QUANTITATIVE TECHNIQUES FOR MANAGEMENT

V 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
Course Code	19HS2501C	Year	III	Semester	I				
Course Category:	Inter Disciplinary Elective	Branch	ME	Course Type	Theory				
Credits:	3	L-T-P	3 - 0 - 0	Prerequisites:	Nil				
Continuous Evaluation:	30	Semester End Evaluation:	70	Total Marks:	100				

	Course Outcomes									
	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	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	PO 5	PO6	PO7	PO8	PO 9	PO10	PO11	PO12	PSO1	PSO2
CO1													2	
CO2	3												2	
CO3		3											2	
CO4	3												2	
CO5		3							2	2			2	

SYLLABUS							
Unit	it Contents						
No.		d CO					
I	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	CO1,					
	Techniques: Range, Quartile Deviation, Mean Deviation, Standard Deviation	CO2,					
	and Coefficient of Variation.	CO3					
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						

Ī	V	Curve Fitting: Method of least squares, straight line, parabola, exponential	CO1,					
		curve, power curve						
			CO5					

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, 4th 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