JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
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Lesson Plan & Tracking

Programe : MBA	**Session : Fall 2022**	**Year : 2022-23**	**Sem: I**
Course: Quantitative Methods			
Name of the Faculty: Pradipta Ray	**Commencement Date: 20.09.2022**	**Date of Closure:**	

				Blended Mode									
Lecture No.	**Week**	**Unit**	**Topics to be Covered**	**ICT Tool/Platform/ LMS**	**Resources**	**Activity**	**Date**	**Duration**	**Tracking of Lectures**	**Related Course Outcome**	**Signature of Faculty**	**Signature of HoD**	**Remarks (if any)**
1	1	I	Introduction, scope, importance and limitations										
2		I	Applications of inferential statistics in managerial decision-making. Analysis of data: source of data, collection, classification, tabulation										
3		I	Measures of Central tendency: Arithmetic, weighted, geometric mean										
4	2	I	Measures of Central tendency: median and mode										
5		I	Measures of Dispersion: Range, Quartile deviation										
6		I	Measures of Dispersion: Mean deviation, Standard deviation										
7	3	I	Measures of Dispersion: Standard deviation										
8		I	Measures of Dispersion: Standard deviation Coefficient of variation										

9		II	Probability, Axioms of Probability, Conditional Probability										
10	4	II	Baye's Theorem										
11		II	Probability Distributions: Random Variables, Probability Distribution										
12		II	Probability Distributions: Binomial Distribution, Poisson distribution										
13	5	II	Probability Distributions: Continuous Random Variables, Normal Distribution										
14		II	Mathematical Expectation, Moments										
15		II	Moment generating function and Characteristic function.										
16	6	III	Sampling & Sampling Distributions: Concept and definitions, sampling										
17		III	probability samples and non-probability samples										
18		III	relationship between sample size and errors, simple numerical only										
19	7	III	Hypothesis Testing: Sampling theory										
20		III	Hypothesis Testing: Formulation of Hypotheses										
21		III	Hypothesis Testing: Application of t-test										
22		III	Hypothesis Testing: Application of F-test and Chi-Square test										

23	8	III	techniques of association of attributes & testing. Test of significance for small sample.										
24		IV	Time Series Analysis-Mathematical Model										
25	9	IV	Time Series Analysis-Mathematical Model, Variations Trend										
26		IV	Time Series Analysis-Methods of measuring Secular Trend, Measurement of seasonal										
27		IV	Correlation and Regression analysis: Correlation										
28	10	IV	Correlation and Regression analysis: Correlation, Rank correlation meaning										
29		IV	Correlation and Regression analysis: application of regression analysis, difference between correlation & regression analysis										
30		IV	Correlation and Regression analysis: Difference between correlation & regression analysis, regression equations.										
31	11		Revision										
32			Revision										
			Discussions of model question paper										
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			Discussions of model question paper										