	30	Elective Courses		30

Total	30	Total	30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)		30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)		30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report 3 (compulsory)		30	Thesis and thesis defend (compulsory)		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
CM 503 Human Resources Management in Construction	3	7	CM 506 Construction Site Organization	3	7
CM 505 Project Delivery Approaches	2	7	CM 512 Legal Aspects of Construction Contracting	3	7
CM 509 Contract Procedures	3	7	CM 516 Quality Management in Construction	3	7

COURSE CONTENTS

REQUIRED COURSESS

CM 500 SEMINAR

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

Objective / Contents: With the participation of experienced quest 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:

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: written exam / homework

Recommended Resources: PMBOK. “Project Management Body of Knowledge”

RITZ, G., “Total Construction Project Management”, 1994.

PILCHER, R., “Principles of Construction Management”, 1992.

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: written exam / homework

Recommended Resources: LOOSEMORE, M., DAINTY, A. and LINGARD, H. “Human Resource Management in Construction Projects- Strategic and Operational Approache”, 2003

Teaching Staff: Assoc. Prof. Dr. Sema ERGÖNÜL

CM 505 PROJECT DELIVERY APPROACHES IN CONSTRUCTION

2 hrs/week, Theory, 2 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/homework

Recommended Resources: RITZ, G. “Total Construction Management”, 1994.

GALİPOĞULLARI, N. (2001). “İnşaat Yönetimi”, 2001.

GALİPOĞULLARI, N. (2001). “İnşaat Yönetimi Uygulamaları”, 2001.

Teaching Staff : Niyazi GALİPOGULLARI

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/homework

Recommended Resources: RITZ, G. J. "Total Construction Project Management", 1994.

GALİPOĞULLARI, N., "İnşaat Yönetimi", 2001.

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

Teaching Staff : Niyazi GALİPOGULLARI

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, preises, rates, work and price break downs, claims, negotiations, arbitrations, changes of the conditions of the contract; designing the best fitting contracts.

Pre-requisite: -

Assessment methods: written exam/homework

Recommended Resources: FISK, E. "Construction project Administration", 2000.

CLOUD, R. H. "Construction Contracting"

Teaching Staff: Assoc. Prof. Dr. Yalçın TEZCAN

CM 512 LEGAL ASPECTS OF CONSTRUCTION CONTRACTING

3 hrs/week, Theory, 3 credits, 7 ECTS credits

Objective / Contents: National and international laws, codes and regulations affecting construction contracts. Comparative review of (Turkish) Social Security laws and regulations, "General Specifications of Public Works", "Law of Obligations" and "International Administrative Specification of Civil Works" issued by FIDIC. Legal issues concerning Contractors, Consultants and Architect/Engineering firms in Turkey. Case studies on some current contracts in national and international context.

Pre-requisite: -

Assessment methods: written exam/homework

Recommended Resources: FISK, E. "Construction Project Administration", 2000.

CLOUD, R. H. "Construction Contracting"

Teaching Staff: Assoc. Prof. Dr. Yalçın TEZCAN

CM 516 QUALITY MANAGEMENT IN CONSTRUCTION

3 hrs/week, Theory, 3 credits, 7 ECTS credits

Objective / Contents: The processes required primarily to ensure that the project will satisfy the needs for which it was undertaken. Quality planning, quality assurance and quality control. Review of relevant procedures and techniques such as, cost/ benefit analysis, quality inspections, Pareto diagrams, statistical sampling, trend analysis etc. On-site, off-site and in-situ quality control in construction.

Pre-requisite: -

Assessment methods: written exam/homework

Recommended Resources: ESİN, A. ISO 9001 Işığında Hizmette Toplam Kalite

NEE, P. A. "ISO 9000 in Construction", 1996.

HRADESKY, J. "Total Quality Management", 1995.

OAKLAND, S. "Total Quality management: the route to improving performance".

Teaching Staff : Assoc. Prof. Dr. Sema ERGÖNÜL

DIVISION OF MATHEMATICS

Division Head: Prof. Dr. Fatma SENYÜCEL

Tel: 0212 236 6936 / 127

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

Lisans; İstanbul Üniversitesi 1973, Doktora; Yıldız Teknik Üniversitesi 1983, Yrd. Doç.; Mimar Sinan Üniversitesi 1984, Doç; Mimar Sinan Üniversitesi 1996, Prof; Mimar Sinan Üniversitesi 2002.

Prof. Dr. Mahammad TAGHİYEV

Lisans, Moskova Devlet Üniversitesi, 1973; Doktora, Moskova Devlet Üniversitesi, 1981; Doçent, Moskova Devlet Üniversitesi, 1989; Profesör, Moskova Devlet Üniversitesi, 1992.

Assist. Prof. Dr. Ahmet BAKKALOĞLU

Lisans; Boğaziçi Üniversitesi, Yüksek Lisans; İ.T.Ü., 1994, Doktora; İ.T.Ü., 1994, Yrd. Doç.; Mimar Sinan Üniversitesi 1996.

Assist. Prof. Dr. Sezai MAKAS

Lisans; Mimar Sinan Üniversitesi, 1989, Yüksek Lisans; Mimar Sinan Üniversitesi, 1992, Doktora; Mimar Sinan Üniversitesi, 1996, Yrd. Doç.; Mimar Sinan Üniversitesi 1996.

