

Course Code: <b>ETB 101</b>			Course Name: <b>Basic Design I</b>		
Semester	Theoretical	Lab	Application	Credits	ECTS
<b>1</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>5</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D1</b>	<b>Required</b>		<b>None</b>	<b>4x14 weeks = 56</b>
Course Content / Objective	Providing students with basic design elements and principals. Increasing visual sensibility and developing visual expression Teaching visual analysis and enhancing imagination				
Learning Outputs	Learning the basic concepts of art and design Developing the ability of analytical thinking and creativity				
Learning / Teaching Methods	Theoretical course and model applications Sketches, models and presentations Supporting concepts with visual elements				
Use of Computers	80 % powerpoint				
Course textbook and/or sources	Pevsner, Nikolaus. PIONEERS OF MODERN DESIGN. MIDDLESEX, Penguin Books Ltd. 1974 Feldman, Gardner, Csikszentmihalyi. CHANGING THE WORLD – A framework for the Study of Creativity. USA, Westpoint, Praeger Publications, 1994 Papanek, Victor. DESIGN FOR THE REAL WORLD. London. Thames and Hudson Ltd. 1972 Beyazıt, Nigan. TASARIMI ANLAMAK. İstanbul, İdeal Kültür ve Yayıncılık Tic. Ltd Şti. 2008 Clay, Robert. BEAUTIFUL THING-An introduction to design. NY, Oxford Int Publishers BERG. 2009				
Evaluation Method	Exam, homework, presentation, comments on the works Understanding and expression of the applications done at the end of each course				

Student workload	1. Course.....48 2. Exams.....8 3. Individual Research Observation.....10 4. Homework, practical study.....30 5. Online and face-to-face interview .....29 Total: .....125
Instructor	Prof. Beril Anılanmert
Prepared by	Prof. Beril Anılanmert 17.January.2013

Course Code: <b>ETB 131</b>			Course Name: <b>Technical Drawing and Perspective I</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>1</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>5</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D1</b>	<b>Required</b>		<b>None</b>	<b>6x14 weeks=84</b>
Course Content / Objective	To reach explaining stage of the designed product with Technical Drawing rules				
Learning Outputs	1. Definition of Technical Drawing tools and devices and preparation for the exercise assignments <ul style="list-style-type: none"> <li>• exercises for horizontal and vertical lines using a Rapiod, goniometer and T-ruler</li> <li>• exercises for 45 degree lines using a Rapiod, goniometer and T-ruler</li> <li>• exercises for 30 - 60 degree lines using a Rapiod, goniometer and T-ruler</li> <li>• Exercises for circular lines using rapido and a pair of compasses</li> </ul> 2. Line (rapido) types and values, places of use. Exercise assignments. 3. Polygon drawing assignments 4. Point, vector, plane, project exercises 5. Point, vector, plane, projection and parallel perspective vision exercises 6. Expression of objects with projection rules. 7. Expression of objects with parallel perspective rules.				
Learning / Teaching Methods	The example is explained by drawing in class ( on the board ). At least one exercise / assignment is completed in class about the lectured subject. It is required that homework assignments given in that class must be submitted in the next lecture				
Use of Computers	None				

Course textbook and/or sources	Linea stile (Tomasso Gnome) Order in space (Keith Critchlow) Engineering Drawing for Technicians Temel Teknik Resim (İ.Zeki Şen- Nail Özçilingir)
Evaluation Method	1. Submission of the given assignments on time. (assignments not submitted on time is evaluated over 30 points) 2. Fulfillment of the requested items (either material or works) 3. To record the courses and subjects that the lecturer gave on the technical drawing notebook on a daily basis. 4. To create the technical drawing file 5. To behave accordingly to the attendance discipline 6. To succeed in midterm and final exams
Student workload	1. Course..... 72 2. Exam..... 12 3. Practical work in school and problem solving..... 21 4. Homework..... 18 5. Online and face-to-face interview..... 2 Total: .....125
Instructor	Lecturer Ergin Yetkin
Prepared by	Lecturer Ergin Yetkin 17.January.2013

Course Code: <b>ETB 121</b>			Course Name: <b>Mathematics</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>4</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D1</b>	<b>Required</b>		<b>None</b>	<b>3x14 weeks=42</b>
Course Content / Objective	Mathematics course is set up in order to remind the general mathematics subjects that industrial product designers will need in their educational and professional life. In the scope of this course, general mathematics subjects, some equation solutions, simple geometry and analytical geometrical subjects are undertaken. Subject titles: Numbers, GCM-ICM, Equation solutions, angles and triangles, polygons and quadrangles, circle, solid objects, geometric place, drawings and analytical geometry.				
Learning Outputs	Mathematics course aims to develop students' analysis and synthesis ability by enhancing the abstract thinking ability when they face a problem.				

