



Subject Code: 01ME0103

Subject Name: Engineering Drawing

B.Tech. Sem- II

Objective: Engineering Drawing is an effective language of engineers. It is the foundation block which strengthens the engineering & technological structure. Moreover, it is the transmitting link between ideas and realization.

Credits Earned: 4 Credits

Pre-requisite of course: Zeal to learn the subject.

Teaching and Examination Scheme

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE (E)	IA	CSE	Viva (V)	Term work (TW)	
2	0	4	4	50	30	20	25	25	150

References Book:

1. Engineering Graphics by Ramdevsinh Jhala, Tata McGraw Hill, New Delhi



2. A Text Book of Engineering Graphics by P.J.Shah S.Chand & Company Ltd., New Delhi
3. Elementary Engineering Drawing by N.D.Bhatt Charotar Publishing House, Anand
4. A text book of Engineering Drawing by R.K.Dhawan, S.Chand & Company Ltd., New Delhi
5. A text book of Engineering Drawing by P.S.Gill, S.K. Kataria & sons, Delhi

Course Outcomes: After completion of this course, student will be able to

1. To know and understand the conventions and the methods of engineering drawing.
2. Interpret engineering drawings using fundamental technical mathematics.
3. Construct basic and intermediate geometry.
4. To improve their visualization skills so that they can apply these skills in developing new products.
5. To improve their technical communication skill in the form of communicative drawings.
6. Comprehend the theory of projection

Suggested Theory distribution:

The suggested theory distribution as per Bloom's taxonomy is as per follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process.

Distribution of Theory for course delivery and evaluation					
Remember	Understand	Apply	Analyse	Evaluate	Create
20%	20%	30%	15%	10%	5%

Suggested List of Experiments:

Students are required to prepare drawing sheets on the following topics.

Minimum three problems must be given for sheet number 3 to 8.



1. Practice sheet (which includes dimensioning methods, different types of line, construction of different polygon, divide the line and angle in parts, use of stencil,)
2. Plane scale and diagonal scale
3. Engineering curves
4. Projection of line and Projection of plane (minimum two problems on each)
5. Orthographic projection
6. Isometric projection

Instructional Method:

- a. The course delivery method will depend upon the requirement of content and need of students. The teacher in addition to conventional teaching method by black board, may also use any of tools such as demonstration, role play, Quiz, brainstorming
- b. The internal evaluation will be done on the basis of continuous evaluation of students in the laboratory and class-room.
- c. Practical examination will be conducted at the end of semester for evaluation of performance of students in laboratory.
- d. Students will use supplementary resources such as online videos, NPTEL videos, e-courses