

**DEPARTMENT OF PRODUCTION ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-620015.**

COURSE OUTLINE				
Course Title	Engineering Graphics			
Course Code	MEIR12	No. of Credits	03	
Department	Production Engineering			
Course Faculty	Mr. S.Mohan (+91-9655251150), Mr.Pranith kumar Reddy (+91 9998809151), Mr. Arun Prasad (+91-9043003333), Mr. V. Chakkravarthy(+91-9677747673).			
Course Type	Lab course	✓	Elective course	
Course overview				
<ul style="list-style-type: none"> ✓ Fundamental of Drawing and Standards. ✓ Geometrical Constructions and conic sections. ✓ Orthographic projections of points, lines, planes and solids. ✓ Sections, Intersections and developments of solids. ✓ Isometric and Perspective Projections. 				
Course objectives				
<ul style="list-style-type: none"> ✓ Irrespective of engineering discipline, it has become mandatory to know the basics of Engineering graphics. The student is expected to possess the efficient drafting skill depending on the operational function in order to perform day to day activity. ✓ Provide neat structure of industrial drawing ✓ Enables the knowledge about position of the component and its forms Interpretation of technical graphics assemblies 				

COURSE TEACHING AND LEARNING ACTIVITIES

S. No	Week	Date	Topic	Mode of Delivery
1.	1 st Week	-	Conic Sections	Theoretical(C &T), Practical
2.	2 nd Week	-	Cycloids	
3.	3 rd Week	-	Projection of Points	
4.	4 th Week	-	Projection of Lines	
5.	5 th Week	-	Projection of Planes	
6.	6 th Week	-	Projection of Solids	
7.	7 th Week	-	Sections of solids and Development of surfaces	
8.	8 th Week	-	Isometric Projections	

COURSE ASSESSMENT METHODS

S.No.	Mode of Assessment	Syllabus	Duration	% Weightage
1	Experiment(1-8)	-	-	75
2	Final Examination	-	-	25
Total Assessment				100

Essential 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.
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

- Course exit survey will be collected at the end of the semester before the start of semester examination through online . student can log in their MIS account to give the feedback . Mid-semester anonymous feedback shall be collected to improve the teaching –learning process. apart from students can share feedback during class committee meetings.

Course policy

- Attending classes regularly and continuously is required for the students to understand the concepts.
- Strict academic disciplines have to be maintained inside the class room.

Attendance:

Attendance will taken in every class . if student is not able to maintain 75% attendance, he/she is required to write the compensation assessment and obtain a minimum of 50% marks to become eligible to write the final exam.

Additional Information:

The faculty is available for consultation at times as per the intimation given by the faculty. Queries may also be emailed to the course faculty directly at smoha@nitt.edu

For Approval:**Course Faculty****CC Chairperson****HOD**