

PROGRAMME NAME: B. A. (HONS) BUSINESS ECONOMICS
COURSE NAME : MATHEMATICS FOR BUSINESS ECONOMICS- SEM 2

Week	Topic(s)	Teaching Methodology Adopted/ Continuous Internal Evaluation
1	Basic Concepts : Introduction , Number System, Set theory	group discussion-Why and how
2	Sequence : limits of convergent sequence, Series and their convergence, limits of real valued functions;	group solving problems
3	Roots of polynomials, real valued functions and their polynomials	use of whatsapp to send homework
4	Continuity and differentiability of a function; their applications	use of academic sites to understand the concept
5	Intermediate value, extreme value and mean value theorems,	students themselves solving problems on board and explaining
6	Global and local extrema and points of inflexion	videoes to understand 3d image
7	Stationarity , convexity and concavity of a function	Distribution of the notes and simultaneously solving on board
8	Vector and Vector spaces; their operations	use of whatsapp to send assignment questions
9	Scaler product, orthogonality, linear combinations, linear span and basis	solving and answering questions in groups
10	Matrix-their operation, Determinants, and inversepes	Remedial classes for slow learners
11	Linear independence, Rank and solutions to linear simultaneous equations	interactive classes to attract attention of students
12	MID SEMESTER BREAK	Assignment
13	Geometric representation, level curves, partial derivatives	group decesion
14	Young's theorem, homogenous, homothetic functions and CES.Euler's Theorem, chain rule	real world example, revising of the economics concepts
15	Convex set, concavity, convexity; extrema and saddle points	Remedial classes for slow learners

16	Optimization of functions; quasi-concave and quasi-convex functions	students will be solving the questions on board rather than on note book
17	Revision and practice of the concepts	Remedial classes for slow learners