

Course: BTech Semester: 5

Prerequisite: Good fundamentals in calculations and ability to think logically

**Course Objective:** The course aims on exploring the fundamentals of Aptitude & reasoning, which involves the ability to analyze and evaluate information logically. Students will learn essential skills such as critical thinking, problem-solving, and decision-making. These skills are vital for software engineers as they navigate complex problems and make sound judgments throughout the development process.

## **Teaching and Examination Scheme**

|          | ching Schem          | e               |          | Examination Scheme |                |    |   |                |   |       |
|----------|----------------------|-----------------|----------|--------------------|----------------|----|---|----------------|---|-------|
| Lecture  | Tutorial<br>Hrs/Week | Lab<br>Hrs/Week | Hrs/Week | Credit             | Internal Marks |    |   | External Marks |   | Total |
| Hrs/Week |                      |                 |          |                    | Т              | CE | Р | Т              | Р |       |
| 3        | 0                    | 0               | 0        | 3                  | 20             | 20 | - | 60             | - | 100   |

SEE - Semester End Examination, T - Theory, P - Practical

| Cour | se Content  | <b>W</b> - Weightage (%) , <b>T</b> - Teachi  | ng h | ours |  |  |  |
|------|---|---|------|------|--|--|--|
| Sr.  | Topics  | s   |      |      |  |  |  |
| 1    | UNIT-1Number system , LCM & HCF simplifications and approximations  |   |      |      |  |  |  |
| 2    | UNIT-2Averages , progessions,   |   |      |      |  |  |  |
| 3    | UNIT-3Ratio and proportion, Problems on Ages, Percentages   |   |      |      |  |  |  |
| 4    | UNIT-4Profit & loss, partnerships, S.I & C.I  |   |      |      |  |  |  |
| 5    | UNIT-5 Time & work , pipes and Cisterns, Time speed and distance , Problems on train crossings, Boats & streams , |   |      |      |  |  |  |
| 6    | UNIT-6Perm  | IIT-6Permutations & combinations, probability |      | 5    |  |  |  |
| 7    | UNIT-7 Directions, seating arrangements   |   | 4    | 2    |  |  |  |
| 8    | UNIT-8Clocks, calenders   |   | 6    | 3    |  |  |  |
| 9    | UNIT-9Cubes & Dice, syllogisms  |   | 9    | 4    |  |  |  |
| 10   | UNIT-10Bloc   | <b>Γ-10</b> Blood Relations                   |      |      |  |  |  |
| 11   | UNIT-11Series ,Analogy, odd man out, coding and Decoding  |   | 5    | 3    |  |  |  |

## Reference Books

| 1. | Quantitative Aptitude for CAT by Arun Sharma (TextBook) |  |  |  |  |
|----|---|--|--|--|--|
| 2. | ogical reasoning for CAT by Arun Sharma                 |  |  |  |  |
| 3. | Quantitative Aptitude by Abhijit Guha                   |  |  |  |  |

#### **Course Outcome**

## After Learning the Course the students shall be able to:

- 1. Apply Logic & critical thinking skills to analyze information and draw logical conclusions.
- 2. Solve complex problems by breaking them down into manageable parts & develop effective solutions.
- 3. Demonstrate the ability to approach problem-solving from various perspectives.



Miscellaneous

# **Exam Requirement**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc

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