

Semester	IV			
Course	SKILL ENHANCEMENT			
Paper Code	S2EC230411T			
Paper Title	DATA ANALYSIS			
No. of Credits	3 credits			
Theory/Practical/Composite	Theory			
Minimum No. of preparatory hours per week a student has to devote	3			
Learning Outcomes	<ol style="list-style-type: none"> 1. Differentiate between primary and secondary data and understand appropriate methods for collecting primary data. 2. Explain the concepts of population and sample and apply sample selection techniques in data collection. 3. Classify and analyse different types of data, including variables and attributes, using frequency distribution and effective data presentation methods. 4. Identify components of time series data and apply curve fitting techniques to uncover patterns and trends. 5. Interpret data insights from organized data presentations and time series analysis to support data-driven decision-making. 			
Syllabus	<p>Module 1 (20 marks)</p> <ol style="list-style-type: none"> 1. Primary data 2. Secondary data 3. Collection of primary data 4. Population versus sample surveys 5. Sample selection 6. Variables and attributes, Frequency Distribution, Presentation of data <p>Number of Classes per week:2</p> <p>Module 2(15 marks) Components of time series, Curve fitting</p> <p>Number of Classes per week:1</p>			
Reading	<ol style="list-style-type: none"> 1. A.M. Goon, M.K. Gupta, B. Dasgupta <i>Fundamentals of Statistics</i>, Volume 1, World Press Private Ltd (2013) 2. R.J. Freund & W.J. Wilson, <i>Statistical Methods</i>, Academic Publications (2003) 3. L.C. Hamilton, <i>Modern Data Analysis: A First Course in Applied Statistics</i>, Brooks/Cole (1998) 4. K.W. Elifson, <i>Fundamentals of Social Statistics</i>, Mc Graw Hill Inc, US (1990) 			
Evaluation	Continuous Internal Assessment: 15 marks End- Semester Theory Examination: 35 marks			
Paper Structure for Semester Examinations	Module	No. of Questions to be Answered	No. of Alternatives	Marks
	Module 1	2	3	10 x 2 = 20
	Module 2	2	3	7.5 x 2 = 15
	Total			35