Part A - Introduction			
Subject	**Business Administration**		
Semester	**II**		
Name of the Course	**Business Mathematics-II**		
Course Code	**B23-BBA-204**		
Course Type: (CC/MCC/MDC/CC-M/DSEC/VOC/DSE/PC/AEC/VAC)	**CC-M2**		
Level of the course (As per Annexure-I	**Foundation-Level**		
Pre-requisite for the course (if any)	**None**		
Course Learning Outcomes (CLO):	After completing this course, the learner will be able to: 5. Understand the application of Average, Ratio and Proportion, Percentage, Profit and Loss, Commission, Discount, Broke of Matrixrage in business organisation. 6. Understand simple interest and compound interest and annuities. 7. Understand indices & logarithms. 8. Understand aapplications of linear programming in solving business problems. 5*.		
Credits	Theory	Practical	Total
	2	**0**	**2**
Contact Hours	**30**	**0**	**30**
Max. Marks: **50** Internal Assessment Marks: **15** End Term Exam Marks: **35**		Time: **3 Hours**	

Part B- Contents of the Course

Instructions for Paper- Setter

The Paper-Setter shall set *nine* questions in all and the question paper shall be divided into two parts. **Part 'A'** shall comprise *four* short answer type questions from the whole of the syllabus carrying 1.75 marks each, which shall be compulsory. **Part 'B'** shall comprise *eight* questions (*two* questions from each unit) carrying 7 marks each and the student will be required to attempt *four* questions selecting *one* question from each unit.

Unit	Topics	Contact Hours
I	Average, Ratio and Proportion, Percentage, Profit and Loss, Commission, Discount, Broke of Matrixrage.	8
II	Simple interest and compound interest. Annuities: Types of annuities, Present value and amount of an annuity (including the case of continuous compounding), Valuation of simple loans and debentures, Problems related to sinking funds.	8
III	Indices & logarithms, arithmetic and geometric progressions and their business applications; sum of first n natural numbers, sum of squares and cubes of first n natural numbers.	7
IV	Linear Programming: Formulation of linear programming problems (LPP) and their solution by graphical and simplex methods. Applications of linear programming in solving business problems.	7
V*		

Suggested Evaluation Methods

Internal Assessment: ➢ **Theory** ● Class Participation: **4** ● Seminar/presentation/assignment/quiz/class test etc.: **4** ● Mid-Term Exam: **7** ➢ **Practicum** ● Class Participation: ● Seminar/Demonstration/Viva-voce/Lab records etc.: ● Mid-Term Exam:	End Term Examination: **35**

Part C-Learning Resources
Recommended Books/e-resources/LMS: 8. E. Don and J. Lerner (2009). Schaum's outline of Basic Business Mathematics (2nd Edition). McGraw Hill. 9. L.N.Paul (2002). Linear Programming: an introductory analysis. Tata Mcgraw Hill. New.

*Applicable for courses having practical component.