

1.2 Semester 2

ME 151 Engineering Drawing and Projection

COURSE INFORMATION

| Prerequisites | Academic Year & Level | | Teaching Methods | | | Credit Hrs. |
|---------------|-----------------------|----------|------------------|----------|-----------|-------------|
| | Year | Semester | Lecture | Tutorial | Laborator | |
| None | 1 | 2 | 2 | 2 | 0 | 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 on Orthographic Projection).
- 4 Orthographic Projection from complicated Isometric (Exercises on Orthographic Projection).
- 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 | ← | 10 | MARKS | | → | 30 |
| To be freely distributed among possible assessments | | | | | | | |
| 8 to 12 | ← | | 20 | MARKS | | → | 20 |
| 13 to 15 | ← | | 10 | MARKS | | → | 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.
- Other** • Thomas E., French, "Engineering Drawing & Graphic Techniques", McGraw-Hill Co., Latest Edition.