

DEPARTMENT OF MANAGEMENT STUDIES NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI - 620 015, TAMIL NADU, INDIA

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Course Code	:	MB 701			
Title of the Course		BUSINESS STATISTICS			
Prerequisites	••	Nil			
Trimester		III			
Contact Hours, Type of		30			
Course					
Course Assessment	:	Continuous Assessment, Trimester Examination			
Methods					

OBJECTIVE

To create an understanding on different statistical techniques for data analysis and decision making **Unit I Measures of Central Tendency & Dispersion**

Introduction to statistics-Collecting & tabulating data - Measure of Central Tendency and Dispersion in Frequency Distribution- Probability Theory: classical, objective & subjective Approach-Addition, Multiplication & Bayes Theorem –Applications

Unit II Probability Distributions

Binomial, Poisson and Normal - Decision Making under certainty, uncertainty and Risk

Unit III Sampling Distribution & Estimation

Sampling and Sampling Distribution: Types of sampling —Random Sampling-Concept of Standard Error Central Limit Theorem. Estimation: Types of estimates-Point Estimate, Interval estimate of their population mean, variance and proportion-student-t distribution.

Unit IV Hypotheses Testing

Testing Hypotheses Significance level-Type & Type II error- one Two tail tests — Hypothesis Testing of means, proportion-Chi-Square Test-Analysis of variance.

Unit V Non Parametric methods

Non Parametric methods Kolmogorov Test-Median Test – Mann – Whitney Test – Wilcoxon T Test – Friedman ANOVA-Mcnemar Test-Cochram's Q Test.

TEXT / REFERENCES:

1. Richard I. Levin and David S. Rubin, 'Statistics for Management', Prentice Hall of India, 12h edition' 2011

2. Srivatasava, Shenoy and Sharma, 'Quantitative Techniques for Managerial Decision Making',

- 3. New Age International Pvt. Ltd., 2nd edition, 2002.
- 4. G C Beri, "Business Statistics", Tata Mc Graw Hill, 3rd edition, 2009.

Course outcomes

At the end of the course student will be able

- 1. to understand the characteristics of data taken for the study
- 2. to analyze data using different statistical methods
- 3. to develop hands-on skill to work with excel and SPSS
- 4. to better understand what method to be applied for application taken for analysis



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COURSE OUTLINE TEMPLATE						
Course Title	BUSINESS STATISTICS					
Course Code	MB 701		No. of Credits	2 (weekly 3 hrs)		
Department	Management Studies		Faculty	Dr. P.SRIDEVI		
Pre-requisites	•					
Course Code						
Course Teacher(s) E-mail	E-Mail			psridevi@nitt.edu		
Course Type		Core – I Trimester				
		√ Elective				
		Open Elective				
	Laboratory					

	COURSE TEACHING AND LEARNING ACTIVITIES						
Sl.No.	Week	Торіс	Mode of Delivery				
1.	2 nd week of July 2017	Introduction to statistics-Collecting & tabulating data -	Lecture - Power Point				
	Class – 1 st week	Measure of Central Tendency	Presentation				
	(3 Contact Hours)						
2.	Class- 2 nd week	Dispersion in Frequency Distribution- Probability	Lecture - Power Point				
	(3 Contact Hours)	Theory: classical, objective & subjective Approach-	Presentation				
		Addition, Multiplication & Bayes Theorem –					
		Applications					
3.	Class- 3 rd week	Binomial, Poisson and Normal distribution	Lecture - Power Point				
	(3 Contact Hours)		Presentation				
4.	Class- 4 th week	Decision Making under certainty, uncertainty and Risk	Lecture - Power Point				
	(3Contact Hours)		Presentation				
5.	4 th week (2/3 hours)	Tutorial on portions covered	Problem solving by				
			students				
6.	Class- 5 th week	Sampling and Sampling Distribution: Types of	Lecture - Power Point				
	(3 Contact Hours)	sampling —Random Sampling-Concept of	Presentation				
		Standard Error Central Limit Theorem.					
7.	Class- 6 th week	Estimation: Types of estimates-Point Estimate,	Lecture - Power Point				
	(3 Contact Hours)	Interval estimate of their population	Presentation				
8.	7 th week	Cycle Test for I Trimester / MBA scheduled	EXCEL orientation –				
			Industry expert				
9.	Class- 8 th week	Mean, variance and proportion-student-t	Lecture - Power Point				
	(3 Contact Hours)	distribution	Presentation				
10.	8 th week (2/3 hours)	Tutorial on portions covered	Problem solving by				
			students				
11.	Class – 9 th week	Testing Hypotheses Significance level-Type & Type II	Lecture - Power Point				
	(3 Contact Hours)	error- one Two tail tests —	Presentation				
12.	Class - 10 th week	Hypothesis Testing of means, proportion-Chi-Square	Lecture - Power Point				
	(3 Contact Hours)	Test-Analysis of variance.	Presentation				

13.	Class – 11 th week (3 Contact Hours)	Non Parametric methods Kolmogorov Test-Median Test – Mann – Whitney Test – Wilcoxon T Test –				Lecture - Presentation	Power	Point
14.	11 th week (3 hours)	Tutorial on Assessment*	75%portion*)	ns covered	(Tutorial	Problem students	solving	by
15.	Class – 12 th week (3 Contact Hours)	Friedman ANOVA-Mcnemar Test-Cochram's Q Test.				Lecture - Presentation	Power	Point
						** Evaluation out off contact hours if required**		
16.	October 2017	Trimester Exam Begins						
COURS	COURSE ASSESSMENT METHODS							
Sl. No.	Mode of Assessment	Week /	Date	Remarks		% Weightag	ge	
1.	Assessment	7 th wee	k - 2017	1 hour 30 Minu	tes	25%		
2.	Assignments & Tutorial	11 th w course 2	reek of the 2017.	Class room und evaluation	erstanding	10% for Assignment 15% for Tutorial		
3.	End Semester Examination	Octobe	r 2017	3 Hours		50%		
 Note: Attending all the assessments (Assessment 1 to 3) is MANDATORY for every student. If any student is not able to attend cycle test due to genuine reason, student is permitted to appear for retest. Every student is expected to score minimum 40% (i.e., 40 marks) to pass the course. Otherwise the student would be declared fail and 'F' grade will be awarded. 								
FOR APPROVAL								
Dr D SI	DIDEVI	Du N Tomo	nicolyon		D _m I) Southil Ano		

Dr.P.SRIDEVI	
Course Faculty	

Dr. N.Tamaraiselvan Chairman (Class Committee) Dr.B.Senthil Arasu HoD

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