

<b>INSTITUTE</b>	<b>FACULTY OF ENGINEERING AND TECHNOLOGY</b>
<b>PROGRAM</b>	<b>BACHELOR OF TECHNOLOGY (MECHANICAL ENGINEERING - ARTIFICIAL INTELLIGENCE &amp; MACHINE LEARNING)</b>
<b>SEMESTER</b>	<b>3</b>
<b>COURSE TITLE</b>	<b>QUANTITATIVE &amp; LOGICAL ABILITY-1</b>
<b>COURSE CODE</b>	<b>01CR0303</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. This course will also enhance students' logical and verbal reasoning skills, decision making skill, and comprehension skill.
- 2 This course shall enrich students' preparedness for the upcoming competitive exams, entrance test, and/or placements.
- 3 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 logical problem solving.
- 2 Build a strong base in the fundamental logical concepts.
- 3 Grasp the approaches and strategies to solve problems with speed and accuracy.
- 4 Use logical deductions to make effective decisions.
- 5 Categorize various types of questions in terms of difficulty levels

**Pre-requisite of course:**Basic Knowledge of English Language

**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>QUANTITATIVE &amp; LOGICAL ABILITY-1</b> Introduction and Pre - Assessment Test, Calendar, Clock, Class Test 1 and doubt solving session, Direction Senses, Blood Relations, Series, Class Test 2 and doubt solving session , Coding & Decoding, Puzzles, Cubes & Dices, Class Test 3 and doubt solving session	14
<b>Total Hours</b>		<b>14</b>

**Textbook :**

- 1 Analytic Reasoning, By M K Pandey, BSC Publishing Co. Pvt. Ltd, 2018
- 2 Verbal and Non-Verbal Reasoning, R.S. Aggarwal, S Chand, 2019
- 3 A New Approach to Reasoning Verbal & Non Verbal, BS SijWalii & Indu Sijwalli,, Arihant Publications India Limited, 2018

**References:**

- 1 A New Approach to Reasoning Verbal & Non Verbal, A New Approach to Reasoning Verbal & Non Verbal, BS SijWalii & Indu Sijwalli,, Arihant Publications India Limited, 2018

**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 ppts, 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)