

## ME 151 Engineering Drawing and Projection

### COURSE INFORMATION

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Lab.	
None	1	2	2	2		2

### COURSE AIM

To give the students the ability to communicate by means of Engineering Drawing and to relate the applications of drawing techniques to engineering practice.

### COURSE WEEKLY CONTENTS

- 1 Engineering Drawing tools – line types - Drawing operations (Exercises on drawing operations).
- 2 Drawing Operation Applications (Exercises on Drawing Operations).
- 3 Orthographic Projection from simple Isometric (Exercises).
- 4 Orthographic Projection from complicated Isometric (Exercises).
- 5 Orthographic Projection from Isometric with Curves and Circles (Exercises on Orthographic Projection).
- 6 Drawing notations: Dimensions and Text (Exercises on Drawing notations).
- 7 Isometric Drawing (Exercises on Isometry) / 7th week evaluation.
- 8 Isometric Drawing with curves and circles (Exercises on Isometry).
- 9 Missing view (Exercises on Missing view).
- 10 Missing view (Exercises on Missing view).
- 11 Extracting Missing view & Isometry (Exercises on Missing view & Isometry).
- 12 Additional views (Exercises on Missing view & Isometry) / 12th week evaluation.
- 13 Sectioning and Hatching (Exercises on Sectional views).
- 14 Partial Sectioning (Exercises on Sectional views).
- 15 General Revision (Exercises on Missing view, Isometry and Sectional views).

### STUDENT GRADING & ASSESSMENT

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20 Midterm	←	1 0	M A R K S		→	30
8 to 12	←		2 0	M A R K S		→	20
13 to 15	←		1 0	M A R K S		→	10
16 or 17	40 Final						40
Total	Exams	Assign.	Quizzes	Reports	Present.	Lab.	100

### REFERENCES

- Textbook S. Bogolyulov A. Voinor, "Engineering Drawing", MIR Publishers, Latest Edition.
- Other
- Thomas E., French, "Engineering Drawing & Graphic Techniques", McGraw-Hill Co., Latest Edition.
  - Notes prepared and edited (from several related text books, standards and codes in use) to cover the syllabus