

İZMİR INSTITUTE OF TECHNOLOGY
GRADUATE SCHOOL OF ENGINEERING AND SCIENCES
DEPARTMENT OF INDUSTRIAL DESIGN
CURRICULUM OF THE M.S. PROGRAM IN INDUSTRIAL DESIGN

<u>Core Courses</u>		<u>KREDİ</u>	<u>AKTS</u>
ID 501	Industrial Design Studio	(2-6) 5	8
ID 512	Advanced Product Development	(2-4) 4	8
ID 521	Research Methods in Design	(3-0) 3	6
ID 592	Seminar*	(0-2) NC	6
ID 500	M.S.Thesis	(0-1) NC	26
ID 8XX	Special Studies	(8-0) NC	4

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

Total credit (min.) :24

Number of courses with credit (min.): 7

<u>Elective Courses</u>		<u>KREDİ</u>	<u>AKTS</u>
ID 524	Consumption Trends and Material Culture	(3-0) 3	8
ID 525	Evolution of Media	(3-0) 3	8
ID 526	Human-Computer Interaction	(3-0) 3	8
ID 530	Designing and Reading Film	(3-0) 3	8
ID 531	Design Evolution	(3-0) 3	8
ID 534	Materials and Production Technologies	(2-2) 3	8
ID 535	City Landscapes in Cinema	(3-0) 3	8
ID 540	Cooperative Education Course	(0-6) 3	8
ID 552	Design Management	(3-0) 3	8
ID 562	Ergonomics and Human Factors in Techno Industrial Design	(3-0) 3	8
ID 572	Design Engineering	(3-0) 3	8
ID 581	Communication Design	(3-0) 3	8
ID 582	Design Semiotics	(3-0) 3	8
ID 584	Sustainable Design	(4-2) 5	8
ID 621	Product Innovation	(2-2) 3	8
ID 672	Philosophical Context of Design Research	(3-0) 3	8
ID 674	Fashion Concept in Design	(2-2) 3	8
ID 684	Industrial and Graphic Photography	(2-2) 3	8
ID 686	Cinema and Design	(3-0) 3	8
ID 687	Packaging Design	(3-0) 3	8
ID 688	Furniture Design	(3-0) 3	8
ID 689	Computer Aided Product.Design (For Non Designers)	(2-2) 3	8
ID 690	Computer Aided Product Design (For Designers)	(2-2) 3	8
ID 691	New Product Design	(3-0) 3	8
ID 692	Designing in Narrativity Transnational Cinema	(3-0) 3	8
ID 693	Special Topics in Industrial Design	(3-0) 3	8
ID 694	Design Competition Project	(2-2) 3	8

- ID 584 Sustainable Design (4-2) 5 AKTS 8**
 Study of man/machine, man/workspace, and man/environment relationships case studies are made of physical dysfunction in operating systems. Troughs behavioral mapping interaction techniques, and other design methods, points of conflict between man and environment are located, new design criteria are formulated and physical solutions are generated. Design proposals solutions are presented as environmental models or, where possible, full-scale mock-ups.
- ID 592 Seminar (0-2) NC AKTS 6**
 Seminar studies regarding the theory and practice of industrial design, executed under scientific research methods for research, presentation and discussion.
- ID 621 Product Innovation (2-2) 3 AKTS 8**
 Application of technology for the innovation of new products. Application of systematic design methods to enhance creativity and develop innovative solutions.
- ID 672 Philosophical Context of Design Research (2-0) 2 AKTS 8**
 Explores the philosophical framework for conducting research and building knowledge in the field of design. Topics include concepts from epistemology phenomenology and structuralism. The core concept and meaning behind material things through a variety of designer, designed product and style to be analyzed.
- ID 674 Fashion Concept in Design (2-2) 3 AKTS 8**
 The concept of fashion is outlined by the notion of style, image and socio-cultural taste; the nature of adoption of a new idea from the innovator throughout different levels of society and the lifecycle of that idea with an output of a product with the affects of the lives of the social individuals as being consumers; exercises on creation of images in the light of conceptual statements.
- ID 684 Industrial and Graphic Photography (2-2) 3 AKTS 8**
 Beginning with an overview of industrial photography the course leads through an overall consciousness of the students from choosing lenses and camera equipment to film types and technical data, lighting and to control, developing an printing processes everything from choosing lenses and camera equipment to film types end technical data, lighting and tone control, processing management and printing. This both practical and technical course also includes a series of design studies and introduce students how to use current visual theories and methods. It also enables students to produce alternative design students for their project by the means of using high-resolution 3D image manipulation software including Photoshop 5.0
- ID 686 Cinema and Design (3-0) 3 AKTS 8**
 This course is designed to teach the student the basic methods of design both to create cinematographic space (setting, lightening, space design, decor, costume, computer-mediated animation film, etc.) and also the way of using the material products which used in the films.
- ID 687 Packaging Design (3-0) 3 AKTS 8**
 Context of study is to explain importance that packaging has various aspects such as material, consumersociety, graphicapplications, environmental issues (recycle,disposal,waste,etc).
- ID 688 Furniture Design (3-0) 3 AKTS 8**
 The objective of the course is to give understanding to designers about furniture design which is related with,human factors, production tecniques and ergonomy.

- ID 689 Computer Aided Product Design (For Non Designers) (2-2) 3 AKTS 8**
 The objective of the course is to give initial professional orientation in issues of 3d modeling for engineers. Surface modeling, solid modeling, mesh modeling and nurbs modeling techniques will be taught. The scope of the course Autodesk Professional Inventor, CATIA v6 3 dimensional softwares will be described. By the end of the course, students will be comfortable enough with the interface, workflow and basic tools of 3D to begin being productive.
- ID 690 Computer Aided Product Design (For Non Designers) (2-2) 3 AKTS 8**
 The objective of the course is to give initial professional orientation in issues of 3d modeling for Industrial Designers, Architects and Planners. In order to look more realistic designs, surface modeling, solid modeling, mesh modeling and nurbs modeling techniques will be taught. The scope of the course Autodesk Professional Inventor, Autodesk Alias AutoStudio, Autodesk Fusion 360 3 dimensional softwares will be described. By the end of the course, students will be comfortable enough with the interface, workflow and basic tools of 3D to begin being productive.
- ID 691 New Product Design (3-0) 3 AKTS 8**
 Idea generation, understanding customer needs, involvement of customers in the innovation process. Generation, development, and selection of new product concepts. Best practices for designing and developing new products from the pre-project stage to commercialization. Technology forecast, and managing technological innovation, product platforms, product life cycle assessment and project management.
- ID 692 Designing in Narrativity Transnational Cinema (3-0) 3 AKTS 8**
 The concept of transnational cinema The concepts of National, International, Diasporic and Migrant Cinema Key concepts and theories in the field of transnational cinema the concepts of time and space in cinema and their relation to other key elements of film Time and space construction/design in transnational cinema.
- ID 693 Special Topics in Industrial Design (3-0) 3 AKTS 8**
 Directed group study of special topics in Industrial Design
- ID 694 Design Competition Project (2-2) 3 AKTS 8**
 Context of the study is to explain how to read the competition specifications, understanding the design presentation criteria, to give the understanding of regulations and rules, to present and participate a design project according to the specifications.
- ID 500 M.S. Thesis (0-1) NC AKTS 26**
 The content of the course varies according to chosen thesis topic. The program of study is determined by student in conference with thesis advisor. The student must progress with thesis work.
- ID 8XX Special Studies (8-0) NC AKTS 4**
 Graduate students supervised by the same faculty member study advanced topics under the guidance of their advisor.