



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

Phone : +91-431-2503700 (O) , +91-431-2503711 (Direct), Fax : +91-431-2500133 (O/o the Director), E-Mail : psridevi@nitt.edu

COURSE PLAN – PART I			
Course Title	BUSINESS STATISTICS		
Course Code	MB 701	No. of Credits	2
Course Code of Pre-requisite subject(s)	NIL		
Session	JULY- OCT 2018	Section	
Name of Faculty	Dr. P.Sridevi	Department	MBA
Email	psridevi@nitt.edu	Telephone No.	041-2503711
Name of Course Coordinator(s) (if, applicable)	NIL		
E-mail		Telephone No.	
Course Type	<input checked="" type="checkbox"/> Core course	<input type="checkbox"/> Elective course	

SYLLABUS

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-Cochran's Q Test.

COURSE OBJECTIVES

To create an understanding on different statistical techniques for data analysis and decision making

COURSE OUTCOMES (CO)

Course Outcomes	Aligned Programme Outcomes (PO)
1. To understand the characteristics of data and methods taken for the study	2, 5
2. To analyze data using different statistical methods	3, 5, 6
3. To develop decision making skills by analysis results	3, 4, 5
4. To better understand business problems and develop problem solving skills	1, 2, 3, 5, 6

COURSE PLAN – PART II

COURSE OVERVIEW

This course describes statistics techniques on business perspectives

COURSE TEACHING AND LEARNING ACTIVITIES

Sl.No.	Week	Topic	Mode of Delivery
1.	2 nd week of July 2018 Class – 1 st week (3 Contact Hours)	Introduction to statistics-Collecting & tabulating data - Measure of Central Tendency	Lecture - Power Point Presentation & board
2.	Class- 2 nd week (3 Contact Hours)	Dispersion in Frequency Distribution- Probability Theory: classical, objective & subjective Approach- Addition, Multiplication & Bayes Theorem – Applications	Lecture - Power Point Presentation & board
3.	Class- 3 rd week (3 Contact Hours)	Binomial, Poisson and Normal distribution	Lecture - Power Point Presentation & board
4.	Class- 4 th week (3 Contact Hours)	Decision Making under certainty, uncertainty and Risk (Assignment topic to be discussed – Problem/ Case)	Lecture - Power Point Presentation
5.	Class- 5 th week (3 Contact Hours)	Sampling and Sampling Distribution: Types of sampling —Random Sampling-Concept of Standard Error Central Limit Theorem.	Lecture - Power Point Presentation & board
6.	Class- 6 th week (3 Contact Hours)	Estimation: Types of estimates-Point Estimate, Interval estimate of their population	Lecture - Power Point Presentation & board
7.	7 th week	Cycle Test for I Trimester / MBA scheduled	EXCEL orientation workshop – Industry expert (Depends on expert availability)
8.	Class- 8 th week (3 Contact Hours)	Mean, variance and proportion-student-t distribution	Lecture - Power Point Presentation & board
9.	Class – 9 th week (3 Contact Hours)	Testing Hypotheses Significance level-Type & Type II error- one Two tail tests —	Lecture - Power Point Presentation & board
10.	Class - 10 th week (3 Contact Hours)	Hypothesis Testing of means, proportion-Chi-Square Test-Analysis of variance.	Lecture - Power Point Presentation & board
11.	Class – 11 th week (3 Contact Hours)	Non Parametric methods Kolmogorov Test-Median Test – Mann –Whitney Test – Wilcoxon T Test –	Lecture - Power Point Presentation & board
12.	11 th week (3 hours)	Tutorial on 75% portions covered (Tutorial Assessment**) – on additional hours	Problem solving by students
13.	Class – 12 th week (3 Contact Hours)	Friedman ANOVA-Mcnemar Test-Cochran's Q Test.	Lecture - Power Point Presentation

			** Evaluation out off contact hours if required**
14.	October 2018	Trimester Exam Begins	

TEXT / REFERENCES:

1. Richard I. Levin and David S. Rubin, 'Statistics for Management', Prentice Hall of India, 12^h edition' 2011
2. Srivatasava, Shenoy and Sharma, 'Quantitative Techniques for Managerial Decision Making', New Age International Pvt. Ltd., 2nd edition, 2002.
3. G C Beri, "Business Statistics", Tata Mc Graw Hill, 3rd edition, 2009.

COURSE ASSESSMENT METHODS

Sl. No.	Mode of Assessment	Week / Date	Remarks	% Weightage
1.	Assessment 1	7 th week - 2018	1 hour 30 Minutes	25%
2.	Assignment	Will be Assigned 4 th Week	Submit during end term	10%
3.	Tutorial	11 th week of the course 2018	Class room understanding evaluation	15%
4.	Trimester Examination	October 2018	3 Hours	50%

Note:

- A. Attending all the assessments (Assessment 1 to 4) is MANDATORY for every student.
- B. 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.

COURSE EXIT SURVEY

- Feedbacks are collected before final examination through MIS or any other standard format followed by the institute
- Students, through their Class Representatives, may give their feedback at any time to the course faculty which will be duly addressed.

The students may also give their feedback during Class Committee Meeting.

ATTENDANCE:

- Minimum 75% is mandatory to write the trimester examination. Students having attendance 65% to 74% are eligible for the end semester exam only after attending the extra classes and submitting assignments. Students have to redo the course, if they have less than 65% of attendance.
- Medical Certificate / On Duty Certificate should be submitted immediately after rejoining.

COMPENSATION ASSESSMENT:

- One compensation assessment will be given after completion of Assessment 1 for the students those who are absent for any assessment due to genuine reason.
- The prior permission and required document must be submitted for absence.

ACADEMIC HONESTY & PLAGIARISM:

- Avoid usage of electronic devices at classes, test and exam.

- The students are expected to come out with their original solution for the problems given in the assignment. If found to copy from internet/other students, marks will be reduced.
- Need to maintain honesty & discipline in class room and exam hall

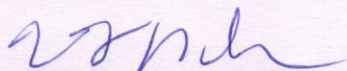
ADDITIONAL INFORMATION

- The students can get their doubts clarified at any time with their faculty member with prior appointment.
- Excel induction workshop date will be intimated based on expert availability

FOR APPROVAL



P.SRIDEVI
Course Faculty



Chairman (Class Committee)



Dr.B.Senthil Arasu
HoD