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

Course Code No.: ECO-311	No. of Credits: 04	Semester: III
Course Title:	ECONOMETRICS - I	

Course Objectives:

The objective of this course is to operationalize empirically economic theory and test economic theory. Its objective is also to predict future movements in the economic variable of interest on the basis of econometric model.

Unit	Course Content	Periods
Ι	Nature, meaning, definition and scope of econometrics, regression model,	14
	reasons for inclusion of error term, principle of least squares, econometric	
	methodology.	
II	The Classical Two-variable Linear Regression Model: Estimation and	12
	Inference, Ordinary least squares (OLS) estimation, the classical	
	assumptions, Gauss - Markov theorem and properties of the OLS	
	estimators, goodness of fit, coefficient of determination.	
III	Multiple Regression Analysis: Estimation, ordinary least squares	12
	estimation, coefficient of multiple determination, General Linear	
	regression model: Matrix formulation, assumptions, properties and	
	estimation.	
IV	Testing of Hypothesis: Confidence internal approach, test of significance	10
	approach, F – test.	
V	Problems in Regression Analysis: Sources, consequences, tests and	12
	remedial measures for auto correlation, multicollinearity, hetero -	
	scedasticity, specification and measurement errors.	

Course Outcome:-

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Student will able to operationalize empirically economic theory and test it. Student can make an econometric model in the process of economic development. They will also able to predict future movement in the economic variable of interest on the basis of economic model.

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Maha Protessor and Head, repartment of Economics or Babasaheb Ambedkar Arrathwada University,