Scheme of Teaching and Examination for 1st Semester of 3 Years Diploma in Engineering (All Branches except Non Tech

Duration of Semester: 14 Weeks
Student Contact Hours: 36 Hrs
Total Marks: 800

Total Marks : Effective from: 2017 -18 Session

	Pass Marks	in Subjects			40	40	40	40	20	20	20	20	25	25	25	25	- 500
	Pass	Marks	Final / Ext	Exam	26	56	26	56	. 13	13	13	13	,	•			
Examination Scheme	Internal	Assessment			20	20	20	20	10	10	10	10	20	20	20	20	
Examinati	Final Exam/	committee marks			80	80	80	80	40	40	40	40	30	30	30	30	
	Full	Marks of	Subject		100	100	100	100	50	50	20	20	20	20	20	20	
	Hours	of	Exam		3	3	3	3	4	3	4	4					
g. 4	,	Ь				١.			,	•	2	2	4	2	2	4	16
Teaching		Т			٠	1			1			١	•	·	٠,	-	1
J.	,	1			3	3	က	က	2	2							16
Subject	33/05/0				Theory	Theory	Theory	Theory	Theory	Theory	Practical	Practical	Sessional	Sessional	Sessional	Sessional	er week:
Subject	Code				101	102	103	104	105	106	107	108	109	110	111	112	eaching
Name of Subject					Communication Skill - I	Engineering Math – I	Engineering Physics - I	Engineering Chemistry - I	Engineering Graphics - I Th	Fundamental of Computer	Engineering Physics Lab - I	Engineering Chemistry Lab- I	Engineering Graphics - I SS	Communication Skill I	Fundamental of Computer - I	Workshop - I	Total Hours of Teaching per week:
7	No.		4		1.	2.	3.	4	5.	9	7.	89	6	10	_	12.	

Sessional Tutorial Practical T Lecture, Theory Total Marks:

Practical

1. Period of Class hours should be of 1 hrs duration as per AICTE norms.

Note:

2. Remaining Hrs every week has been marked for students Library and Student Centered Activities.

3. Drawing / Graphics / Practical / Sessional examinations will be held at parent institution.

4. Board will depute examiner for Practical examination.

records and hold viva of the examinee for 60 % marks allotted to the subject. Marks for remaining 40 % will be provided by the Faculty 5. Regarding sessional examination the parent institution will form a three member committee and this committee will examine the sessional concerned on the basis of evaluation of each job / work throughout the semester.

Subject: Engg. Graphics-I Marks distribution scheme (100 Mosks) Engineering Giraphics Sessional (50 Morks) Theory (50 Marks) Committee Internal External marks Interal Marks marks (30 Marks) marks (20 Marks) (AOMORKI) (10 Morks) Pass Marks 13 Paus marks in subject 25 Pass Marks in Subject Theory Internal (10 Morks) -> Snap test I & I (5 moveks) L> Assignment I& I (5 marks) Sessional Internal (20 Marks) > Sheets (10 Monds) L> Attendance (10 Mariks) Sessional -> Viva (5 moules) -> Sheet (5 mould) > Attendance (5 marks) -> Assignment (5 moviks) > Snaptest (5 moves)

Semster: 1st

Subject code: 105.

Course Name: 03 Years Diploma in Engineering

Semester : First

Subject Title: Engineering Graphics-I

Subject Code: 105

Teaching and Examination Scheme:

Teaching Scheme					Examina	tion Scheme		
L	T	P	Full Marks.	External · Exam Marks	Internal Exam Marks	External Pas Marks	Total Pass Marks	Duration of External Exams
02	0	4	50+50	40+30	10+20	13 TH	20+25	4 Hrs (TH)

NOTE:

Internal marks for theory will be allotted on the basis of two snap tests and 2 assignment of equal marks to be conducted by the faculty teaching the subject.

RATIONALE:

Normally Graphical representation are used for expressing intents and contents. Engineering Graphics is the language of engineers. The concepts of Engineering Graphics are used to develop, express the ideas, and conveying the instructions which are used to carry out jobs in the field Engineering. The course illustrates the techniques of graphics in actual practice. This preliminary course aims at building a foundation for the further course in drawing and other allied subjects.

OBJECTIVES:

The student should be able to:-

- 1) Draw different engineering curves and know their applications.
- 2) Draw orthographic projections of different objects.
- 3) Visualize three dimensional objects and draw Isometric Projections.
- 4) Use the techniques and able to interpret the drawing in Engineering field.
- 5) Use computer aided drafting packages.

				No. of Hr.		
Chapter		Name of Topic	No. of Sheet	Theory	Practical	
01.	1.1- 1.2-	Drawing Instruments and sheet layout Letters and Numbers as per BIS: SP46-2003	02	01	04	
	1.3-	Scale (Plane and diagonal scale)	4			

44.545.55					
2.1- 02 2.2- 2.3-		Curves and Conic Section To draw ellipse by directrix and arc of circle method To draw parabola by directrix and rectangle method To draw hyperbola by rectangle and directrix method.	01	02	04
03	Introduction to orthographic projection. Projection of point on principal, auxiliary and profile planes. Idea of shortest distance.				04
04	4.1- 4.2- 4.3-	Projection of straight line on principal plane in the following cases. Parallel to both H.P and V.P Inclined to one plane and parallel to other plane. Inclined to both plane.	01	02	04
05	5.1-	Projection of different simple shapes eg. Circle, Triangle, Rectangle, Pentagon, & Hexagon on principal plane (Inclined to one plane and to both planes)	01	02	04
06	Projection of simple solid. 6.1- Projection of Prism, Pyramid, Cone,		01	02	04
07	7.1-	Section of simple solids with true shape of sectioned portion. Development of solid surfaces eg. Prism, Cylinder, Cone, Pyramid and Cubes.	01	02	04
08	8.1- Isometric Scale and their use in		01	02	04
09	9.1-	Intersection of solids. Curves of intersection of the surfaces of the solids in the following case; a. Prism with Prism b. Cylinder with cylinder c. Prism with cylinder d. Cylinder with cone with different axis.	01	02	04

Izometric: Box, cylinder, cone, prism, pyramid, frustum (Prizm, Pyramid)

10	10.1-	Prospective Projection	01	02	04
11	11.1-	AutoCAD Basics, Layers, multi-layer images, graphic interfaces, different views to be drawn.	03	10	16
		Total-	14	28	56

Learning Resources:

a. Book-

Sl. No.	Author	Title	Publication		
1.	N.D.Bhatt	Engineering Drawing	Charotkar Publishing House		
2.	R.K.Dhawan	Engineering Drawing	S.Chand Co.		
3.	K.R.Mohan	Engineering Graphics	Dhanpat Rai & Publication Co.		
4.	P.J.Shah	Engineering Drawing			
5.	P.S.Gill	Engineering Drawing			
6.		Mastering AutoCAD	BPB Publication		