COURSE INFORMATION FORM

Faculty/ Institute	Faculty of Fine Arts and Architecture
Department	Department of Industrial Design
Course Code	EUT 109
Course Title	Technical Drawing
Language	Turkish
Program	Industrial Design Undergraduate Program
Course Type	Must
Course Level	
Course ECTS	2
Prerequisites	None
Course Catalogue Description	This course includes the topics that constitute a basis for the technical drawing applications for design and manufacturing. The main objective of the course is to help students comprehend two dimensional drawings as 3D objects and develop their tehnical drawing skills for production.
Course Objectives	The aim of this course is to provide a basis for gaining technical drawing skills. The topics that are covered within the context of the course includes the necessary information on the basics of technical drawing such as line types, text types, geometric shapes, views and dimensioning and also help students to apply this knowledge to create technical drawings for design and production.
Course Learning Outcomes	At the end of this course, students are expected to understand two dimensional drawings and create technical drawings of 3D objects by hand. They are also expected to make orthographic drawings of any given solid object and give its dimensions.
Resources and References	1. Hüdayim Başak, Teknik Resim, Seçkin yayıncılık, 2009. 2. Şen, İ., Z., Özçilingir, N., Teknik Resim, Seçkin Yayıncılık, 2011.
Course Grading	**Grade Points**
Attendance	5
Laboratory	
Applications	
Field Study	
Tasks	20
Presentations	
Projects	
Seminars	
Midterms	30
Quiz	
Final	45
Total	100

Weekly Outline	**Topics**
1	The course is introduced. The list of the tools and materials that are required for the course is given. Line types and their application are explained. Compass usage is demonstrated
2	Polgon drawing is demonstrated and hand drawing exercise is given.
3	Projectional techniques and creating three view orthographic drawings from a perspective drawing are explained.
4	Dimensioning in technical drawing is explained. Techical drawings of geometrical shapes are given dimensions by using certain standards.
5	Orthographic drawing and dimensioning exercises are made.
6	Mid-term exam (comprises the topics related to the drawing of geometrical shapes by hand, orthographic views and dimensioning).
7	Three dimensional drawing techniques and the types of perspective are explained. Solidworks software is introduced. Its interface is introduced and sketch drawing in Solidworks is explained.
8	Two dimensional sketch tools and commands in Solidworks are introduced. Objects with perspective views are modelled in Solidworks.
9	Solidworks unsur oluşturma komutları anlatılır ve bu komutları içeren örnek çizimler yaptırılır. (Extrude, Extrude cut, revolve, revolve cut, loft, fillet, chamfer, plane, hole, vb.)
10	Three view technical drawings are made from 3D solid models of parts and they are given dimensions.
11	Antetli kağıt hazırlama, pdf'e dönüştürme ve çıktı alma konuları anlatılır. Katı modeli çizilen parçaların üç görnüşleri antetli kağıda çizilir, ölçülendirilir ve pdf formatına dönüştürülürek çıktı alınır.
12	General applications and exercises, different types of parts are modelled in Solidworks to fully comprehend the details and applications of technical drawing.