19HS2501A - QUANTITATIVE TECHNIQUES FOR MANAGEMENT

Course Code	19HS2501A	Year	III	Semester	Ι
Course Category	IDE-I	Branch	-	Course Type	Theory
Credits	3	L-T-P	3-0-0	Prerequisites Nil	
Continuous Internal Evaluation:	30	Semester End Evaluation:	70	Total Marks:	100

	Course Outcomes
Upon s	uccessful completion of the course, the student will be able to -
CO1	Understand the basic concepts for solutions to business problems (L2)
CO2	Apply the analytical techniques in business transactions that would help in making
	effective business decisions (L3)
CO3	Analyze problems in business transactions that would help in making effective
	business (L4)
CO4	Apply the least square technique to find the equation of the curve. (L3)
CO5	Determine the equation of the curve from the given data. (L4)
CO6	Apply the various methods to find the deviations and submit a report (L3)

	Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (3-High, 2: Medium, 1:Low)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C01													2	
CO2	3												2	
CO3		3											2	
CO4	3												2	
CO5		3							2	2			2	

	SYLLABUS	
Unit	Contents	Mapped
No.		CO
Ι	Introduction to Statistics: Meaning, Definition, Functions, Importance,	
	Limitations of Statistics, Collection of Primary and Secondary Data.	
II	Measures of Central Tendency: Definition, Objectives, Characteristics and	
	Techniques: Mean Median, Mode, Geometric Mean and Harmonic Mean.	
III	Measures of dispersion:Definition,Objectives, Characteristics and	
Techniques: Range, Quartile Deviation, Mean Deviation, Standard Deviation		
	and Coefficient of Variation.	
IV	Measures of Skewness & Kurtosis: Definition, types of skewness, types of	
	kurtosis, Karl-Pearson's Co-efficient, Bowley's Co-efficient, Kelly Co-efficient,	
	Calculation of Raw Moments and Central Moments	
V	Curve Fitting: Method of least squares, straight line, parabola, exponential	CO1 CO4 CO5
	curve, power curve	01,004,005

Learning Resources
Text Books:
1. S.C. Gupta and V.K. Kapoor, Fundamentals of Mathematical Statistics, 11/e, Sultan
Chand & Sons Publications, 2012.
2. Dr.T.K.V. Iyengar, Dr.B.Krishna Gandhi, S. Ranganatham, Dr. M.V.S.S.N. Prasad,
"Probability & Statistics", Publications: S.Chand, 4 th Revised Edition, 2012.
Reference Books:
1. S. Ross, a First Course in Probability, Pearson Education India, 2002.
2. Miller and Freunds, Probability and Statistics for Engineers, 7/e, Pearson, 2008.
e- Resources & other digital material:
1. www.nptelvideos.com/mathematics/(Math Lectures from Mit,Stanford,IIT'S
2. nptel.ac.in/courses/111/106/111106150/
3. nptel.ac.in/courses/111105035