Assist. Prof. Dr. Nebi ÖNDER

Lisans; İ.T.Ü., 1982, Yüksek Lisans; İ.T.Ü., 1985, Yüksek Lisans; University of Warwick Mathematics Inst. 1990, Doktora; İ.T.Ü., 1997, Yrd. Doç.; Mimar Sinan Üniversitesi 1999.

Assist. Prof. Dr. Nil Dikmen KOFOĞLU

Lisans, Marmara Üniversitesi, 1986; Yüksek Lisans, Marmara Üniversitesi, 1989; Doktora; İstanbul Teknik Üniversitesi, 1997, Yrd. Doç., Mimar Sinan Üniversitesi, 1998.

Assist. Prof. Dr. Didem ÖZTÜRK

Lisans, İstanbul Üniversitesi, 1995; Yüksek Lisans, Mimar Sinan Üniversitesi, 1998; Doktora, Mimar Sinan Üniversitesi, 2002, Yrd. Doç.; Mimar Sinan Üniversitesi, 2004.

Assist. Prof. Dr. Gülay İLONA TELSİZ

Lisans, Mimar Sinan Üniversitesi, 1997; Yüksek Lisans, Mimar Sinan Üniversitesi, 1999; Doktora, Mimar Sinan Üniversitesi, 2004, Yrd. Doç.; Mimar Sinan Üniversitesi, 2004.

PART TIME

Assoc. Prof. Dr. K. İlhan İKEDA

Lisans; ODTÜ 1989, Doktora; Princeton Uni. 1993, Doç.; Bilgi Üniversitesi 2002.

COURSEPROGRAM

GRADUATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
MA 585 Seminar	0	6	MA 585 Seminar	0	6
Elective Courses		24	Elective Courses		24
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis		30
Total		30	Total		30

DOCTORATE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
Elective Courses	U	30	Elective Courses		30
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)	U	30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)	U	30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)	3	30	Thesis and thesis defend (compulsory)		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
MA 511 Real Analysis I	3	8	MA 515 Complex Analysis I	3	8
MA 521 Functional Analysis	3	8	MA 532 Algebra II	3	3
MA 531 Algebra I	3	6	MA 566 NonLinear Programming	3	8
MA 545 Theory of Surfaces	3	8	MA 622 Theory of Extremal Problems	3	8
MA 631 Field Extensions and Galois Theory	3	8	MA 656 Exterior Differential Forms And Applications	3	8
MA 635 Lie Groups And Lie Algebras	3	8			
MA 637 Algebraic Geometry					

COURSE CONTENTS

REQUIRED COURSESS

MA 580 SEMINAR

3 hrs/week, non-credit, 6 ECTS credits

Pre-requisite: -

Assessment methods: presentations

Recommended Resources: WBLEN, O., "Invariants of Guadratic Differential Forms"

EISENHART, L.P., "Non-Riemannian Geometry"

RUSE, H.S., Walker, A.G. & Willmore, T.J., "Harmonic Spaces"

Teaching Staff: Assist. Prof. Dr. Nebi ÖNDER, Assist. Prof. Dr. Ahmet BAKKALOĞLU, Assist. 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-Nicodyn Theorem; Fubini's Theorem

Pre-requisite: -

Assessment methods: examination

Recommended Resources: KOLMOGOROV, A.N. and FONUIN, S.V. "Introductory Real Analysis", prentice-Hall New York, 1970
Mc SHANE, E.J. "Integration", Princeton Univ. Pres
LANG, S. "Real Analysis", Addison-Wesley Pub. Comp Inc, 1983
Teaching Staff: Prof. Dr. Mahammad TAGHIYEV

MA 515

3 hrs/week, Theory, 3 credits, 8 ECTS credits

Objective / Contents: Complex plane and the topology of \mathbb{C} ; Differential and integral calculus of complex functions; Theory of power series; Abel's theorem; Local properties of analytic functions; Power series expansions; The Taylor, the Laurent series; The calculus of residues and applications; The general form of Cauch's theorem; An introduction to analytic theory of differential equations of 2nd order .

Pre-requisite: -

Assessment methods: written exam and homework

Recommended Resources: L. V. AHLFORS *Complex Analysis 3rd Edition* , Mccraw-Hill Book Company, New York 1978

Teaching Staff: Prof. Dr. Mahammad TAGHIYEV

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 and homework

Recommended Resources: N. Dunford and J.T. Schwartz *Linear Operators*. New York : Interscience/Wiley 1958

K. Yosida *Functional Analysis* . Springer Werlag 1974

Teaching Staff: Prof. Dr. Mahammad TAGHIYEV

MA 531 ALGEBRA I

3 hrs/week, Theory, 3 credits, 8 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 and homework

Recommended Resources: LEDERMANN, W and WEIR, A.J. "Introduction to Group Theory", Addison Wesley Longman, England, 1996

LANG, S. "Algebra", Addison Wesley, USA, 1997.

