

Shantilal Shah Engineering College Bhavnagar
Mechanical Engineering Department

Sub Name: Engineering Graphics & Design

Sub Code: 3110013

Academic Year: 2022-23 Sem.1 (IT,Elec.,IC)(Odd Semester)

Syllabus for Progressive Assessment Test

Exam. Dec. 2022

Total Marks :20

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 Representative Fraction	40%	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	25%	CO-3	
5.	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	35%	CO-4 & CO-5	

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

Subject Coordinator

Dr. R K Jani