Learning / Teaching Methods	Based on theoretical course lecturing, application course, preparing an assignment about the subject.
Use of Computers	_
Course textbook and/or sources	<ul style="list-style-type: none"> <li>• Squaring the Circle: A History of the Problem; E. W. Hobson, Sc.D, LL.D, F.R.S. Chelsea Publishing Company.</li> <li>• A Modern View of Geometry; L. M. Blumenthal, W. H. Freeman and Company, San Francisco and London.</li> <li>• Foundations of Geometry; K.Borsuk, W. Szmielew, North-Holland Publishing Company, Amsterdam.</li> <li>• Advanced Plane Geometry; C. Zwikker, North-Holland Publishing Company, Amsterdam.</li> </ul>
Evaluation Method	Midterm (or a make-up exam) Final exam
Student workload	1. Course duration.....42 2. Duration of Work done outside class.....20 3. Midterm preparation duration.....10 4. End of semester exam preparation duration.....16 Total: .....88
Instructor	Assistant Professor Dr. Fatma Çalışkan
Prepared by	Assistant Professor Dr. Fatma Çalışkan 17.January.2013

Course Code: <b>ETB 201</b>			Course Name: <b>Project I</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>3</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>6</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D1</b>	<b>Required</b>		<b>None</b>	<b>6x14=84</b>
Course Content / Objective	<ul style="list-style-type: none"> <li>• Introduction to Industrial Design</li> <li>• Analytical approach and design solution suggestions to simple objects. Its applications and introduction to project preparation techniques.</li> <li>• Development and design of one single product with a simple program</li> </ul>				

Learning Outputs	<ul style="list-style-type: none"> <li>• Improving of process and project management abilities.</li> <li>• Creating original ideas</li> <li>• Improving the ability of interdisciplinary teamwork.</li> </ul>
Learning / Teaching Methods	Doing contemporary and original research and analyses with universal standards besides Project-based sample case analysis, interactive data sharing and evaluation, literature research, brainstorming, sketch exercises and group work.
Use of Computers	%20 MSOffice programs, FreeHand, Illustrator and Photoshop programs
Course textbook and/or sources	The Eco-Design Handbook, Young European Designers, 1000 New Designs, Innovation, Collapsibles, Domus, Industrial design, Design, Form, Scandinavian design etc. (periodicals)
Evaluation Method	<p>Criteria-based (absolute) evaluation,</p> <p>Midterm-jury 15%</p> <p>Sketching exam 15%</p> <p>Attendance 20%</p> <p>Final Jury %50</p> <p>Student's attendance, active participation in projects, research, development, original attitude, presentation and model making stages are evaluated by taking mutual standard or taking a certain level of performance as a criteria.</p>
Student workload	<p>1. Course ..... 70 hours</p> <p>2. Exam, homework, presentation..... 14 hours</p> <p>3. Individual research, observation ..... 26 hours</p> <p>4 Homework..... 30 hours</p> <p>5. Online and face-to-face interview .....10 hours</p> <p>Total: .....150 hours</p>
Instructor	Asistant Prof. Önder Turan, Instructor Sinem Bahar Tunçelli, Instructor Cem Drahşan, Instructor Özcan Menekşe
Prepared by	17.January.2013

Course Code: <b>ETB 211</b>			Course Name: <b>Computer Aided Design I</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>3</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>3</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D1</b>	<b>Required</b>		<b>None</b>	<b>3x14 weeks=42</b>
Course Content / Objective	Transferring ability and knowledge about doing and increasing the variety of 2-dimensional drawings (Technical Drawings and sketches) on computer in order to adapt it to the developing technology of today's era				
Learning Outputs	1) recognize the programs used in design process 2) familiarize and use the Autocad menus 3) use the icons necessary for drawing 4) accomplish the necessary modify operations on the drawing 5) draw all basic geometrical forms 6) draw the 2-dimensional designs with Autocad by using the technical drawing rules				
Learning / Teaching Methods	2-dimensional drawing menus of Autocad program are taught with applications and by using these menus technical drawings of many objects are made with different forms and surfaces in class or given as homework.				
Use of Computers	with 100% ratio AUTOCAD drawing program				
Course textbook and/or sources	Autocad 2005 ve Autocad LT 2005 George Omura; Translated by: Selçuk Tüzel Alfa Basım Yayın Dağıtım; İstanbul, 2005, AutoCAD 2004 Süleyman Yıldız Nobel Yayın Ankara, 2004, 1. baskı				
Evaluation Method	participation in class, exams, individual researches, observation, homework and practical exercises				
Student workload	1. Course ..... 36 hours 2. Exam ..... 6 hours 3. Individual Research and observation ..... 15 hours 4. Homework and practical exercises ..... 14 hours 5. Online and face-to-face interview ..... 4 hours Total: ..... 75 hours				
Instructor	Instructor Güner Dönmez				
Prepared by	Instructor Güner Dönmez 17.January.2013				