ALLENBEY, RBJT, "An introduction to Abstract Algebra", Chapman and Hall, New York, 1991

Dersi Veren: Assist. Prof. Dr. Didem ÖZTÜRK

MA 532 ALGEBRA II

3 hrs/week, Theory, 3 credits, 8 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 and homework

Recommended Resources: LEDERMANN, W and WEIR, A.J. "Introduction to Group Theory", Addison Wesley Longman, England, 1996

LANG, S. "Algebra", Addison Wesley, USA, 1997.

ALLENBEY, RBJT, "An introduction to Abstract Algebra", Chapman and Hall, New York, 1991
Teaching Staff: Assist. 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, Ruled surfaces, Minimal surfaces.

Pre-requisite: -

Assessment methods: written exam and homework

Recommended Resources: Erwin Kreyszig *Differential Geometry*, 1991

D.J. Struik *Classical Differential Geometry*, 1961

C.E. Weatherburn *Differential Geometry of Three Dimensions*, 1930

Teaching Staff: Assist. 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 and homework

Recommended Resources: Hans Paul Kunzi, Werner Oettci, Frank Levin, Non Linear Programming, Toronto, London

Molchters Bazarac, Hanif D. Sheravi, Non Linear Programming

Teaching Staff: Assist. Prof. Dr. Sezai MAKAS

MA 622 THEORY OF EXTREMAL 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 and homework

Recommended Resources: A.D. Ioffe and V.M. Tikhomirov *Theory of Extremal Problems*. North Holland Amsterdam. 1979

V.M. Tikhomirov *Fundamental Principles of the Extremal Problems*. John Wiley & Sons. Toronto, NY 1986

Teaching Staff: Prof. Dr. Mahammad TAGHIYEV

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 and homework

Recommended Resources: LEDERMANN, W and WEIR, A.J. "Introduction to Group Theory", Addison Wesley Longman, England, 1996

LANG, S. "Algebra", Addison Wesley, USA, 1997.

ALLENBEY, RBJT, "An introduction to Abstract Algebra", Chapman and Hall, New York, 1991

Teaching Staff: Assist. 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 and homework

Recommended Resources: VARADARAJAN *Lie Groups Lie Algebras and Their Representations*, Springer-Verlag 1984

Teaching Staff: Assoc. Prof. Dr. K. İlhan 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 and homework

Recommended Resources: Mc Donald *Algebraic Geometry: Introduction to the Language of Schemes*. W.A. Benjamin 1968

Teaching Staff: Assoc. Prof. Dr. K. İlhan 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 and homework

Recommended Resources: H. WEINTRAUB, S. "Differential Forms", Louisiana, 1997

SCHUTZ, B. "Geometrical Methods of mathematical Physics", Cambridge University, 1980

FLANDERS, H. "Differential Forms with Applications to the Physical Sciences", London, 1963

WESTENHOLZ, C. V. "Differential Forms in Mathematical Physics", Oxford, 1981

EDELEN, G.B.D. "Applied Exterior Calculus" Pennsylvania, 1984

Teaching Staff: Assist. Prof. Dr. Ahmet BAKKALOĞLU

DIVISION OF STATISTICS

Division Head: Prof. Dr. Nalan CİNEMRE

Tel: 0212 236 6936 / 162

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

Lisans; ODTÜ 1979, Yüksek Lisans; Çukurova Üniversitesi 1983, Doktora; Çukurova Üniversitesi 1985, Yrd. Doç; Çukurova Üniversitesi 1988, Doçent; Mimar Sinan Üniversitesi 1992, Profesör; Mimar Sinan Üniversitesi 1998.

Prof. Dr. Gülay KIROĞLU

Lisans; Hacettepe Üniversitesi, 1985, Yüksek Lisans; Hacettepe Üniversitesi, 1987, Doktora; Hacettepe Üniversitesi, 1990, Yrd. Doç; Mimar Sinan Üniversitesi, 1991, Doçent; Mimar Sinan Üniversitesi, 1996, Prof; Mimar Sinan Üniversitesi, 2002.

Prof. Dr. Aydın ERAR

Lisans; Hacettepe Üniversitesi, 1974; Doktora: Hacettepe Üniversitesi, 1982; Yrd. Doç; Hacettepe Üniversitesi, 1986; Doçent; Hacettepe Üniversitesi, 1989; Prof.: MSGSÜ, 2005.

Assist. Prof. Dr. Füsun DERİŞ

Lisans ; Mimar Sinan Üniversitesi, 1988, Yüksek Lisans; İstanbul Üniversitesi, 1991, Doktora; Mimar Sinan Üniversitesi, 1996, Yrd. Doç; Mimar Sinan Üniversitesi, 1998.

Assist. Prof. Dr. Meral YAY

Lisans; Mimar Sinan Üniversitesi, 1994, Yüksek Lisans; Mimar Sinan Üniversitesi, 1998, Doktora; Marmara Üniversitesi Ekonometri Bölümü, 2003, Yrd. Doç; Mimar Sinan Üniversitesi, 2004.

Assist. Prof. Dr. Levend DURANSOY

Lisans; İstanbul Üniversitesi, 1983, Y.Lisans; İstanbul Üniversitesi, 1990, Doktora; Mimar Sinan Üniversitesi, 1993, Yrd. Doç; Mimar Sinan Üniversitesi, 1994.

