

## DEPARTMENT OF PRODUCTION ENGINEERING

	COURSE PLA	AN - PART I	
Name of the programme and specialization	B.Tech. II Semester-E	lectrical and Electr	onics Engineering
Course Title	Engineering Graphics		market in a second
Course Code	MEIR12	No. of Credits	3
Course Code of Pre- requisite subject(s)		NIL	
Session	January 2023	Section (if, applicable)	В
Name of Faculty	Amit Kumar Hansda Umang Dubey	Department	Production Engineering
Official Email	414121051@nitt.edu 414121053@nitt.edu	Telephone No.	7003892061 8765930437
Name of Course Coordinator(s) (if, applicable)			
Official E-mail		Telephone No.	
Course Type (please tick appropriately)	Core course	Elective co	ourse
of objects from their iso quadrants.  Orthographic projection projection of planes incl Projections of simple inclined to one or both p Sectioning of solids: Sother plane.	Section planes perpendicues: Intersection of cylinder	ic projections of poir clined to one or both s. r to HP, axis perpend lar to one plane and	nts lying in four planes Orthographic dicular to VP and axis parallel or inclined to
surfaces. <b>Isometric and</b> different planes and	ces: Development of prism d perspective projection on to perspective projection	: Isometric projection	
1. Bhatt, N. D. and Pand	chal, V.M, Engineering Dra ric and Engineering Drawi		

3. Jolhe, D. A., Engineering drawing, Tata McGraw Hill, 2008



- 4. Shah, M. B. and Rana, B. C., Engineering Drawing, Pearson Education, 2009
- K.V. Natarajan, A text book of Engineering Graphics, Dhanalakshmi Publishers, Chennai, 2006.

### COURSE OBJECTIVES

- 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.
- 2. Provide neat structure of industrial drawing.
- Enables the knowledge about 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	Programme Outcomes (PO) (Enter Numbers only)
Visualize objects in 3D space	1,4,5
2. 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 Development 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



2	Continuous Assess Assignment/Viva-	SSC00 TODAY	Every week End of Week 8	30 minut	oc.	10
S.No.	Mode of Assessr	27-2201/07/	Week/Date	Duratio	n	% Weightage
	E ASSESSMENT MET					
14	3 hours	End	End Semester Examination and Viva-voce			
13	Week 13		Perspective projection P		PPT	, Chalk and Talk
12.	Week 12		Isometric projection		PPT	, Chalk and Talk
11.	Week 11	Deve	Development of surfaces- Pyramid and prism		PPT	, Chalk and Talk
10.	Week 10		Assignment/Viva-voice		\$ = <u>\$</u>	
9.	Week 9	Development of surfaces-Cylinder P		PPT	PPT, Chalk and Talk	
8.	Week 8	Section of solids- Inclined planes and intersection of surfaces		PPT, Chalk and Talk		
7.	. Week 7	Section of solids- Parallel and perpendicular planes		PPT	Γ, Chalk and Talk	
6.	Week 6	Projection of solids		PP1	Γ, Chalk and Talk	
5.	Week 5	Orthographic projections and orthographic view of objects from their isometric views		PPT, Chalk and Talk		
4.	Week 4	Projection of points, Projection of lines		PT, Chalk and Talk		



3	End Semester Examination	In Week 16	3 hours	30
COU	RSE EXIT SURVEY			11 (2
	pack from the students during class emester feedback on course outcor		ıs	
COUF	RSE POLICY (including compensati	ion assessment to b	oe specified)	
Stude COMI If any	E OF CORRESPONDENCE onto can contact through emails or Memory of the student is not able to attend any of the permitted to attend one compensation.	CY the class practice s	sessions due to ge	
7.1	NDANCE POLICY (A uniform attended of the state of the sta	574 VO 100 GG 25781 415		be followed)
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>	Students with less than 65% of assessment and shall be awarded		e prevented from	writing the fina
ACAD	EMIC DISHONESTY & PLAGIARI	SM		
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A	Zero mark to be awarded for the students get the same penalty of a		ppying morn unou	ier student, botr
		zero mark. ommittee including embers shall verify	the course facult	y member, PAC malpractice and
	The departmental disciplinary co- chairperson and the HoD, as me award the punishment if the stude	zero mark. ommittee including embers shall verify ent is found guilty. T	the course facult the facts of the he report shall be	y member, PAC malpractice and submitted to the



FOR APPROVAL	
Amit Kumar Hansda	
Research Scholar	
Production Engineering Department	
Umang Dubey	
Research Scholar	
Production Engineering Department	a 1 un
Course Faculty CC- Chairperson  Amit Kunnar Hanson Dr. S. KAYALVIZEI)  LOLLDET)	HOD 30 03 23



### 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 (Class		(Peak/3) or (Class Average/2) whichever is lower		40%

- e) Attendance policy and the policy on academic dishonesty & plagiarism by students are uniform for all the courses.
- f) 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.