Course Code: <b>ETB 223</b>			Course Name: <b>Materials and Production Techniques I</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>3</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>3</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D1</b>	<b>Required</b>		<b>None</b>	<b>3x14 weeks=42</b>
Course Content / Objective	Teaching the general properties of materials and raw materials highly used in industrial product design and production. Teaching the professional terminology. Teaching the alternatives in material and production methods selection				
Learning Outputs	Forming the relationships between design-material-production methods Understanding the general properties of raw materials and other materials and the way they are obtained. Acquiring the ability to suggest alternatives				
Learning / Teaching Methods	Explaining - Sampling - Video presentations and comparing the material samples				
Use of Computers	For visual presentations when necessary				
Course textbook and/or sources	Publications, journals that argue the relationship between "Design and Material" about the subject				
Evaluation Method	1. Midterm Exam % 15 2. Midterm Exam % 15 Final Exam % 60 Participation in class % 10				
Student workload	1. Course ..... 36 hours 2. Exam ..... 6 hours 3. Homework and practical exercises ..... 33 hours Total: ..... 75 hours				
Instructor	Instructor Özcan Menekşe				
Prepared by	Instructor Özcan Menekşe 17.January.2013				

Course Code: <b>ETB 241</b>			Course Name: <b>Modelling I</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS

<b>3</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>3</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D1</b>	<b>Required</b>		<b>None</b>	<b>4x14=56</b>
Course Content / Objective	Teaching the basic materials used in model and prototype making that support the students' project works and teaching the methods of processing these materials. Teaching how to use the basic tools and devices				
Learning Outputs	Teaching Realistic Model making which is compatible with the design. Acquiring the ability to suggest production method alternatives for the products that students design				
Learning / Teaching Methods	Teaching the processing-combining and coating methods of different materials with applications. Assigning application exercises in-class and as homework. Evaluation of the application assignments				
Use of Computers	None				
Course textbook and/or sources	None				
Evaluation Method	The average grade of the grades for each model that students make with different material and method within the semester will be taken as midterm exam grade. Midterm Exam .....50% Final Exam .....50%				
Student workload	1. Course ..... 48 hours 2. Exam ..... 4 hours 3. Homework and practical exercises ..... 23 hours Total: ..... 75 hours				
Instructor	Instructor Özcan Menekşe				
Prepared by	Instructor Özcan Menekşe 17.January.2013				

Course Code: <b>ETB 352</b>			Course Name: <b>Design History</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>5</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>HSS</b>	<b>Elective</b>		<b>None</b>	<b>3x14 weeks=42</b>



Course Content / Objective	1. Overview of the evolution of contemporary design 2. Introducing the leading trends and contemporary attitudes of industrial design 3. Explicating the relationship between industrial products with trends peculiar to architecture and plastic arts 4. Indicating the relationship between design and historical, socio-cultural, political events
Learning Outputs	1. Students explain the evolution of design concept 2. Students analyze the contemporary designs within the chronological order 3. Students contribute to today's design comments and creative process
Learning / Teaching Methods	Presentation notes and discussions that belong to the theory-based course along with lots of visual materials
Use of Computers	70 % in ratio
Course textbook and/or sources	Özer, B., Kültür, Sanat, Mimarlık, Yapı Yayın, İstanbul, 2009; Fiell, C. ve P., Design of the 20th Century, Tachen, Köln, 2005; Collins, M., Post-Modern Design: Design Since 1850, British Museum Publications, London, 1987; Papadakis, A., ve Collins, M., Post-Modern Design, Academy Editions, London, 1989; de Noblet, J., Industrial Design Reflection of a Century, Flammarion, Paris, 1993.
Evaluation Method	Criteria-based (absolute) evaluation
Student workload	1. Course..... 36 hours 2. Exam..... 6 hours 3. Reading..... 33 hours 4. Research on internet ..... 40 hours 5. In class discussions ..... 10 hours Total ..... 125 hours
Instructor	Prof. Dr. Filiz Özer
Prepared by / Tarih	Prof. Dr. Filiz Özer 17.January.2013

Course Code: <b>ETB 277</b>			Course Name: <b>Descriptive Geometry</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS

<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>5</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>C</b>	<b>Elective</b>		<b>None</b>	<b>3x14 weeks=42</b>
Course Content / Objective	1. Improving 2 and 3 dimensional drawing techniques 2. Acquiring the ability to apply geometric theory and techniques on 2 and 3 dimensional products 3. Teaching the Concept of projection and its techniques				
Learning Outputs	1. Being able to apply the expression techniques necessary in product design 2. Making the products ready for production by drawing the views and expansion perspectives				
Learning / Teaching Methods	1. A template with a small scale where projecting planes are expressed and indicating the plan, view and side views on this template 2. Expression of the explained information by drawing				
Use of Computers	40% when necessary for visual presentation				
Course textbook and/or sources	Perspektif ve gölge (L. Gürer) Temel Tasarım (L. Gürer) Teknik Çizim (Orhan Şahinler) Tasarı Geometri (Ali Düzgün)				
Evaluation Method	Absolute Evaluation				
Student workload	1. Course ..... 36 hours 2. Exam ..... 6 hours 3. Homework ..... 48 hours 4. Face-to-face interview ..... 15 hours 5. Individual research..... 20 hours Total: ..... 125 hours				
Instructor	Prof. Dr. Latife Gürer				
Prepared by / Tarih	Prof. Dr. Latife Gürer 17.January.2013				

