INTERDISCIPLINARY ELECTIVE - I QUANTITATIVE TECHNIQUES FOR MANAGEMENT

Course Code	19HS2501C	Year	III	Semester	Ι
Course Category	IDE-1	Branch	IT	Course Type	Theory
Credits	0	L-T-P	3-0-0	Prerequisites	Nil
Continuous Internal Evaluation:	30	Semester End Evaluation:	70	Total Marks:	100

	Course Outcomes						
Upon	Upon successful 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	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
CO1							-						1	
CO2	3												1	
CO3		3											1	
CO4	3												1	
CO5									2	2			1	

	SYLLABUS				
Unit	Contents	Mapped CO			
No.					
Ι	Introduction to Statistics: Meaning, Definition, Functions, Importance,	CO1,CO2,CO3			
	Limitations of Statistics, Collection of Primary and Secondary Data.				
II	Measures of Central Tendency: Definition, Objectives, Characteristics and	CO1,CO2,CO3			
	Techniques: Mean Median, Mode, Geometric Mean and Harmonic Mean.				
III	Measures of dispersion: Definition, Objectives, Characteristics and	C01,C02,C03,C0			
	Techniques: Range, Quartile Deviation, Mean Deviation, Standard Deviation	5			
	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-	CO1,CO2,CO3			
	efficient, Calculation of Raw Moments and Central Moments				
V	Curve Fitting: Method of least squares, straight line, parabola, exponential	CO1,CO4			
	curve, power curve				

	Learning Resources					
Text	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, 4th Revised Edition, 2012.					
Refe	rence 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- Re	sources & 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					
4.	FED Moodle					