

<b>INSTITUTE</b>	<b>FACULTY OF TECHNOLOGY</b>
<b>PROGRAM</b>	<b>BACHELOR OF TECHNOLOGY (COMPUTER ENGINEERING)</b>
<b>SEMESTER</b>	<b>4</b>
<b>COURSE TITLE</b>	<b>QUANTITATIVE &amp; LOGICAL ABILITY - 2</b>
<b>COURSE CODE</b>	<b>01CR0402</b>
<b>COURSE CREDITS</b>	<b>0</b>

**Objective:**

- 1 This course shall enrich students' preparedness for the upcoming competitive exams, entrance test, and/or placements.
- 2 It will enhance the numerical skills of the students through the group interactions, practice sessions, and videos.
- 3 This course shall enrich students' preparedness for the upcoming competitive exams, entrance test, and/or placements. It will enhance the numerical skills of the students through the group interactions, practice sessions, and videos

**Course Outcomes:** After completion of this course, student will be able to:

- 1 Inculcate smart approach in quantitative problem solving.
- 2 Build a strong base in the fundamental mathematical concepts.
- 3 Grasp the approaches and strategies to solve problems with speed and accuracy.
- 4 Devise plans for QA domain of the placement drives and competitive exams
- 5 Categorize various types of questions in terms of difficulty levels

**Pre-requisite of course:**Basic Knowledge of Mathematics

**Teaching and Examination Scheme**

<b>Theory Hours</b>	<b>Tutorial Hours</b>	<b>Practical Hours</b>	<b>ESE</b>	<b>IA</b>	<b>CSE</b>	<b>Viva</b>	<b>Term Work</b>
1	0	0	50	0	0	0	50

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
1	<b>Introduction &amp; Pre-Assessment Test</b> Introduction & Pre-Assessment Test	1
2	<b>Vedic Maths – 1 (Multiplication tricks &amp; Squaring of numbers) 2x2 digit numbers and 3x3 digit numbers</b> Vedic Maths – 1 (Multiplication tricks & Squaring of numbers) 2x2 digit numbers and 3x3 digit numbers	1
3	<b>Types of Numbers &amp; Divisibility Test</b> Types of Numbers & Divisibility Test	1

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
4	<b>Class Test 1 and doubt solving session</b> Class Test 1 and doubt solving session	1
5	<b>Factors &amp; Multiples</b> Factors & Multiples	1
6	<b>Cyclicity &amp; Remainder</b> Cyclicity & Remainder	1
7	<b>HCF &amp; LCM</b> HCF & LCM	2
8	<b>Class Test 2 and doubt solving session</b> Class Test 2 and doubt solving session	1
9	<b>Average</b> Average	1
10	<b>AP &amp; GP</b> AP & GP	1
11	<b>Problem Based on Ages/Numbers</b> Problem Based on Ages/Numbers	1
12	<b>Class Test 3 and doubt solving session</b> Class Test 3 and doubt solving session	1
13	<b>Revision</b> Revision	1
<b>Total Hours</b>		<b>14</b>

#### **Textbook :**

- 1 Quantitative Aptitude, Dr. R. S. Agarwal, S. Chand, 2021
- 2 Quantitative Aptitude, Abhijit Guha, MC Graw Hills, 2020

#### **References:**

- 1 Magical Book On Quicker Maths, Magical Book On Quicker Maths, M. Tyra , BSC Publishing Co. Pvt. Ltd, , 2013

#### **Suggested Theory Distribution:**

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery					
<b>Remember / Knowledge</b>	<b>Understand</b>	<b>Apply</b>	<b>Analyze</b>	<b>Evaluate</b>	<b>Higher order Thinking / Creative</b>
10.00	15.00	40.00	35.00	0.00	0.00

**Instructional Method:**

- 1 The course delivery method will depend upon the requirement of content and need of students.
- 2 The trainer shall train students through interactions, demonstration, brainstorming, group tasks, assignments and quizzes etc.
- 3 Students will use supplementary resources such as online videos and books.
- 4 The trainer shall train students through slides, worksheets and marker board.

**Supplementary Resources:**

- 1 [www.indiabix.com](http://www.indiabix.com)
- 2 [www.careerbless.com](http://www.careerbless.com)
- 3 [www.allindiaexams.com](http://www.allindiaexams.com)
- 4 [www.freshersworld.com](http://www.freshersworld.com)