Course Code: <b>ETB 202</b>			Course Name: <b>Project II</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>4</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>6</b>

Course Language	Course Type	Required / Elective	Prerequisite	Total Courses
<b>Turkish</b>	<b>D1</b>	<b>Required</b>	<b>None</b>	<b>6x14=84</b>
Course Content / Objective	<ul style="list-style-type: none"> <li>• The relationship between style, material and function properties and mass production methods in industrial design</li> <li>• Project preparation and defining design elements</li> <li>• Judgemental values and criteria necessary for design</li> <li>• Designing with simple elements and improving the design's use and perception dimensions.</li> <li>• Exercises in order to improve the designs.</li> </ul>			
Learning Outputs	<ul style="list-style-type: none"> <li>* Improving the abilities of process and project management</li> <li>* Creating original ideas</li> <li>*Improving the abilities of interdisciplinary group work</li> </ul>			
Learning / Teaching Methods	Doing contemporary and original research and analyses with universal standards besides project-based sample case analysis, interactive data sharing and evaluation, literature research, brainstorming, sketch exercises and group work.			
Use of Computers	40% MSOffice programs FreeHand, Illustrator, Photoshop programs			
Course textbook and/or sources	The Eco-Design Handbook, Young European Designers, 1000 New Designs, Innovation, Collapsibles, Domus, Industrial design, Design, Form, Scandinavian design etc. (periodicals)			
Evaluation Method	Criteria-based (absolute) evaluation, Midterm-jury 15% Sketching exam 15% Attendance 20% Final Jury %50 Student's attendance, active participation in projects, research, development, original attitude, presentation and model making stages are evaluated by taking mutual standard or taking a certain level of performance as a criteria.			
Student workload	1. Course ..... 70 hours 2. Exam ,homework presentation..... 14 hours 3. Individual Research, observation ..... 26 hours 4. Homework..... 30 hours 5. Online and face-to-face interview .....10 hours Total: .....150 hours			
Instructor	Asistant Prof. Önder Turan, Instructor Sinem Bahar Tunçelli, Instructor Cem Drahşan, Instructor Özcan Menekşe			

Prepared by	17.January.2013
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Course Code: <b>ETB 311</b>			Course Name: <b>Computer Aided Design III</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>5</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>5</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>C</b>	<b>Elective</b>		<b>None</b>	<b>3 x 14 weeks =42</b>
Course Content / Objective	Letting students gain the ability to make 3 dimensional designs by means of computers				
Learning Outputs	<ol style="list-style-type: none"> <li>1. . Learning which programs are used to design sketches and projects on computer</li> <li>2. Being able to form 2 dimensional views of designs' with RhinoCeros modelling program</li> <li>3. Learning the solid modelling menu and icons of RhinoCeros modelling program</li> <li>4. Being able to form the 3D visuals of the projects with the aid of solid modelling</li> <li>5. Learning the surface modelling menu and icons of RhinoCeros programs</li> <li>6. Being able to form the 3D visuals of the projects with the aid of surface modelling</li> </ol>				
Learning / Teaching Methods	2 and 3 dimensionl drawing tool menus are taught with hands-on exercises and by using these tool menus, many objects with different forms and surfaces are modelled within the course or as homework				
Use of Computers	%100 in ratio RhinoCeros modelling program				
Course textbook and/or sources	Rhinoceros Level 1-2 Training Manual V3.0 RobertMcneel&Associates 2002				
Evaluation Method	In class participation, exams, individual researches, observation, homework and practical work				

Student workload	1. Course ..... 36 hours 2. Exam ..... 6 hours 3. Individual Research, observation ..... 28 hours 4. Homework, practical exercise ..... 40 hours 5. Online and face-to-face interview ..... 15 hours Total: ..... 125hours
Instructor	Instructor Güner Dönmez
Prepared by	Instructor Güner Dönmez 17.January.2013

Course Code: <b>ETB 266</b>			Course Name: <b>Advanced Presentation Techniques</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>5</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>5</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>C</b>	<b>Elective</b>		<b>None</b>	<b>3x14 weeks=42</b>
Course Content / Objective	Improving the design students' perception of the world, making them think about 3D and transfer what they think accurately. Introducing presentation materials over style, form and color and showing students how to use these concepts				
Learning Outputs	Ratio-Balance, Perspective, single escaping, double escaping, exploded, line, pattern, color, painting techniques, dry color, powder pastel, marker / flomaster watercolor, tablet, plate organization				
Learning / Teaching Methods	Theoretical explanation at the beginning of each course and doing applications on A3 papers after video film screening with copies handed out or the compositions formed with design objects				
Use of Computers	%50 in Course presentations, with the purpose of showing video and visuals				
Course textbook and/or sources	Francis Ching books and videos that a marker company prepared				
Evaluation Method	Average of course applications done throughout the year and homework assignments are taken, the highest application grade is accepted as the midterm grade. 4 assignments are given as the final grade and the average is taken.				