Assist. Prof. Dr. Funda SEZGİN

Lisans; İstanbul Üniversitesi, 1989, Yüksek Lisans; İstanbul Üniversitesi, 1992, Doktora; Marmara Üniversitesi Ekonometri Bölümü, 1998, Yrd. Doç; MSGSÜ, 2000.

PART TIME

Prof. Dr. Fatma SENYÜCEL

Lisans; İstanbul Üniversitesi 1973, Doktora; Yıldız Teknik Üniversitesi 1983, Yrd. Doç.; Mimar Sinan Üniversitesi 1984, Doç; Mimar Sinan Üniversitesi 1996, Prof; Mimar Sinan Üniversitesi 2002.

GRADUATE COURSE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
IS 500 Seminar	0	4	IS 514 Time Series Analysis	3	9
IS 513 Multivariate Analysis Techniques	3	4	IS 516 Econometric Modelling	3	9
IS 521 Regression Theory and Methods	3	4	Elective Courses		12
Elective Courses		18			
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis		30
Total		30	Total		30

GRADUATEELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
IS 515 Market Research	2	3	IS 519 Operation research Applications	3	4
IS 517 Differential Equations	2	2	IS 525 Advanced Probability Theory	2	2
IS 519 Operation research Applications	3	4	IS 527 Statistical Quality Control	2	3
IS 523 Sampling Theory and Methods	3	4	IS 529 Insurance Mathematics	3	4
IS 531 Computer Applications in Econometry	2	2			
IS 533 Data Analysis	2	2			

DOCTORATE COURSE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
IS 613 Advanced Mathematical Statistics	3	4	Elective Courses		30
IS 619 Applications Of Multivariate Analysis	2	2			
IS 621 Linear and Nonlinear Statistical Models	3	4			

Elective Courses	20	
Total	30	

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Qualifying exam report (compulsory)		30	Thesis proposal report (compulsory)		30
Total		30	Total		30

5. SEMESTRE	MSGSU	ECTS	6. SEMESTRE	MSGSU	ECTS
Thesis progress report 1 (compulsory)		30	Thesis progress report 2 (compulsory)		30
Total		30	Total		30

7. SEMESTRE	MSGSU	ECTS	8. SEMESTRE	MSGSU	ECTS
Thesis progress report 3 (compulsory)		30	Thesis and thesis defend (compulsory)		30
Total		30	Total		30

DOCTORATE ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
IS 611 Multiobjective Programming	2	3	IS 612 Forecasting Techniques	3	3
IS 615 Nonparametric Statistics	2	4	IS 614 Optimization	2	3
IS 617 Biostatistics	2	3	IS 615 Nonparametric Statistics	2	4
IS 623 Statistical Decision Making	2	3	IS 623 Statistical Decision Making	2	3
IS 625 Statistical Experimental Design	3	3	IS 625 Statistical Experimental Design	3	3
			IS 627 Alternative Regression Methods	3	4
			IS 628 Bayesian Statistics Methods	2	4

COURSE CONTENTS

GRADUATE REQUIRED COURSE

IS 500 SEMINAR

2 hrs/week, non-credit, 4 ECTS credits

Objective / Contents:

Pre-requisite: -

Assessment methods:

Recommendations:

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: homework and presentations

Recommended Resources: TABACHNICK, B.G., FIDELL, L.S., Using Multivariate Statistics, Allyn and Bacon, 2001

KENDALL, M.G., Multivariate Analysis, London, 1975

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 and homework

Recommended Resources: J. D. Cryer, Time Series Analysis, Pws Publishers Duxbury Press, 1986

W. Enders, Applied Econometric Time Series, John Wiley & Sons, 1995.

Pankratz, Forecasting With Dynamic Regression Models, John Wiley & Sons, 1991.

C. Chatfield, The Analysis Of Time Series: An Introduction, Chapman & Hall, 1989.

Akgül, Zaman Serilerinin Analizi Ve Arima Modelleri, Der Yayınları, 2003.

Teaching Staff: Assist. Prof. Dr. Füsün DERİŞ

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 and homework

Recommended Resources: Akın Fahamet, Ekonometri, Ekin Yayınevi, Bursa, 2002.

Gujarati Damador, Çev. Şenesen Ümit ve Şenesen Günlük Gülay, Temel Ekonometri, Literatür Yayıncılık, 1999.

Gürüş Selahattin, Ekonometri Temel Kavramlar, Der Yayınları, İstanbul, 2000.

Genceli Mehmet, Ekonometride İstatistik İlkeler, İkinci Basım, Filiz Kitabevi, İstanbul, 2001.

Dersi Veren: Assist. Prof. Dr. Funda SEZGİN

Teaching Staff: Assist. Prof. Dr. Funda SEZGİN

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 and homework

Recommended Resources: J. O. Rawlings, Applied Regression Analysis: A Research Tool, Wadsworth &

Brooks, 1988.

Graybill, F., Theory and Application in Linear Models, Duxbury Press, 1976.

Teaching Staff: Prof. Dr. Aydın ERAR

GRADUATEELECTIVE COURSES

IS 515 MARKET RESEARCH

3 hrs/week, Theory, 2credits, 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 and homework

Recommended Resources: Kurtuluş, K., Pazarlama Araştırmaları, İ.Ü İşletme İktisadı Enstitüsü Yayın No:160, 1996.

