Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD DEPARTMENT OF ECONOMICS

M.A. (Economics) SYLLABUS

Course Code No.: ECO-211		No. of Credits:04	Semester: II
Course Title:		MATHEMATICL METHODS	
1. T 2. T ec	o provide with a simple and conomics and business.	areness regarding economic phenomena. and rigorous introduction to various mathematical tools alor	4 T
Unit	ERG. PTOJESSOF OCIVES	Course Content	Periods
I	Limit & Continuity 1.1 Basic mathematical concepts 1.2 Limit: meaning & problems 1.3 Continuity – meaning & problems 1.4 Applications in Economics		
II	Meaning 2.1 Rules of differentiation of one variable function with proff (4) 2.2 Higher order derivative (2) 2.3 Meaning, rules of differentiation of two variables function (2) 2.4 Partial higher order derivative, cross derivative (4) 2.5 Applications of differentiation (4)		
III	Integration: 3.1 Meaning of integration (1) 3.2 Some basic rules of integration & problems (3) 3.3 Applications in Economics (4)		08 css of the work during
IV	Determinant & Matrices: 4.1 Types of Matrices (2) 4.2 Algebra of Matrices – Addition, subtraction, Multiplication, Inverse (Adjoint method) (6)		
	4.3 Laws – Associative, Commutative, Distributive (1) 4.4 Rank of Matrix (2) 4.5 Determinant (1) 4.6 Cramer's Rule (2) 4.7 Eigen values & Eigenvector (2)		
V	4.8 Matrix differentiation Input – Output Analysi 5.1 Meaning and assump	1 (5)	o hes heen ve astino fo

Learning Outcomes

Student will aware regarding economic analysis mathematical techniques.

5.2 Types of model – open, closed static, dynamic model (1)

5.4 Hawkin – Simon conditions (1)

Dr. (Mrs.) D. J. Makajan

Student will learn various mathematical techniques for economics interpretation

5.3 Output for a given final demand – Leontief open and closed system (5)

Professor and Head, Department of Economic Dr.Babasaheb Ambedicat Dr.Babasaheb University, Marangabad.

08