Semester:	02				
Course Code:	ME1020				
Course Name:	Engineering drawing				
Credit Value:	2 (Notional hours: 100)				
Pre-requisites:	None				
Core/Optional	Core				
Hourly Breakdown	**Lecture hrs.**	**Tutorial hrs.**	**Practical class hrs.**	**Assignments hrs.**	**Independent Learning Assessment hrs.**
	9	-	-	42	49

Course Aim: To develop visualization skills of three dimensional objects by enabling the students to comprehend and produce engineering drawings, engineering graphics and freehand sketches.

Intended Learning Outcomes:

On successful completion of the course, the students should be able to

- **Interpret** and produce a simple engineering drawing in both First and Third angle orthographic projections and translate it to a three-dimensional virtual image to produce freehand sketches of the object
- **Solve** problems on Engineering Graphics
- **Produce** an engineering drawing using computer aided drafting.

Course Content:*(Only main topics & subtopics)*

- **Introduction to Engineering Drawing**
- **Freehand sketching of isometric views:** Sketching of objects by direct observation and by interpreting the object from an orthographic projection. Ability to form a virtual image and produce a sketch from a given viewing direction.
- **Geometrical Constructions**
- **Orthographic projection:** First Angle and Third Angle projection. Standards in Engineering Drawing Computer Aided Drafting
- **Engineering Graphics:** Isometric projections, Conic Sections, Intersection of Surfaces and Developments, Computer Aided Drafting

Teaching/Learning Methods:

Lectures and in-class assignments

Assessment Strategy:			
Continuous Assessment 70 %	Final Assessment 30 %		
Details: quizzes%, % Mid Semester Examination%, 20% other% (specify) Assignments 30%, In-class activities (coursework) ……20 %	Theory (%) 30	Practical (%) -	Other (%) (specify)

Recommended Reading:

- Abbott W., Practical Geometry and Engineering Graphics, 7th Edition, 1963.
- L. P. Singh, Harwinder Singh, Engineering Drawing - Principles and Applications, Cambridge University Press, 2021.