Yükselen, C., Pazarlama Araştırmaları, Detay Yayınları, 2003.

Neyzi, N., Pazarlama ve Dağıtım Araştırmaları:Türkiye'deki Uygulamalar, Peva Yayınları, 1990.

Tull, D.S. &Hawkins, D. I., Marketing Research-Measurement&Method-, Maxwell Macmillan Int. Editions, 1990.

Malhotra N K., Marketing Research, An Applied Orientation, Prentice Hall, New Jersey, 1999.

Baş, T., Anket, Seçkin Yayıncılık, Ankara, 2001.

Teaching Staff: Assist. Prof. Dr. Füsün DERİŞ

IS 517 DIFFERENTIAL EQUATIONS

3 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 and homework

Recommended Resources: Ross,S.L., Differential Equations

Boyce-Di Prima,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 theoretic background about quantitative methods in business, operations research, management science.

Pre-requisite: -

Assessment methods: written exam and homework

Recommended Resources: Cinemre Nalan. Yöneylem Araştırması. İkinci Baskı, İstanbul: Beta Basım Yayım, 2004.

Cinemre Nalan. Doğrusal Programlama. İkinci Baskı, İstanbul: Beta Basım Yayım, 2004.

Aronson Jay E., Stanley Zionts. Operations Research Methods Models and Applications. Austin: The University of Texas, 1998.

Hillier, S. Frederic ve J. G. Lieberman. Operations Research. San Francisco: Holden Day, 1974.

Taha, A. Hamdy. Operation Research An Introduction. Second Edition. New York: Macmillian Publishing Co.,

1976.

Wagner, M. Harvey. Principles of Management Science. Englewood Cliffs New Jersey: Prentice Hall, 1970.

Winston, L. Wayne. Operations Research Applications and Algorithms. Second Edition, Boston: PWS Pub. Co., 1991.

Teaching Staff: Prof.Dr. Nalan CİNEMRE

IS 523 SAMPLING THEORY AND METHODS

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

Objective / Contents: This course aims to provide theoretic background about sampling methods in applied research.

Pre-requisite: -

Assessment methods: written exam and homework

Recommended Resources: Orhunbilge Neyran, Örnekleme Yöntemleri ve Hipotez Testleri, İstanbul, Avcıol Basım Yayın, 1997

Tryfos Peter, Sampling Methods for Applied Research, John Wiley and Sons, Canada, 1996

Yamane Taro, Örnekleme Yöntemleri, Çeviri, İstanbul, 2001

Yoğurtçugil, M. Kemal, Örnekleme- Yöntemler Uygulama, İstanbul, 1976

Teaching Staff: Assist. Prof. Dr. Meral YAY

IS 525 ADVANCED PROBABILITY THEORY

3 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 and homework

Recommended Resources: LARSON, H.J. (1974) Introduction to Probability and Statistical Inference, Second Ed., Wiley .

AKDENİZ, F. (2002) Olasılık ve İstatistik, Bali Yayın ve Dağıtım

ROSS, S. (2004), Probability Models Dersi Veren: Prof. Dr. Gülay KIROĞLU

Teaching Staff: Prof. Dr. Gülay KIROĞLU

IS 527 STATISTICAL QUALITY CONTROL

3 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 and homework

Recommended Resources: Montgomery, D.C., Introduction to Statistical Quality Control, John Wiley&Sons, USA, 2001.

Grant, E. L., Leavenworth R. S., Statistical Quality Control, McGraw-Hill International Editions, Singapore, 1988.

Baskan Ş., İstatistiksel Kalite Kontrolü, Ege Üniversitesi Fen Fakültesi Yayınları, İzmir, 1997.

Gözlü, S. , Endüstriyel Kalite Kontrolü, İstanbul Teknik Üniversitesi Yayınları, İstanbul, 1990.

Teaching Staff: Assist. Prof. Dr. Füsun DERİŞ

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 and homework

Recommended Resources: MORALI, N., Hayat sigortaları için aktüeryal teknikler, genç sigortacılar derneği yayınları, İstanbul, 1997.

URAL, KENAN, Yaşam Sigortalarının Aktüeryel Prensipleri, Aktüerler Derneği Yayını, İstanbul, 1994.

LARSON, R.E., Life Insurance Mathematics, John Wiley&Sons, Inc, London, 1964.

Teaching Staff: Assist. Prof. Dr. Levend DURANSOY

IS 531

3 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 and homework

Recommended Resources: Akgül Aziz, İstatistiksel Analiz Teknikleri SPSS Uygulamaları, Emek Basımevi, Ankara, 2003.

Hill Carter,Using Eviews For Undergraduate Econometrics, John Wiley&Sons New York ,2001.

Güriş Selahattin, Ekonometri Temel Kavramlar, Der Yayınları, İstanbul, 2000.

Gujarati Damador, Çev. Şenesen Ümit ve Şenesen Günlük Gülay,Temel Ekonometri, Literatür Yayıncılık,1999.

Teaching Staff: Assist. Prof. Dr. Funda SEZGİN

IS 533 DATA ANALYSIS

3 hrs/week, Theory, 2credits, 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 and homework

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

Cox D.R. and Snell E.J. Applied Statistics: Principles and Examples, Chapman and Hall, 1989.