Student workload	1. Course.....36 2. Exam.....6 3. Individual Research Observation.....30 4. In class assignments, critique.....21 5. Online and face-to-face interview.....32 Total: .....125
Instructor	Instructor Murad Babadağ
Prepared by / Tarih	Instructor Murad Babadağ 13.December.2012

Course Code: <b>ETB 351</b>			Course Name: <b>Furniture Design</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>5</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>5</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D2</b>	<b>Elective</b>		<b>None</b>	<b>3x14 weeks=42</b>
Course Content / Objective	Examining the elements defined as furniture in the scope of industrial production as from the Concept-Structure-Setup-Form point of view and aiming to gain creative results in Definition-Design-Project and Modelling stages by the help of practical exercises and theoretical exercises by specifying all efficient factors and fundamental values.				
Learning Outputs	Students who complete this course, will be able to: I. . make designs with the priority of structure II. develop creative sketching techniques III. Make designs with material priority IV. Learn the creative thinking and sketching techniques V. Learn the systematic planning on furniture design VI. Gain the abilities for making the product richer VII. Gain the ability to add identity and personality to furnitures				
Learning / Teaching Methods	Research Projects, critiques, sketches				
Use of Computers	50% in course presentation				

Course textbook and/or sources	The measure of man Dreyfuss H. Principles of three-dimensional design Wong, W. Creative design in furniture Warnum Standing and sitting posture Akerblom , B. Design and Form Johannes Itten Anthropometrics For Designers Coroney, J. Domus , Design , Form , Scandinavian design ,etc. periodicals
Evaluation Method	Midterm Exam (Project) 60% Final Exam Grade 40% Criteria based absolute evaluation
Student workload	1. Course.....36 2. Exam.....6 3. Individual Research observation.....35 4. Homework, presentation, practical exercise.....35 5. Online and face-to-face interview.....18 Total: .....125
Instructor	Asist. Prof. Önder Turan
Prepared by / Tarih	Asist. Prof. Önder Turan 17.January.2013

Course Code: <b>ETB 302</b>			Course Name: <b>Project IV</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>6</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>10</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D1</b>	<b>Required</b>		<b>None</b>	<b>6x14=84</b>
Course Content / Objective	<ul style="list-style-type: none"> <li>• Creative ideas, new proposal and production techniques in industrial design.</li> <li>• Evaluation of sources.</li> <li>• Evaluation of client's behaviours and creating unique designs.</li> </ul>				
Learning Outputs	<ul style="list-style-type: none"> <li>• Developing the abilities of process and project</li> <li>• Creating unique ideas</li> <li>• Creating the abilities of interdisciplinary group work</li> </ul>				

Learning / Teaching Methods	Doing contemporary and original research and analyses with universal standards besides Project-based sample case analysis, interactive data sharing and evaluation, literature research, brainstorming, sketch exercises and group work.
Use of Computers	40% MSOffice programs, FreeHand, Illustrator, Photoshop, 40% CAD programs.
Course textbook and/or sources	The Eco-Design Handbook, Young European Designers, 1000 New Designs, Innovation, Collapsibles, Domus, Industrial design, Design, Form, Scandinavian design etc (periodicals)
Evaluation Method	Criteria-based (absolute) evaluation Midterm jury %15 Sketch Exam %15 Participation to course %20 Final jury %50 Student's attendance, active participation in projects, research, development, original attitude, presentation and model making stages are evaluated by taking mutual standard or taking a certain level of performance as a criteria.
Student workload	1. Course ..... 70 hours 2. Exam ,assignment presentation..... 14 hours 3. Individual Research, observation ..... 76 hours 4. Homework..... 70 hours 5. Online and face-to-face interview .....20 hours Total: .....250 hours
Instructor	Instructor Cem Draşan
Prepared by	Instructor Cem Draşan 17.January.2013

Course Code: <b>GSE 399</b>			Course Name: <b>Portfolio Design</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>5</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>5</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>C</b>	<b>Elective</b>		<b>None</b>	<b>3x14 weeks=42</b>



