PDEA'S

MamasahebMohol College, PaudRoad, Pune – 38

Computer Science Department

Course Name:CSST 111:Descriptive Statistics I, SEMESTER- I, PAPER I-(2 Credits, 40 lectures)

Course Outcomes: (CO 111)

Learning Outcomes	**Teaching learning strategies /Activities**	**Assessment tasks/tools**
Students will be able **CO111.1** To understand basic tools and methods required for data analysis.	Lecture method, Problem solving sessions,	Assignment ,TestExam
CO111.2 To understand graphical methods for data representation.	Lecture method	Assignment ,Test Exam
CO111.3 Apply statistical methods in the field of data mining.	Lecture method , problem solving sessions	Test Exam
CO111.4 To know concepts of independence and association of attributes.	Lecture method	TestExam

Course Specific Outcomes (CSO): Descriptive Statistics I

Course: Descriptive Statistics I	**Course Specific Outcomes CSO**	**Methodology**	**Reference Book**	**No.of Lectures**
Data condensation and Graphical methods: histogram, stem and leaf chart,Ogives.	To understand basic terms about the statistics. To understand graphical methods for data representation	Constructive	Fundamentals of Applied Statistics Gupta S. C. and Kapoor V. K.	9
Review/Revision of DescriptiveStatistics: Measures of Central tendency, Measures of Dispersion	To understand basic concept about central tendency. To understand basic concept about dispersion. To develop knowledge about partition values.	Constructive	Fundamentals of Applied Statistics Gupta S. C. and Kapoor V. K.	14
Moments, Skewness and Kurtosis: Raw and Central moments,Relation between raw and central moments upto fourth order, **of** Measures of skewness-Pearson's measure, Bowley's measure, $\beta 1$, $\gamma 1$. type of kurtosis: leptokurtic, platykurtic and mesokurtic. Numerical problems related to real life situations.Numerical problems.	To understand various types of moment. To understand symmetry of the data. To know peakedness and flatness of the data.	Constructive	Fundamentals of Applied Statistics Gupta S. C. and Kapoor V. K.	10
Theory of Attributes : Attributes: Concept of a Likert scale, classification, notion of manifold classification, dichotomy, class- frequency, order of a class, positive classfrequency, negative class frequency, ultimate class frequency, relationship among different class frequencies (up to two attributes), Consistency of data upto 2 attributes. Concepts of independence and association of two attributes. Yule's coefficient of association (Q), $-1 \leq Q \leq 1$, interpretation.	To know concepts of independence and association of attributes	Constructive	Fundamentals of Applied Statistics Gupta S. C. and Kapoor V. K.	7