LESSON PLAN

Program: B.Com(Reg)

Subject Name: Business Statistics & Research

techniques

Subject code: C115AR204

Semester: II

Lecture hours: 60

Faculty in-charge: Mr.Dileep Kumar Shetty and Mr.

Vinay Pradeep

Course Coordinator: Mr.Vinay Pradeep

Course	Course Outcomes	T level
Outcome		Indicator
No.		
CO1	Describe the relevance and role of statistics in business research.	T2
CO2	Select the appropriate tool of measures of central tendency and dispersion in accordance with type of the case for Analysis.	Τ5
CO3	Identify from a probability scenario events that are simple, complementary, mutually exclusive, and independent.	T1
CO4	Select the appropriate test of hypothesis in accordance with type of the case for Analysis.	Τ5
CO5	Select the appropriate tools for Analysis in accordance with type of the case.	Τ5
CO6	Decide what graphs are appropriate for displaying quantitative and categorical variables.	Т6

	Course	No. of	Pre-Class	Instruction	Assessment	T level
Module No. &	Outco	Lecture	Activity	al		
Topics Covered	me No.	Hours		techniques		
1				1		
Module – 1 :	CO1	5	Youtube	Online	Evaluation	T2
Introduction:			video	Videos	through MCQs	
Importance of			(NPTEL)	• Lecture		
Statistics, Scope,				with		
Limitations,				the		
Definition of				help of		
Research,				power		
purpose, scope				Point		
and types of				procont		
research,				present		
objectives of				ation		
research, Steps in				• Discuss		
research (brief),				ion		
Classification of						
data, Formation of						
statistical series,						
labulation	600	10		. .		THE
Module-2:	CO2	13	Youtube	• Lecture		15
Measure of central			video	• Case	Evaluation	
tendency and				Study	through tests	
dispersion: Mean,				• Discuss	and	
Median, Mode,				ion		
Geometrics Mean,				Proble		
Quartiles. Range,				m		
Quartile				colving		
deviation, Mean				solving		
deviation from						
Mean, Median &						
Mode. Standard						

deviation and coefficient of					
variation.					
Module-3:	CO3	12	• Lecture		T1
Probability:			• Discuss	Evaluation	
Classical or			ion	through tests	
mathematical			Proble		
definition of			m		
probability,			solving		
Random			0		
Experiment,					
Equally likely					
outcomes, Sample					
space Mutually					
exclusive events -					
Complement of an					
event, dependent					
event,					
independent					
event, conditional					
probability					
(simple problems).					
Importance of					
probability in					
research.					
Module-4:	CO4	15	• Lecture		T5
Hypothesis			• Case	Evaluation	
testing: Formation			Study	through tests	
of Null and			• Discuss	and	
alternative			ion		
Hypothesis. Level of					
significance, Type I					

and Type II errors, Hypothesis testing – T-test, Z-test Test for single mean and difference between two means only. Chi-Square test.			• Prol m solv	ole		
Module-5: Statistical tools for Research Analysis: Time series and its application, , correlation- scatter diagram, Karl Person & Spearman's coefficient of correlation, coefficient of determination and coefficient of non determination, Regression analysis	CO5	10	 Lect Discion Case stud Prolom solv 	ture cuss e ble ring	Evaluation through tests and	Τ5
Module-6: Diagrammatic and graphical representation of data: Diagrams: Utilities, Limitations, construction of one dimensional, two dimensional and	CO6	5	 Lect Discion Prolom 	ture cuss ole	Evaluation through MCQs, group activity and tests	Τ6

three dimensional diagrams.			
Graphs: Utilities, limitations, constitution			
Frequency			
distribution,			
Histogram,			
Frequency polygon,			
Frequency Curve			
and Ogives.			

Continuous Internal Assessment

- Class test 1 (before midsem exam):First week of January
- Assignment
- Class test 2 (before end sem exam):Last week of February.

Book for Reference:

- C. B. Gupta: Statistics, Himalaya Publications.
- Chikkodi & B. G. Satya Prasad: Business Statistics, Himalaya Publications.
- Dr. Asthana: Elements of Statistics, Chaitanya.
- Dr. B. N. Gupta: Statistics, Sahitya Bhavan, Agra.
- Dr. Sancheti & Kapoor: Statistics Theory, Methods and

Application.

- Ellahance: Statistical Methods.
- S. P. Gupta: Statistical Methods, Sultan Chand, Delhi.

Approved by: