

**Course: VSC**  
**Basics of Logical Reasoning**

<b>Semester: I</b>	<b>Credits: 2</b>	<b>Subject Code: CVSCQA12301</b>	<b>Lectures: 30</b>
--------------------	-------------------	----------------------------------	---------------------

**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.

<b>Unit 1: Basic Mathematics</b>	15
<ul style="list-style-type: none"> <li>● Number Systems</li> <li>● LCM and HCF</li> <li>● Decimal Fractions</li> <li>● Square Roots and Cube Roots</li> <li>● Average</li> <li>● Problems on Ages</li> <li>● Surds &amp; Indices</li> <li>● Percentages</li> <li>● Problems on Numbers</li> </ul>	


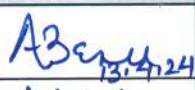
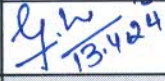
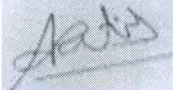
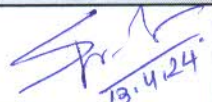
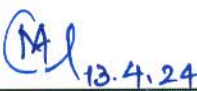
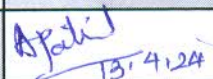
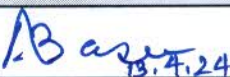
<b>Unit 2: Logical Reasoning</b>	15
<ul style="list-style-type: none"> <li>● Analogy</li> <li>● Blood Relation</li> <li>● Directional Sense</li> <li>● Number and Letter Series</li> <li>● Coding – Decoding</li> <li>● Calendars</li> <li>● Clocks</li> <li>● Venn Diagrams</li> <li>● Seating Arrangement</li> <li>● Mathematical Operations</li> </ul>	



Board of Studies	Department	Name	Signature
Chairperson (HoD)	Mathematics and Statistics	Dr. Deepa Krishnamurthy	<i>Deepa</i> 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, 4<sup>th</sup> edition

Board of Studies	Name	Signature	
Chairperson (HoD)	Dr. Deepa Krishnamurthi		
Faculty	Prof. Amrita Basu		
Faculty	Mrs. Geetika Bhati		
Subject Expert (Outside SPPU)	Dr. Avinash Patil		
Subject Expert (Outside SPPU)	Dr. Prashant Malavadkar		
VC Nominee (SPPU)	Dr. Manish Agalave		
Industry Expert	Ms. Amruta Patil		
Alumni	Ms. Janhavi Katkar		



Board of Studies	Department	Name	Signature
Chairperson (HoD)	Mathematics and Statistics	Dr. Deepa Krishnamurthy	