Course Content / Objective	The main purpose of this course is to teach the basic knowledge regarding the development of a personal portfolio from a industrial designer's point of view. Students are directed to develop the best portfolios that reflect themselves. It is expected from them to prepare a portfolio that reflects their best work, business card and a CV and use the best presentation style.
Learning Outputs	Digital and printed portfolio, CV, business cards
Learning / Teaching Methods	Theoretical Course lecturing and preparation of students' own portfolios, CVs and business cards according to these lectures.
Use of Computers	The course takes place in the computer lab
Course textbook and/or sources	1. Boulton, Marc. 2009. A Practical Guide To Designer for The Web (PDF book). Published by Marc Boulton Design LTD, UK. 2. Linton, Harold. 2003. Portfolio Design. Third Ed. W.W. Norton &Company. New York*London. 3. Myers, Debbie Rose. 2009. The Graphic Designers Guide to Porfolio Design. Second Ed. John Wiley & Sons. Hoboken, New Jersey. 4. Five simple steps to better typography, Marc Boulton. <a href="http://www.markboulton.co.uk/journal/comments/five-simple-steps-to-better-typography">http://www.markboulton.co.uk/journal/comments/five-simple-steps-to-better-typography</a> 5. Five simple steps to designing grid systems, Marc Boulton. <a href="http://www.markboulton.co.uk/journal/comments/five-simple-steps-to-designing-grid-systems-part-1">http://www.markboulton.co.uk/journal/comments/five-simple-steps-to-designing-grid-systems-part-1</a> 6. Çakır, Gamze. 2009. Grafik Sanatlar Eğitimi Açısından Portfolyo Tasarımı, Gazi Üniversitesi, Eğitim Bilimleri Enstitüsü, Applicationlı Sanatlar Eğitim Anabilim Dalı, Grafik Eğitimi Bilim dalı, Ankara.
Evaluation Method	Determining if the business cards, CVs and portfolios (digital and printed) are prepared according to the lectured subjects (color, grid, typography, layout) or not
Student workload	1. Course.....36 2. Exam.....6 3. Individual Research, observation.....15 4. Homework and practical exercises.....48 5. Online and face-to-face interview.....20 Total: .....125
Instructor	Instructor Bilgen Manzakoğlu
Prepared by	Instructor Bilgen Manzakoğlu 17.January.2013

Course Code: <b>ETB 473</b>			Course Name: <b>Automotive Design I</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>5</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>5</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D2</b>	<b>Elective</b>		<b>None</b>	<b>3x14 weeks=42</b>
Course Content / Objective	The aim of the course is to bring up the students as designers that automotive industry needs. In addition to covering the subject in all aspects and giving fundamental knowledge of automobile design, the course partially lectures mechanical and engineering issues				
Learning Outputs	<ol style="list-style-type: none"> <li>1. Setting up the concept of vehicle architecture</li> <li>2. <ul style="list-style-type: none"> <li>• Vehicle design methodology</li> <li>• Functions and segments</li> <li>• Packaging idea</li> <li>• Measurement and Proportion</li> <li>• Passenger packaging</li> <li>• Interior space and cargo volume</li> <li>• Power transfer systems</li> <li>• Rims and tires</li> <li>• Suspension and chassis</li> <li>• Body structures</li> </ul> </li> <li>3. Vehicle terminology</li> </ol>				
Learning / Teaching Methods	<p>Vehicle design exercises</p> <p>Improving the concept of automotive design by supporting the theoretical course by the help of discussion groups, assignments and visual materials</p>				
Use of Computers	50%				
Course textbook and/or sources	<p>Books: Masters of Car Design by Larry Edsall, Car Design:Structure &amp; Architecture by Jan Norbye,H-Point:The Fundamentals of Car Design&amp;Packaging by Stuart Macey&amp;Geoff Wardle,How to Design Cars Like Pro by Tony Lewin...</p> <p>Periodicals: Car Styling, Popular Mechanics...</p> <p>DVD: Ferrari Factory, A Car is Born/BMW...</p> <p>Factory visit: Hyundai...</p>				
Evaluation Method	Research, homework, presentation				

Student workload	1. Course.....36 2. Exam.....6 3. Individual Research, observation..... 25 4. Homework, presentation, interactive work.....33 5. Discussion groups.....25 Total: .....125
Instructor	Instructor Cem Draşan
Prepared by	Instructor Cem Draşan 17.January.2013

Course Code: <b>ETB 475</b>			Course Name: <b>Automotive Design II</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>6</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>5</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D2</b>	<b>Elective</b>		<b>None</b>	<b>3x14 weeks=42</b>
Course Content / Objective	Students will design their own vehicles according to the selected brand's identity and specified criteria. The course aims to teach vehicle drawing and clay modelling techniques which are unique to the industry.				
Learning Outputs	1. Vehicle design concept development 2. Vehicle drawing techniques. Sketching & keyline drawing 3. Vehicle modelling techniques.Clay Modeling				
Learning / Teaching Methods	Strengthening the concept of vehicle design by the help of of theoretical lectures, application groups, team workshops using material, assignments and visual materials				
Use of Computers	30%				
Course textbook and/or sources	Book: Automotive Design Techniques and Design Modeling by Frederick E.Hoadley, Clay Modeling Techniques by Yasusato Yamada, How to Draw Cars Like Pro by Thom Taylor, Creative Marker Techniques:In Combination With Mix Media by Yoshiharu Shimizu... DVD: The Basics of Clay Modeling by Chavant, Advanced Techniques in Clay Modeling				
Evaluation Method	Researches, technical applications, homework, presentations				

Student workload	1. Course ..... 36 hours 2. Exam ..... 6 hours 3. Field research.....15 hours 3. Individual Research, observation ..... 25 hours 4. Homework, practical exercise ..... 33 hours 5. Online and face-to-face interview ..... 10 hours Total: .....125 hours
Instructor	Instructor Cem Draşan
Prepared by	Instructor Cem Draşan 17.January.2013

