

(It will be applied from 2018-2019 Fall)

**İZMİR INSTITUTE OF TECHNOLOGY
GRADUATE SCHOOL OF ENGINEERING AND SCIENCES
DEPARTMENT OF CITY AND REGIONAL PLANNING
CURRICULUM OF THE M.S. PROGRAM IN URBAN DESIGN**

Y1 - FALL SEMESTER		Credits	ECTS Credits
UD 501	Urban Design Project I	(2-6) 5	9
UD 514	Urban Design Process and Theory	(3-0) 3	7
	Elective Courses	(3-0) 3	7
	Elective Courses	(3-0) 3	7
UD 693	Research Seminar	(0-3) non-credit	8
UD 500	M.S.Thesis	(0-1) non-credit	26
CP 8XX	Special Studies	(8-0) non-credit	4

Y1 - SPRING SEMESTER		Credits	ECTS Credits
UD 502	Urban Design Project II	(2-6) 5	9
	Elective Courses	(3-0) 3	7
	Elective Courses	(3-0) 3	7
	Elective Courses	(3-0) 3	7
UD 500	M.S. Thesis	(0-1) non-credit	26
CP 8XX	Special Studies	(8-0) non-credit	4

Electives :		Credits	ECTS Credits
UD 520	Design and Innovation in Smart and Resilient Cities	(3-0) 3	7
UD 551	Politics of Urban Design	(2-2) 3	7
UD 572	Urban Infrastructure and Traffic Design	(2-2) 3	7
UD 575	Designing for Disaster Resistant Built Environments	(2-2) 3	7
UD 590	Special Topics in Urban Design	(3-0) 3	7
UD 516	Outdoor Space Design Techniques	(2-2) 3	7
UD 631	Case Studies in Urban Design	(3-0) 3	7
UD 555	Urban Design Techniques	(2-2) 3	7

Total credit (min.):28

Number of courses with credit (min.): 8

*All M.S. students must register Research Seminar course until the end of their 4th semester.

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COURSE DESCRIPTION:	Credit	ECTS
UD 500 M.S. THESIS	(0-1) non-credit	26
UD 501 URBAN DESIGN PROJECT I	(2-6) 5	9

The forming and testing of initial ideas (functional and formal terms) to take into account and to demonstrate understanding in principle the various design issues; the assembling of ideas into an explicit spatial design form and to demonstrate in principle the making and working of the design; the understanding of the nature, the assembly and the creation of the design form and to take into consideration the functional, the spatial and the urban context in which the design area is located and to appreciate and to experiment with the design of a satisfactory external built environment.

UD 502 URBAN DESIGN PROJECT II (2-6) 5 9

This studio course generally seeks to develop greater complexity in its consideration of urban design, concerning on the objectives and content of Urban Design Project I; emphasising the importance of given context; involving different actors getting forms; considering the appropriate identity of the proposed building types and the exploration of architectural vocabularies for given situations; offering greater sophistication in dealing with a building and space design; including the possibility of perspectives, axonometrics, collage and models in conjunction with conventional drawings.

UD 514 URBAN DESIGN PROCESS AND THEORY (3-0) 3 7

The definitions and concepts of urban design; the awareness of urban design as technique, as public presence as well as the guardianship of urban standards; the understanding of the potential and proper role of urban design within the comprehensive planning process and its essential nature, which covers the range from the area plan to the architectural image; the design process as the unity of apprehension, representation and realization; the theories or approaches to urban design; the perceptual and morphological themes in urban design.

UD 516 OUTDOOR SPACE DESIGN TECHNIQUES (2-2) 3 7

Mainly site survey, site improvements, design elements and details, circulation (pedestrian, bicycle, vehicular) and road layout, infrastructure elements and design, traffic calming-reducing pedestrian and vehicle conflict, design considerations for accommodating disabilities, qualities of urban outdoor spaces-what makes them successful-, and design for security. All these topics will be discussed through several examples on diverse urban landscapes (sidewalks, urban squares and plazas, waterfront designs, outdoor play areas, bikeways, greenways and so on). Additionally, students will be using the design techniques through personal projects along with weekly discussions.

UD 520 DESIGN AND INNOVATION IN SMART AND RESILIENT CITIES (3-0)3

Smart and resilient cities are the buzzwords of the Information Age. Architects, urban designers and planners are looking at design and innovation as the instrument to overcome the challenges of contemporary cities. This course, therefore, examines recent developments relevant to smart and resilient cities and new innovation and design approaches resulting socio-economic, spatial cultural issues raised by these changes. The first part of each class time is a seminar. Here, each student/ or study groups presents assigned readings. The second part evolves as discussions about the assigned reading in respect to their main points, critics and their implications.

