Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD DEPARTMENT OF ECONOMICS M.A. (Economics) SYLLABUS

Course Code No.: ECO-111		No. of Credits: 04	Semester: - I
Course Title:		STATSTICAL METHODS	
Course	e Objectives:		
1.	To develop a reasonable u	understanding of economics relationship	ips and relevant statistical
	methods		
2.	To strengthen the statistic	al analysis skill of the students.	and the second
Unit		Course Content	
Ι	Measures of Central Tendency and Dispersion:		
	1.1 Introduction – meaning, scope, importance, limitations of statistics (2)		
	1.2 Data – Types, collection, classification presentation (3)		
	1.3 Measures of Central Tendency – Arithmetic Mean, Harmonic Mean,		
	Geometric Mean, Median, Mode (5)		
	1.4 Measures of Dispersion – Range, Standard deviation, Variance Coefficient		
	of variation (3)		
	1.5 Requisites of good average & properties of good measure of variation (1)		
II	Correlation Analysis:		
	2.1 Meaning and kinds of correlation (2)		
	2.2 Simple correlation Analysis; Pearson's Product Moment Method &		
	Spearman's Rank Correlation Coefficient, concurrent deviation (4)		
6.	2.3 Properties of correlation coefficient estimation of probable errors (1)2.3 Multiple correlation analysis (2)		
	2.4 Partial correlation analysis (2)		
III	Regression Analysis:		
	3.1 Meaning, basic concepts of regression (1)		
4, 1	3.2 Concept of Least Squares Methods and examples (4)		
	3.3 Standard error of estimate (3)		
IV	Theory of Estimation and Hypothesis Testing:		
	4.1 Concept of population an Estimator and its Sampling Distribution (2)		
	4.2 Properties of good estimator (1)		
	4.3 Formulation of statistical hypothesis – Null and alternative hypothesis,		
	l and ll errors (1)		
1	4.4 Hypothesis testing based on t, Z, Chi-Square (5)		
	4.5 F – test, One-Way, Two-Way analysis (4)		
V	Probability:		
	5.1 Concepts – variable, sample space, events, probability (2)		
2	5.2 Laws of probability Addition, Multiplication (4)		
	5.3 Baye's theorem and (1)		
	5.4 Mathematical Expectation theorem & expected values (3)		
	5.4 Probability density function (1)		
	On Bijiwaanob Ambedkar		

1 Student will aware about reasonable understanding regarding analysis of economic relationship between various variable

2 Student will competent to apply statistical tools in economic analysis

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