Course Code: <b>ETB 401</b>			Course Name: <b>Project V</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>7</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>12</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D1</b>	<b>Required</b>		<b>None</b>	<b>6x14=84</b>
Course Content / Objective	<ul style="list-style-type: none"> <li>• Designing with developed systems and methods</li> <li>• Automotive and transportation systems design</li> <li>• Experimental approaches</li> <li>• The Design and Project of wide and complex products or systems that will answer to all dimensions of the problem.</li> </ul>				
Learning Outputs	<ul style="list-style-type: none"> <li>• Developing the process and project management abilities</li> <li>• Creating original ideas</li> <li>• Developing the abilities of interdisciplinary team work</li> </ul>				
Learning / Teaching Methods	Doing contemporary and original research and analyses with universal standards besides Project-based sample case analysis, interactive data sharing and evaluation, literature research, brainstorming, sketch exercises and group work.				
Use of Computers	%90 MSOffice programs, FreeHand, Illustrator, Photoshop, CAD programs				
Course textbook and/or sources	The Eco-Design Handbook, Young European Designers, 1000 New Designs, Innovation, Collapsibles, Domus, Industrial design, Design, Form, Scandinavian design etc. (periodicals)				

Evaluation Method	Criteria-based (absolute) evaluation, Midterm-jury 15% Sketching exam 15% Attendance 20% Final Jury %50 Student's attendance, active participation in projects, researches, developments, original attitude, presentations and model making stages are evaluated by taking mutual standard or taking a certain level of performance as a criteria.
Student workload	1. Course ..... 70 hours 2. Exam ,homework, presentation..... 14 hours 3. Individual Research, observation ..... 100 hours 4. Homework..... 96 hours 5. Online and face-to-face interview .....20 hours Total: .....300 hours
Instructor	Asist. Prof. Önder Turan, Instructor Sinem Bahar Tunçelli, Instructor Gör. Cem Drahşan, Instructor Özcan Menekşe
Prepared by	17.January.2013

Course Code: <b>ETB 342</b>			Course Name: <b>Product Design From Sci-Fi To Future Reality</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>7</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>5</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>C</b>	<b>Elective</b>		<b>None</b>	<b>3x14 weeks = 42</b>
Course Content / Objective	Analyzing the "Film Production Design" in Science fiction films,comparing Film Production Design with Industrial Product Design process from the concept stage to the end product. Introduction to the concepts of Futurism and Future Reality. Analysis of science fiction films from "Design Perspective" point of view. Observing the relationships of the new user-product interaction and the social, cultural, technological and economical outcomes of this interaction with the products that will be used in the near future and the conceptual/fictitious designs projected in sci-fi films.				

Learning Outputs	Terminology of Futurizm, Future Reality and Film Production Design. Methods of analysis from design perspective. Creating and developing the design perception for future-oriented conceptual products and their interactions. Developing the abilities of conceptual product and interaction design
Learning / Teaching Methods	Theoretical knowledge. Sample case analyses over film screenings. Thematic conceptual product design exercises, practical work, in class discussions, brainstorming.
Use of Computers	50%;
Course textbook and/or sources	Books LoBrutto, V., 1992. By Design: Interviews with Film Production Designers, Praeger Publishers, Connecticut. LoBrutto, V., 2002. The Filmmaker's Guide to Production Design, Allworth Press, New York. Neumann, D., 1996. Film Architecture: Set Designs from Metropolis to Blade Runner, Prestel-Varlag, Munich. Öke, E.H., 2006. Designing the Future: Construction of "Future Reality" through Production Design in Science Fiction Films, Unpublished master thesis, İstanbul Teknik Üniversitesi, İstanbul, Türkiye. Sammon, P.M., 1996. Future Noir: The Making of Blade Runner, Harper Collins Publishers, New York. Shay, D., 2000. Blade Runner The Inside Story, Cinefex Titanbooks, London. DVD: Le Voyages Dans De Lune, 2001: A Space Odyssey, Blade Runner, Total Recall, Back to the Future II, Johnny Mnemonic, Knight Rider (TV Series), 6th Day, Minority Report, I, Robot
Evaluation Method	Attendance 20% Conceptual design exercise I (Homework+presentation) 15% Conceptual design exercise II (Homework+presentation) 15% Final Project (Film Analysis + Presentation + Article) 50%
Student workload	1. Course.....36 2. Exam.....6 3. Individual Research, observation.....13 4. Homework, practical exercises..... 60 5. Online and face-to-face interview .....10 hours Total: ..... 150
Instructor	Instructor Hürsu Öke
Prepared by	Instructor Hürsu Öke, 17 December 2012.

