

ME 120.01 – ENGINEERING GRAPHICS
Spring 2010

Objective: To introduce both traditional and modern elements of engineering graphics, and an advanced computer graphics tool – SolidWorks.

Instructor: Dr. İlyas İstif
Department: Mechanical Engineering
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Office Hours: **Thursday** 13:30 – 14:00 or by appointment.
Class Hours: **Thursday** 14:00 – 16:50

Comp. Lab: LMF 115

Textbook: **1. Fundamentals of Graphics Communication** 2nd Ed. by Gary R. Bertoline, Eric N. Wiebe and Craig L. Miller, 2001, ISBN: 0 07-289201-3
2. Technical Drawing, 13/E, Frederick E. Giesecke, Alva Mitchell, Henry C. Spencer, Ivan Leroy Hill, John Thomas Dygdon, Illinois Institute of Technology James E. Novak, Illinois Institute of Technology, Shawna D. Lockhart, Montana State University, Publisher: Prentice Hall, 912 pp, 2009, ISBN-13: 9780135135273

Activities: Course activities include lectures and computer labs. The first hour of each class is usually the lecture, and the rest of the class will be the lab exercise. While basic instructions will be given in the class on the use of the computer system and the software, **much more additional efforts** are definitely necessary on students' part.

Homework and Tests:

Homework assignments will be given in class or posted in the following WEB Site: www.yildiz.edu.tr/~istif

Grading: Midterm Exam : 30%
Assignments : 30%
Final Exam : 40%

Policies: **1.** All students are required to attend all classes, and sign in each class. Each student is allowed to have two absences, and two points (2%) toward the final score will be deducted for each absence thereafter.
2. Penalty will be **strictly** applied for late submission of homework in the following manner: one week late - 20% deduction, two weeks late - 40% deduction, three or more weeks late - not accepted.
3. Written proofs must be provided if students could not attend the class or submit the homework on time due to special reasons.

Tentative Course Program

Week	Subject
1	Introduction to Engineering Graphics & Traditional Tools
2-3	Engineering Geometry
4-5	3-D Solid Modeling
6	Multiviews & Auxiliary Views
7	Pictorial Projections
8-10	Section Views
11	Dimensions and Tolerances
12	Working Drawings and Assemblies
13	Course Review
14	Midterm

Traditional Tools :

1- 0.35 (HB) and 0.5 (2B) mechanical pencils	4- Compass
2- T-square (650 mm)	5- 30/60- and 45- degrees triangles (for A3)
3- Circle templates	6- A3 paper, eraser and tape