Course: VSC
Basics of Mathematical Aptitude

Semester: I	Credits: 2	Subject Code: ABBVSCQA12301	Lectures: 30

Course Outcomes:

At the end of this course, the learner will be able to:
- CO1- Relate the basic concepts of quantitative aptitude to given problem.
- CO2- Create critical thinking and problem-solving skills using logical reasoning
- CO3- Demonstrate problem solving skills by use of reasoning
- CO4- Solve problems related to general aptitude covering Quantitative Ability and Logical Reasoning
- CO5- Create computational skills essential to compete in various competitive exams like CAT, CMAT, GATE, GRE, GATE, UPSC, GPSC etc.

Unit 1: Basic Calculations	15

- Number Systems
- LCM and HCF
- Decimal Fractions
- Square Roots and Cube Roots
- Mean
- Mode
- Median
- Problems on Ages
- Surds & Indices
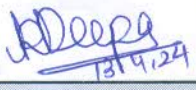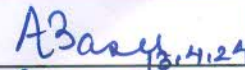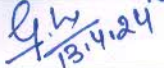- Percentages
- Finding odd man out

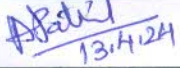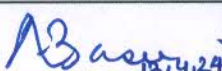|	
Unit 2: Quantitative Aptitude	15

- Blood Relation
- Directional Sense
- Number and Letter Series
- Permutations and Combinations
- Calendars
- Clocks
- Venn Diagrams
- Speed, distance and time
- Mathematical Operations

Board of Studies	Department	Name	Signature
Chairperson (HoD)	Mathematics and Statistics	Dr. Deepa Krishamurthy	Deepa 13/4/24

Reference Books:

- R. S. Agarwal: Modern Approach to Logical Reasoning, New Delhi, S Chand & Co, 2018
- R. S. Agarwal: Quantitative aptitude for Competitive examination, New Delhi, S Chand & Co, 2017
- Sijwali B.S.: Analytical and Logical reasoning for CAT and other management entrance test, Arihant publications, 2004
- Abhijit Guha: Quantitative Aptitude by Competitive Examinations , New Delhi, Tata McGraw Hill Edu Pvt Ltd, 2008, 4th edition

Board of Studies	Name	Signature	
Chairperson (HoD)	Dr. Deepa Krishnamurthi	*Deepa 13.4.24*	
Faculty	Prof. Amrita Basu		*ABasu 13.4.24*
Faculty	Mrs. Geetika Bhati		*G.W 13.4.24*
Subject Expert (Outside SPPU)	Dr. Avinash Patil	*Avinash*	
Subject Expert (Outside SPPU)	Dr. Prashant Malavadkar		*Pr 13.4.24*
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Industry Expert	Ms. Amruta Patil		*APatil 13.4.24*
Alumni	Ms. Janhavi Katkar	*ABasu 13.4.24*	

Board of Studies	Department	Name	Signature
Chairperson (HoD)	Mathematics and Statistics	Dr. Deepa Krishamurthy	*Deepa 13/4/2*