Course Code: <b>ETB 442</b>			Course Name: <b>Protection of Design Rights</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>7</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D1</b>	<b>Required</b>		<b>None</b>	<b>2x14 weeks=28</b>
Course Content / Objective	Teaching the fundamental concepts of intellectual property law, pointing out the protection regulations of artworks, designs and brands with applications so that the students know both how to protect their designs' rights and not to fall into the status of a rights violator.				
Learning Outputs	Being aware of the points to be careful about not to fall into a status of copyright violator, know the essentials of the rights to protect their own rights and increase the awareness of copyright protection.				
Learning / Teaching Methods	Course slides, practices over jurisdictional verdicts and applications over a project				
Use of Computers	% 100 in course presentation				
Course textbook and/or sources	slides, Principals of Intellectual Property Law as the source, Registration and Protection of designs, Industrial Design Rights and books of Claim Cases and booklets and brochures of Turkish Patent Institute				
Evaluation Method	Midterm Exam 50%, final (project) 50%				
Student workload	1. Course.....26 2. Exam.....2 3. Individual Research Observation.....15 4. Homework, practical exercises.....30. 5. Online and face-to-face interview..... 2 Total: .....75				
Instructor	Instructor Advt. Sadife Karataş Kural				
Prepared by	Instructor Advt. Sadife Karataş Kural 17.January.2013				

Course Code: <b>ETB 371</b>			Course Name: <b>Yacht Design I</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>7</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>5</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D2</b>	<b>Elective</b>		<b>None</b>	<b>3x14 weeks=42</b>
Course Content / Objective	<p>1. . Introducing the fundamental principals in designing small and midsize yachts' (visual and ergonomic)</p> <p>2. Introducing the ship construction engineering terminology</p> <p>3. Introducing the production techniques of wooden, steel and composite yachts and providing the opportunity to see the production methods on site by organizing factory visits</p> <p>4. Ensuring that the students are able to design the yacht's body (part above the water level) and upper structure with the projects that they will prepare.</p> <p>Teaching studenets how to design the interiors in harmony with the exterior design</p>				
Learning Outputs	<p>Students will be able to:</p> <p>1. understand the fundamental design principals of yachts</p> <p>2. make plans, profiles and section drawings by learning the measurement units and concepts used in yachts.</p> <p>3. understand how ship construction engineers, industrial designers and interior designers work together in yacht making by doing project works</p> <p>4. learn the production process of wooden, steel and composite yachts and the different materials (both inside and outside the yacht) used during this process</p> <p>5. learn the presentation techniques of a designed yacht</p>				
Learning / Teaching Methods	Theoretical Course Lecture and hands-on Yacht design projects				
Use of Computers					
Course textbook and/or sources	<p>Edmunds, A., (1998). Designing Power And Sail, Bristol Fashion Publications, Inc.; 1 Ed edition (March 1, 1998), Enola, Pennsylvania</p> <p>Edmunds, A., (2000). Building A Fiberglass Boat, Bristol Fashion Publications, Enola, Pennsylvania.</p> <p>Spurr, Daniel. 1990. Yacht Style.</p> <p>Current yacht design magazines</p>				



Evaluation Method	1. Midterm exam evaluating the Theoretical lectures 2. Yacht design project less than a 20-meter long yacht. The layout drawings showing the yacht's profile, top and interior top view. The perspective of yacht's from front and back
Student workload	1. Course.....36 2. Exam.....6 3. Individual Research Observation.....14 4. Homework, practical exercise..... 15 5. Online and face-to-face interview..... 4 Total: .....75
Instructor	Instructor Bilgen Manzakoğlu
Prepared by	Instructor Bilgen Manzakoğlu 17.January.2013

Course Code: <b>ETB 490</b>			Course Name: <b>Graduation Project</b>		
Semester	Theoretical	Lab	Application	Credit	ECTS
<b>8</b>	<b>2</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>12</b>
Course Language	Course Type	Required / Elective		Prerequisite	Total Courses
<b>Turkish</b>	<b>D1</b>	<b>Required</b>		<b>None</b>	<b>6x14=84</b>
Course Content / Objective	Preparing a project and doing hands-on lab and workshop exercises for transportation, shipping, vehicles and other industrial products under the supervision of an instructor				
Learning Outputs	<ul style="list-style-type: none"> <li>• Developing the process and project management abilities</li> <li>• Creating original ideas</li> <li>• Developing the abilities for interdisciplinary team work</li> </ul>				
Learning / Teaching Methods	Doing contemporary and original research and analyses with universal standards besides Project-based sample case analysis, interactive data sharing and evaluation, literature research, brainstorming, sketch exercises and group works.				
Use of Computers	% 100 MSOffice programs, FreeHand, Illustrator, Photoshop, CAD programs				

Course textbook and/or sources	The Eco-Design Handbook, Young European Designers, 1000 New Designs, Innovation, Collapsibles, Domus, Industrial design, Design, Form, Scandinavian design etc (periodicals)
Evaluation Method	Criteria-based (absolute) evaluation, Midterm-jury 15% Sketching exam 15% Attendance 20% Final Jury % 50 Student's attendance, active participation in projects, researches, developments, original attitude, presentation and model making stages are evaluated by taking mutual standard or taking a certain level of performance as a criteria.
Student workload	1. Course ..... 70 hours 2. Exam ,homework, presentation..... 14 hours 3. Individual Research, observation ..... 100 hours 4. Homework..... 96 hours 5. Online and face-to-face interview .....20 hours Total: .....300 hours
Instructor	Asist. Prof. Önder Turan, Instructor Sinem Bahar Tunçelli, Instructor Cem Draşan
Prepared by	17.January.2013