

Shantilal Shah Engineering College Bhavnagar

Mechanical Engineering Department

Sub Name: Engineering Graphics & Design

Sub Code: 3110013

Academic Year: 2021-22 Sem.2 (For all Branch Remedial students)

Syllabus for Remedial Progressive Assessment Test

Date of Exam.08/07/2022

Time of Exam. : 11:00 am to 12:15 pm

Topic No.	Content	Weightage %	Contribution to Course Outcome	% Distribution of Theory Marks
1.	Introduction to Engineering Graphics: Drawing instruments and accessories, BIS – SP 46. Use of plane scales, Diagonal Scales and RF	20%	CO-1 & CO-2	R– 25 U -30 A -30 N -05 E -05 C -05
2.	Loci of Points: Path of the points moving on Simple mechanisms, Slider crank mechanism, Four bar mechanism		CO-2	
3.	Engineering Curves: Classification and application of Engineering Curves, Construction of Conics, Cycloidal Curves, Involute and Spirals along with normal and tangent to each curve		CO-2	
4.	Projections of Points and Lines: Introduction to principal planes of projections, Projections of the points located in same quadrant and different quadrants, Projections of line with its inclination to one reference plane and with two reference planes. True length and inclination with the reference planes	20%	CO-3	
5.	Projections of Planes: Projections of planes (polygons, circle and ellipse) with its inclination to one reference plane and with two reference planes, Concept of auxiliary plane method for projections of the plane	20%	CO-3	
6.	Development of Surfaces:	10%	CO-4	
7.	Orthographic Projections: Fundamental of projection along with classification, Projections from the pictorial view of the object on the principal planes for view from front, top and sides using first angle projection method and third angle projection method, full sectional view	20%	CO-4 & CO-5	
8.	Computer Aided Drawing: Intro. to AutoCAD, Basic commands for 2D drg. like: Line, Circle, Polyline, Rectangle, Hatch, Fillet, Chamfer, Trim, Extend, Offset, Dim style, etc..	10%	CO-6	

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create

Subject Coordinator
Dr. R K Jani