Chatfield C., Problem Solving: A Statistician's Guide, Chapman and Hall, 1995.

Teaching Staff: Prof. Dr. Aydın ERAR

DOCTORATE REQUIRED COURSESS

IS 613 ADVANCED MATHEMATICAL STATISTICS

2 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 and homework

Recommended Resources: W. Enders, Applied Econometric Time Series, John Wiley & Sons, 1995.

A. Pankratz, Forecasting With Dynamic Regression Models, John Wiley & Sons, 1991.

P. H. Franses, Time Series Models For Business And Economic Forecasting, Cambridge University Press, 1998.

R. Pindyck, D. Rubinfeld, Econometric Models And Economic Forecasts, McGraw-Hill Company, 1991

Teaching Staff: Prof. Dr. Aydın ERAR

IS 619

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 and homework

Recommended Resources: TABACHNICK, B.G., FIDELL, L.S., Using Multivariate Statistics, Allyn and Bacon, 2001

JOHNSON, A.R., WICHERN, D.W., Applied Multivariate Statistical Analysis, Prentice Hall, 2002

Teaching Staff: Prof. Dr. Gülay KIROĞLU

IS 621 LINEAR AND NONLINEAR STATISTICAL MODELS

2 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 and homework

Recommended Resources: CİNEMRE, N., Varyans Analizi , Yayınlanmamış Ders Notu

ÇÖMLEKÇİ, N., Deney tasarımı İlke ve Teknikleri, Alfa Yayınevi, İstanbul, 2003.

Searle S. R., Linear Models, New York: John Wiley and Sons, Inc., 1971.

Neter John, Wasserman. Applied Linear Statistical Models. Illinois: Richard D. Irvin Inc., 1974.

Cinemre Nalan, Doğrusal Modellere Giriş, Yayınlanmamış Ders Notu.

Teaching Staff: Prof. Dr. Nalan CİNEMRE

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 and homework

Recommended Resources: Bierman, H., Bonini, C. P. and Hauman, W. H., Quantitative Analysis for Business Decisions, Eighth Edition, Boston: Irwin Homewood, 1991.

Cinemre, Nalan, Yöneylem Araştırması, İkinci Baskı, İstanbul: Beta Basım Yayım Dağıtım, 2004.

Ignizio, J. P., Goal Programming and Extensions, Second Edition, Massachusetts: Lexington Books, 1979.

Teaching Staff: Prof. Dr. Nalan CİNEMRE

IS 612 FORECASTING TECHNIQUES

2 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 and homework

Recommended Resources: W. Enders, Applied Econometric Time Series, John Wiley & Sons, 1995.

A. Pankratz, Forecasting With Dynamic Regression Models, John Wiley & Sons, 1991.

P. H. Franses, Time Series Models For Business And Economic Forecasting, Cambridge University Press, 1998.

R. Pindyck, D. Rubinfeld, Econometric Models And Economic Forecasts, McGraw-Hill Company, 1991

Teaching Staff: Assist. Prof. Dr. Füsün DERİŞ

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 and homework

Recommended Resources: Cinemre Nalan. Yöneylem Araştırması. İkinci Baskı, İstanbul: Beta Basım Yayım, 2004.

Bazara M. S., Shefty C. M.. Nonlinear Programming Theory and Algorithms, New York: John Wiley and Sons. Inc., 1979.

Himmelblau David M.. Applied Nonlinear Programming, New York: MCGraw-Hill Book Company, 1972.

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 and homework

Recommended Resources: GIBBSON, J.D. and CHAKRABORTI, S.(1992) Nonparametric Statistical Inference, New York,

WAND, M.P. and JONES, M.C. (1995) Kernel Smoothing, Chapman&Hall, London

Teaching Staff: Prof. Dr. Gülay KIROĞLU

IS 617 BIOSTATISTICS

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

Objective / Contents: This course aims to provide theoretic background about biostatistical methods in applied research.

Pre-requisite: -

Assessment methods: Written exam and homework

Recommended Resources: Akgül Aziz, Tıbbi Araştırmalarda İstatistiksel Analiz Teknikleri, Ankara, 2003

Özdamar Kazım, SPSS İle Biyoistatistik, Eskişehir, 2001

Şenocak Mustafa, Biyoistatistik, İstanbul, 1998

Teaching Staff: Assist. Prof. Dr. Meral YAY

IS 623 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 and homework

Recommended Resources: Searle S. R.. Linear Models, New York: John Wiley and Sons, Inc., 1971.

Neter John, Wasserman. Applied Linear Statistical Models. Illinois: Richard D. Irvin Inc., 1974.

Cinemre Nalan. Doğrusal Modeller Giriş, Yayınlanmamış Ders Notu.

Berger James O.. Statistical Decision Theory and Bayesian Analysis, New York: Springer Verlag, 1993. Dersi Teaching Staff: Prof. Dr. Nalan CİNEMRE

IS 625 STATISTICAL EXPERIMENTAL DESIGN

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

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

Pre-requisite: -

Assessment methods: Written exam and homework

Recommended Resources: Gunter C. William. Analysis of Variance, New York: Prentice-Hall Inc., 1964.