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COURSE DESCRIPTION: **Credit** **ECTS**

UD 551 POLITICS OF URBAN DESIGN **(2-2) 3** **7**

This course argues that via the design of built environment, the power relations in society are (re-)organized and the societal resources are (re-)distributed among different groups *unevenly*. Simply, the design of built environment and thus, the (re-)development of urban space is not value-neutral; they physically both influence and also are influenced by societal power relations based on the socio-economic differences by income class, race/ethnicity, gender, religion, region, age, and so on. This course identifies the “spatialization” of these differences by the ideas and practices of urban design. The identification process as the first stage of understanding the “politics” of urban design is important to see how the design of built environment also affect different groups’ access to the societal resources. Then with the examples of case studies about urban design projects at different spatial scales, this course seeks the ways about how to develop design projects for a “better” redistribution of societal resources via built environment.

UD 555 URBAN DESIGN TECHNIQUES **(2-2) 3** **7**

Urban Design Techniques course includes various methods and techniques for urban design inquiry. Topics include methods for place, community, mobility and design policy. The course also provides techniques including site survey, representation and report techniques in urban design.

UD 572 URBAN INFRASTRUCTURE & TRAFFIC DESIGN **(2-2) 3** **7**

Introduction to traffic design elements and the types of roads and streets, and others. Basic principles, standards and the various approaches of the geometric design of the transportation facilities (curvatures, alignments, sidewalks, parking spaces, intersection and ramp design, etc.) will be introduced for each travel mode (public, transit, private, driving, pedestrians, cargo, bicycling, etc.) and pattern of movement. Comparative advantages of each travel mode and their linkages to each other by design tools. Trip productions, distributions and the circulation solutions between the activities. Allocation problem of the facilities and the services. Emergency solutions.

The role of traffic signals and dividers; divergings, mergings, channelization, crossings, borders, traffic volumes and lane designation. Classification of roads and their role in design. Governmental policies, public support of the projects. Additionally, discussions will be allowed to grasp the power of innovative ideas and alternative travel behaviors, and their diverse and rich extentions onto the design process. Externalities, environmental impacts and political outcomes of the transportation applications.

UD 575 DESIGNING FOR DISASTER RESISTANT BUILT ENVIRONMENTS **(2-2) 3** **7**

This course introduces current and newly emerging urban planning and design approaches with design criteria and guidelines related to the natural disaster prevention and risk management in built environments. As urban designers and planners, we need to develop a whole new way of thinking about how we design, plan and build our neighborhoods and cities, especially in natural hazard environment. Our present approaches to designing disaster prone areas are inadequate and might inflict great physical, environmental, social, economic and emotional harm that we can not tolerate.

The course highlights the concepts, issues and urban design guidelines especially related to the subject of the “disaster resistant community” (DRC) Besides the disaster risk areas and he issues of risk creating disaster resistant and resilient built environments. Case studies and urban design guidelines developed worldwide provide the class materials.

At the end of the class, students are expected to understand how urban design and planning might influence the disaster risks and its management in and via built environment. They are also required to critically evaluate and re-develop urban design guidelines, especially on the basis of this course’s subject.

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UD 631 CASE STUDIES IN URBAN DESIGN

(3-0) 3

7

This elective course will introduce students to theoretical and practical issues of best practices influencing the current state of art in urban design. The cases will be selected from both urban design idea competitions and applied national and international urban design projects.

UD 693 RESEARCH SEMINAR

(0-3) non-credit

8

The course is composed of two main parts. In the first party, by taking a departure from different theories, perspectives, approaches and conceptions the course focuses on quantitative, qualitative and pluralistic methodological stances in social and urban studies. In the second part, exemplary applied studies are conducted on research design and methods relevant to contemporary urban-social issues. The ethical problems, which appear during the research practice and report and presentation preparing are examined by drawing on concrete examples.

UD 590 SPECIAL TOPICS IN URBAN DESIGN

(3-0) 3

7

Group study of special topics in (A) Urban Design Theory and Methods; (B) Urban Public Space; (C) Water/climate/energy sensitive urban design; (D) Urban design guide and urban codes, directed by the instructor (s).

CP 8XX SPECIAL STUDIES

(8-0) NC

4

Graduate students supervised by the same faculty member study advanced topics under the guidance of their advisor.