BBA REGULAR

M1 15 AR 104: BUSINESS MATHEMATICS & STATISTICS

LESSON PLAN - 2017 - '18

(Module wise)

UNIT/ SESSION/	TOPICS FOR STUDENT PREPARATION	PROCEDURE (PROCESS)	LEARNING OUTCOME	ASSESSMENT
HOURS	(INPUT)	(1.110 0200)		
(TIME REQUIRED)				
Module – 1 : Theories of Equations 10 hrs.	Theory of equations: Linear – Quadratic- Simultaneous- Application of equations in business and commerce	Explain with illustration problems	To be able to work out simple application oriented problems in these topics	Evaluation through test
Module-2: Interest and Annuities 10hrs	Laws of indices and logarithms- Simple interest – Compound Interest – Annuities – Meaning – Types – Present value and Future value of annuity –Applied problems on Perpetuity - loans – Sinking fund – Endowment fund using Annuity Tables	Explain with illustration problems	To be able to work out simple application oriented problems in these topics	Evaluation through test
Module-3: Introduction to Statistics 8hrs	Meaning and Definition of Statistics, Functions, Scope, Limitation of statistics, Classification of Data, Tabulation of Data, Diagrammatic and Graphic	Lecture with illustrationsDiscussion	To understand the significance of statistics in research purposes and its applicability	Evaluation through test

	Representation of Data				
Module-4: Measures Of Central Tendency and Dispersion 14 Hours	Measures of Central Tendency: Meaning- Arithmetic, Weighted and Combined Mean, Median and Mode, Empirical Relationship, Measures of Dispersion: Meaning, Range, Quartile Deviation, Mean Deviation, Standard deviation and their coefficients	•	Lecture Solving Problems Discussion	To understand the use of simple statistical tools like mean, median and mode	Evaluation through test Evaluation
Time Series 6 Hours	series, Trend analysis by Moving Averages, Least Squares Method (linear).	•	Lecture Solving Problems Discussion	significance and usage of complex statistical tools and to interpret their results	through tests
Module-6: Correlation and Regression 12 Hours	Correlation:Meaning, Fearson'sKarlPearson'sCoefficientofCorrelation,Spearman'sCorrelationCoefficientRegression:Concept, Regression Equations	•	Lecture Solving Problems Discussion	To understand the significance and usage of complex statistical tools and to interpret their results	Evaluation through tests

UNIT WISE BREAK UP

LECTURE HOURS: 60

	UNITS	No. of Lecture Hours	Methodology/Ins tructional techniques	Evaluation/ learning confirmation
MODULE 3	Introduction to Statistics	8		Assignment
1.	Meaning and Definition of Statistics, Functions, Scope, Limitation	3	Lecture and Discussion	

2.	Classification and Tabulation of data	2	Lecture with illustration and work out problems	
3.	Diagrammatic and Graphic Representation	3	Presentation and Computer Lab.	
MODULE 4	Measures Of Central Tendency and Dispersion			Test
1.	Measures of Central Tendency: Mean	3	Illustrations and Problems	
2.	Median and Mode	3	Illustrations and Problems	
3.	Measures of Dispersion: Range, Quartile Deviation and their coefficients	2	Illustrations and Problems	
4.	Mean deviation	2	Illustrations and Problems	
5.	Standard deviation and their coefficients		Illustrations and Problems	
	CIA I (10 marks)		Statistics Assignment	
MODULE 2	Interest and Annuities	10		Test
1.	Laws of indices and logarithms	1	Illustrations and Problems	
2.	Simple interest – Compound Interest – Annuities – Definition – Types – Present value and amount of annuity		Illustrations and Problems	
3.	Perpetuity applied problems on loans – Sinking fund – Endowment fund by use of formulae and Annuity Tables		Illustrations and Problems	
	Mid Term Test – Modules 3, 4, 2			
MODULE 6	Correlation and Regression	12		Test

1.	Correlation: Meaning, Karl Pearson's Coefficient of Correlation	5	Illustrations and Problems	
2.	Spearman's Correlation Coefficient	2	Illustrations and Problems	
3.	Regression: Concept, the two Regression Equations	5	Illustrations and Problems	
	CIA II (10 marks)	1	Test	
MODULE 1	Theories of Equations	10		Test
	Theory of equations (Linear, Quadratic, and Simultaneous)	5	Illustrations and Problems	
	Application of equations to business and commerce	5	Illustrations and Problems	
MODULE 5	Time Series	6		Test
1.	Components of time series	1	Work out problems	
2.	Trend analysis by Moving Averages	2	Work out problems	
3.	Least Squares Method (linear).	3	Work out problems	