Çömlekçi Necla. Deney Tasarımı İlke ve Teknikleri, İstanbul: Alfa Basım Yayım, 2003.

Teaching Staff: Prof. Dr. Nalan CİNEMRE

IS 627 ALTERNATIVE REGRESSION METHODS

2 hrs/week, Theory, 3 credits, 4 ECTS credits

Objective / Contents: In this course, alternative regression methods as follows are given: modelling, least absolute deviations regression, robust regression, nonparametric regression, bayesian regression, ridge and principal component regression, polynomial regression, calibration problem in regression.

Pre-requisite: -

Assessment methods: Written exam and homework

Recommended Resources: D. Birkes, Y. Dodge, Alternative Methods of Regression, John Wiley and Sons, 1993.

F.E. Harrell, Regression Modeling Strategies, Springer, 2001.

Teaching Staff: Prof. Dr. Aydın 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 and homework

Recommended Resources: Gürsakal Necmi, Bayesgil İstatistik, Uludağ Üniversitesi Güçlendirme Vakfı, Yayın no:68, Bursa, 1992.

Lee P.M., Bayesian Statistics, Oxford, 1989.

Press S.J., Bayesian Statistics: Principles, Models and Applications, John Wiley & Sons, New York, 1989.

Zellner Arnold, Introduction to Bayesian Inference in Econometrics, John Wiley & Sons, New York, 1985.

Teaching Staff: Yrd. Doç. Dr. Funda SEZGİN

DIVISION OF PHYSICS (2007-2008 Eğitim-Öğretim yılında bu program açılmamaktadır)

Division Head: Prof. Dr. Ender Aktulga

Tel: 0212 236 6936 / 119

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. The department graduated one student from this program until now. One another student is still working on her thesis. Others left or could not finished the program.

TEACHING STAFF

FULL TIME

Prof. Dr. Bilgin AKDEMİR

Lisans, İstanbul Üniversitesi, 1966; Doktora, İstanbul Üniversitesi, 1973; Doçent , İstanbul Üniversitesi, 1982; Professor, Mimar Sinan Üniversitesi, 1989.

Prof. Dr. Ender AKTULGA (Anabilim Dalı Başkanı)

Lisans, İstanbul Üniversitesi, 1970; Doktora, İstanbul Üniversitesi, 1983; Doçent , Mimar Sinan Üniversitesi, 1993; Professor, Mimar Sinan Üniversitesi, 1999.

Assist. Prof. Dr. Güzin SEVİN

Lisans, İstanbul Üniversitesi, 1970; Yüksek Lisans, İstanbul Üniversitesi, 1979; Doktora, İstanbul Üniversitesi, 1985.

Assist. Prof. Dr. Meriç BAKİLER

Lisans, İstanbul Üniversitesi, 1984; Yüksek Lisans, İstanbul Üniversitesi, 1987; Doktora, İstanbul Üniversitesi, 1996.

GRADUATE COURSE PROGRAM

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
FIZ 500 Seminar	0	4	Elective Courses		30
Elective Courses		26			
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Thesis progress report (compulsory)		30	Thesis		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE			MSGSU	ECTS	2. SEMESTRE			MSGSU	ECTS
FIZ 507	Molecular Vibrations	3	3	8	FIZ 506	Measurement Techniques in Physics	3	8	
FIZ 509	Computing Focused on Mathematics	3	3	8	FIZ 508	Spectroscopy	3	8	
FIZ 511	Structure of Solids	3	3	8	FIZ 510	Programming Focused on Mathematics	3	8	
					FIZ 512	Electronics of Solids	3	8	

GRADUATE COURSES

REQUIRED COURSESS

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 + uygulama, 3 credits, 8 ECTS credits

Objective / Contents: Current, voltage, electrostatic charge, temperature, pressure, force, time, frequency, puls width, phase measurement techniques.

Pre-requisite: -

Assessment methods: examination

Recommended Resources: KEITHLEY. "Low Level Measurements"

MALMSTADT, Enke, Crouch and Horlick. "Optimization of Electronic Measurements"

Teaching Staff: Prof. Dr. Bilgin AKDEMİR

FIZ 507 MOLECULAR VIBRATIONS

3 hrs/week, Theory+seminar, 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: examination

Recommended Resources: WOODWARD, L.A. "Introduction to the Theory of Molecular Vibrations and Vibrational Spectroscopy"

WILSON, B. "Molecular Vibrations"

Teaching Staff: Assist. Prof. Dr. Meriç BAKİLER

FIZ 508 SPECTROSCOPY

3 hrs/week, Theory+seminar, 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: Atom ve Molekül Fiziği, Moleküler Titreşimler

Assessment methods: examination

Recommended Resources: BANWELL, C.N. “Fundamentals of Molecular Spectroscopy”

CLIANG, R. “Basic Principles of Spectroscopy”

Teaching Staff: Assist. Prof. Dr. Meriç BAKİLER

FIZ 509 COMPUTING FOCUSED 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: examination

Recommended Resources: EXCEL, Brian Underdahl, (çeviri), Sistem

Microsoft Excel, help, Microsoft

Teaching Staff: Prof. Dr. Ender AKTULGA

FIZ 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: examination

Recommended Resources: Microsoft Excel, Help

AKTULGA, E. “Excel Programlama”

YAKOWITZ&Szidarovszky, “An Introduction to Numerical Computations”

ROMAN, S. & O'Reilly. “Writing Excel Macros”.

