DEPARTMENT OF CIVIL ENGINEERING

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI - 620 015

COURSE PLAN				
Course Title	**Engineering Graphics**			
Course Code	MEIR12	No. of credits	03	
Department	Civil Engineering Ist year / (Section - B)	**Faculty**	Mrs. R. Arachelvi	
Pre-requisites Course Code	Nil			
Course Coordinator(s) (if, applicable)				
Contact details	chelvi@nitt.edu, 9150005044			
Course Type	Core course	✓	Elective course	

Course overview

The student is expected to possess the efficient drafting skill depending on the operational function in order to perform day to day activity by providing neat structure of the industrial drawing.

Course objectives

- To enable the students to understand various concepts like dimensioning, conventions, and standards followed by the engineers.
- To practise construction methods of various geometric curves.
- To understand orthographic Projection and orthographic views.
- To construct isometric views for corresponding orthographic views.

Course outcome

- Students would be proficient in using the engineering drawing apparatus, materials and techniques.
- The students would be matured to visualize the engineering components by solving many components used in the industry.

COURSE TEACHING AND LEARNING ACTIVITIES			
S. No.	**Week**	**Topics**	**Mode of Delivery**
1.	2nd Week of August	Introduction - Drawing standard - BIS, dimensioning, type of lines, scaling-conventions.	Chalk - board, PPT, and practical sessions
2.	4th Week of August	Lettering practice.	
3.	5th Week of August	Geometric construction	
4.	1st Week of September	Conic sections	
5.	2nd Week of September	Introduction to orthographic projections	
6.	3rd Week of September	Projection of points, lines and planes	
7.	4th Week of September	Projection of simple solids	
8.	1st Week of October	Sectioning of solids	
9.	2nd Week of October	Intersection of surfaces	
10.	4thWeek of October	Development of surfaces	
11.	5th Week of October	Isometric and prospective projections	
12.	2nd Week of November	Intro to CAD.	

COURSE ASSESSMENT METHODS				
S.No.	**Mode of Assessment**	**Week/Date**	**Duration**	**% Weightage**
1.	Continuous assessment	Every week	4 hours	**60**
2.	End semester(written)	Last week of November (or) 1st Week of December	1hour	15
3.	End Semester (practical)	Last week of November (or) 1st Week of December	2 hours	25
			Total	100

ESSENTIAL READINGS : Textbooks, reference books and journals.

Text Books

1. Bhatt, N. D. and Panchal, V.M., 'Engineering Drawing', Pub.: Charotar Publishing House, 2010.
2. Natarajan, K. V., 'A text book of Engineering Graphics', Pub.: Dhanalakshmi Publishers, Chennai, 2006.

Reference Books

1. Venugopal, K. and Prabhu Raja, V., 'Engineering Drawing and Graphics + AutoCAD', Pub.: New Age International, 2009.
2. Jolhe, D. A., 'Engineering drawing', Pub.: Tata McGraw Hill, 2008
3. Shah, M. B. and Rana, B. C., 'Engineering Drawing', Pub.: Pearson Education, 2009.
4. Trymbaka Murthy, S., 'Computer Aided Engineering Drawing', Pub.: I.K. International Publishing House, 2009.

COURSE EXIT SURVEY
(mention the ways in which the feedback about the course is assessed and indicate the attainment also)

1. Class committee meetings.
2. Online - Feedback forms submission through MIS.

COURSE POLICY (including plagiarism, academic honesty, attendance, etc.)

- Minimum 75% attendance is compulsory for attending the final examination.
- Students with less than 60% attendance will be awarded "F" grade and directed to REDO the course.
- There is no formative assessment for this course.

ADDITIONAL COURSE INFORMATION

- The Course Coordinator is available for consultation during office hours.
- Queries may also be emailed to the Course Coordinator at chelvi@nitt.edu

FOR SENATE'S CONSIDERATION

Course Faculty: Mrs.R.Arachelvi **CC-Chair** _____ **HOD**