FACULTY OF SCIENCE AND HUMANITIES

B.Sc. Semester-II

In Effect from Academic Year 2021-22

Subject Code:2SC1000224	Subject Title: Business Mathematics-II
Course Type: Subject Elective	

Course Objective:

This course is designed to enable students to acquire the understanding the application of Co-ordinate Geometry and Reduction formula.

Teaching scheme (hours) per week		Credit			Theory Marks		Practical Marks		Total
Theory	Practical	Theory	Practical	Total	Uni. Assessment	Cont. Assessment	Uni. Assessment	Cont. Assessment	
2	--	2	--	2	35	15	--	--	50

Subject Contents			
Unit No.	Topic	Total Hours	Weight (%)
1	**Co-ordinate Geometry:** Co-ordinate of a point, slope, and intercepts of a line joining two points, equation of a straight line, Derive the different forms of equation of a straight line. $y = mx + c$ | $y - y_1 = m(x - x_1)$ $\frac{y - y_1}{y_1 - y_2} = \frac{x - x_1}{x_1 - x_2}$ | $\frac{x}{a} + \frac{y}{b} = 1$	15	25
2	**Integration:** Reduction formula: $\int_0^{\frac{\pi}{2}} sin^n\theta\, d\theta, \int_0^{\frac{\pi}{2}} cos^n\theta\, d\theta, \int_0^{\frac{\pi}{2}} sin^m\theta\, cos^n\theta\, d\theta, \quad m, n \in N.$	15	25

Course Outcome:

- After successfully completion of the course, the student will be able to …
- Know about the Co-ordinate Geometry.
- Understanding the application of Reduction formula.

List of References:

1) Business Statistics, by Sudhir Prakashan, Ahmedabad.
2) Hooda R.P.: Statistics for Business and Economics, Macmillan, New Delhi.
3) Levin and Rubin: Statistics of Management, Prentice-Hall of India, New Delhi.
4) Mathematics, by Nirav Prakashan, Ahmedabad.