Teaching Staff: Prof. Dr. Ender AKTULGA

FIZ 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: examination

Recommended Resources: OMAR, A. “Elementary Solid State Physics”, Addison Wesley

HOOK and Hall. “Solid State Physics”, Wiley

HOOK and Hall (Çeviri). “Kıta Hal Fiziği”, Literatür

KITTEL (çeviri). “Kıta Hal Fiziğine Giriş”, Güven

Teaching Staff: Prof. Dr. Ender AKTULGA

FIZ 512 / ELECTRONICS OF SOLIDS

3 saat/hafta, Teori, 3 kredi, 8 ECTS kredisi

Amaç / İçerik: Energy bands in solids, Semiconductors, Dielectric and optical properties of solids, Magnetic properties of solids.

Ön koşul: -

Değerlendirme Yöntemleri: examination

Önerilen Kaynak Listesi: OMAR, A. “Elementary Solid State Physics”, Addison Wesley
HOOK and Hall. “Solid State Physics”, Wiley
HOOK and Hall (Çeviri). “Kati Hal Fiziği”, Literatür
KITTEL (çeviri). “Kati Hal Fiziğine Giriş”, Güven
Dersi Veren: Prof. Dr. Ender AKTULGA

DIVISION OF COMPUTER-AIDED ART AND DESIGN

Division Head: Prof. Dr. İbrahim Ataç

Tel: 0212 252 1600 / 280

TEACHING STAFF

FULL TIME

Prof. Dr. İbrahim ATAÇ

Lisans; İ.T.Ü. 1975, Y. Mühendis; Viyana Teknik Üniversitesi. 1977. Doçent; 1994, Profesör; 2000

Prof. Süleyman BELEN

Lisans; DGSA. 1982, Doçent; 1995, Profesör;

Assoc. Prof. Dr. Salih OFLUOĞLU

Lisans; İ.T.Ü. 1991; Doçent;

Assist. Prof. Dr. M. Turgay Gökçen

Lisans; İ.Ü. 1978; Doktora: İ.Ü Kentsel Coğrafya, 1994; Doktora;..., Yardımcı Doçent; M.S.Ü. 2002.

Assist. Prof. Dr. İrfan AYDIN

Lisans; DGSA; Yardımcı Doçent; M.S.Ü.1995

PART TIME

Prof. Dr. Mitat UYSAL

Assist. Prof. Dr. A.Erdem Erbaş

Lisans; M.S.Ü.1993, Y.Lisans; M.S.Ü. 1995; Doktora; M.S.Ü. 2000. Yardımcı Doçent; M.S.Ü.2001

Öğr. Gör. Korhan AKBAYTOGAN

Öğr. Gör. İrfan SAYAR

Öğr. Gör. Salih AKKEMİK

Öğr. Gör. Kemal ŞAHİN

COURSE PROGRAM

GRADUATE

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
BS 501 Computer Aided Art and Design I	3	8	BS 500 Seminar	0	4
BS 503 Research Methods	3	6	BS 502 Computer Aided Art and Design II	3	8
BS 505 Multimedia Studio Project	4	8	BS 504 Postgraduate Research Studies	4	10
Elective Courses		8	Elective Courses		8
Total		30	Total		30

3. SEMESTRE	MSGSU	ECTS	4. SEMESTRE	MSGSU	ECTS
Tez Çalışma Raporu		30	Tez Sunum		30
Total		30	Total		30

ELECTIVE COURSES

1. SEMESTRE	MSGSU	ECTS	2. SEMESTRE	MSGSU	ECTS
BS 531 Introduction to Programming	2	4	BS 534 Advanced Web Design	2	4
BS 533 Web Design	2	4	BS 536 3D Computer Animation	2	4
BS 535 Introduction to Computer Animation	2	4			

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: Assist. Prof. Dr. Turgay GÖKÇEN

BS 501 COMPUTER AIDED ART AND DESIGN I

4 hours/week, theory and practise, 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 and practise, 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: Öğr. Gör. Korhan AKBAYTOGAN

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.

Prerequisites: None

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. Süleyman BELEN, Assoc. Prof. Dr. Salih OFLUOĞLU, Assist. Prof. Dr. Turgay GÖKÇEN, Asist Prof. Dr. Erdem ERBAŞ, Assist. Prof. Dr. İrfan AYDIN

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:

Recommended Resources:

Teaching Staff: Öğr. Gör. Korhan AKBAYTOGAN

ELECTIVE COURSES

BS 531 INTRODUCTION TO PROGRAMMING

3 hours/week, Theory+Practise, 2 credits, 4 ECTS

Objective / Contents: This course is primarily intended for students who want to produce a piece of software or tool as part of their research studies. Programming algorithms, fundamentals components, modules and structures in programming are illustrated using object-based programming languages.

Pre-requisite: -

Assessment methods:

Recommended Resources:

Teaching Staff: Prof. Dr. Mitat UYSAL

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: Öğr. Gör. Salih AKKEMİK, Öğr. Gör. 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: Öğr. Gör. 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