

DEPARTMENT OF PRODUCTION ENGINEERING

	COURSE PL	AN – PART I	
Name of the programme and specialization	B.Tech. II Semester -		tronics Engineering
Course Title	Engineering Graphic	s	VS T
Course Code	MEIR12	No. of Credits	3
Course Code of Pre- requisite subject(s)		Nil	
Session	Jan 2023	Section (if, applicable)	1st year /A
Name of Faculty	Dr. Pintu Kumar	Department	Production Engineering
Official Email	pintu@nitt.edu	Telephone No.	6202431305
Name of Course Coordinator(s) (if, applicable)			
Official E-mail		Telephone No.	
Course Type (please tick appropriately)	Core course Elective course		
Orthographic projection	standard - BIS, dimension	hic projection, drawin	flines, scaling- conventions.
	ic views - Orthographic pro of lines parallel and inclinated by the planes.		nes Orthographic projection
Projections of simple solution one and both planes.	ids - axis perpendicular to	HP, axis perpendicula	ar to VP and axis inclined to
Sectioning of solids Section	on planes perpendicular to	one plane and paralle	el or inclined to other plane.
Intersection of surfaces I intersection of prisms.			A CONTRACTOR OF THE PROPERTY O
Development of surfaces	Development of prisms, p	vramids and cylindric	cal & conical surfaces.
	e projection: Isometric pr	ojection and isometric	views of different planes
 Ken Morling, Geo Jolhe, D. A., Engir Shah, M. B. and R 	metric and Engineering I neering drawing, Tata Mo ana, B. C., Engineering I	Orawing, 3rd Edition, cGraw Hill, 2008 Orawing, Pearson Ed	*



COURSE OBJECTIVES

- Irrespective of engineering discipline, it has become mandatory to know the basics of Engineering Graphics. The student is expected to possess efficient drafting skills depending on the operational function in order to perform the day-to-day activity.
- 2. Provide a neat structure of the industrial drawing.
- Enables knowledge about the position of the component and its forms Interpretation of technical graphics assemblies.
- 4. Preparation of machine components and related parts.

MAPPING OF COs with POs		
Course Outcomes	Program Outcomes (PO) (Enter Numbers only)	
Visualize objects in 3D space	1, 4, 5	
Solving problems to illustrate concepts	1, 5, 12	
3. Ability to draft and present engineering designs & ideas	1, 6, 10, 12	

COURSE PLAN - PART II

COURSE OVERVIEW

- Fundamental of Drawings and Standards.
- Geometrical Constructions of basic shapes and conic sections.
- Orthographic views and projections of points, lines, planes, and solids.
- · Sections, Intersections, and Developments of solids.
- · Isometric and Perspective projections.

COURSE TEACHING AND LEARNING ACTIVITIES

S.No	Week/Contact Hours	Topic	Mode of Delivery
1.	Week 1	Introduction to Engineering Graphics,	PPT, Chalk and Talk
2.	Week 2	Lettering and dimensions	PPT, Chalk and Talk
3.	Week 3	Construction of basic geometric shapes	PPT, Chalk and Talk
4.	Week 4	Orthographic projections and orthographic view of objects from their isometric views	PPT, Chalk and Talk
5.	Week 5	Projection of points, Projection of lines	PPT, Chalk and Talk
6.	Week 6	Projections of solids	PPT, Chalk and Talk
7.	Week 7	Section of solids- Parallel and perpendicular planes	PPT, Chalk and Talk
8.	Week 8	Section of solid- Inclined planes, Intersection of surfaces	PPT, Chalk and Talk
9.	Week 9	Development of surfaces- Cylinder	PPT, Chalk and Talk



10.	Week 10	Assignment/Viva-voce	-
11.	Week 11	Development of surfaces- Pyramid and prism	PPT, Chalk and Talk
12.	Week 12	Isometric projection	PPT, Chalk and Talk
13.	Week 13	Perspective projection	PPT, Chalk and Talk
14.	3 hours	End Semester Examination and Viva-voce	

COURSE ASSESSMENT METHODS

S.No	Mode of Assessment	Week	Duration	% Weightage
i	Continuous Assessment	Every week	34	60
2	Assignment/Viva-voce	End of Week 8	30 minutes	10
3	End Semester Examination	In Week 16	3 Hours	30

COURSE EXIT SURVEY

Feedback from the students during class committee meetings End semester feedback on course outcomes

COURSE POLICY (including compensation assessment to be specified)

MODE OF CORRESPONDENCE

Students can contact through email or MS Teams for clarifying doubts.

COMPENSATION ASSESSMENT POLICY

If any student is not able to attend any of the class practice session due to genuine reason, student is permitted to attend one compensation class practice session before end semester exam.

Attendance Policy (A uniform attendance policy as specified below shall be followed)

- At least 75% attendance in each course is mandatory.
- A maximum of 10% shall be allowed under On Duty (OD) category.
- Students with less than 65% of attendance shall be prevented from writing the final assessment and shall be awarded 'V' grade.



Academic Dishonesty & Plagiarism

- Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.
- Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.
- The departmental disciplinary committee including the course faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office.

ADDITIONAL INFORMATION, IF ANY			
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			XV = 1
FOR APPROVAL			
Dr. Pintu Kumar Assistant Professor Production Engg Dept Course Faculty	2. Cay 22/03/23 5. S. KAYALVIZHI nairperson	HOD/	geh 30/02



Guidelines

- a) The number of assessments for any theory course shall range from 4 to 6.
- b) Every theory course shall have a final assessment on the entire syllabus with at least 30% weightage.
- c) One compensation assessment for absentees in assessments (other than final assessment) is mandatory. Only genuine cases of absence shall be considered.
- d) The passing minimum shall be as per the regulations.

B.Tech. Admitted in			P.G.	
2018	2017	2016	2015	
35% or (Clas		(Peak/3) or (C whichever is lov	lass Average/2) wer	40%

- e) Attendance policy and the policy on academic dishonesty & plagiarism by students are uniform for all the courses.
- Absolute grading policy shall be incorporated if the number of students per course is less than 10.
- g) Necessary care shall be taken to ensure that the course plan is reasonable and is objective.