

INSTITUTE	FACULTY OF TECHNOLOGY
PROGRAM	BACHELOR OF TECHNOLOGY (CIVIL ENGINEERING)
SEMESTER	4
COURSE TITLE	QUANTITATIVE & LOGICAL ABILITY - 2
COURSE CODE	01CR0402
COURSE CREDITS	0

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

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
1	0	0	50	0	0	0	50

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

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

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					
Remember / Knowledge	Understand	Apply	Analyze	Evaluate	Higher order Thinking / Creative
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
- 2 www.careerbless.com
- 3 www.allindiaexams.com
- 4 www.freshersworld.com