

**SKILL ENHANCEMENT COURSE-II (SPECIAL)**  
**COMMUNICATIVE AND LOGICAL THINKING**  
**(SPECIAL COURSE)**  
**SYLLABUS**

**I. QUANTITATIVE APTITUDE & DATA INTERPRETATION**

Unit-1: Whole numbers, Integers, Rational and irrational numbers, Fractions, Square roots and Cube roots, Surds and Indices, Problems on Numbers, Divisibility.

Steps of Long Division Method for Finding Square Roots

Unit-2: Basic concepts, Different formulae of Percentage, Profit and Loss, Discount, Simple interest, Ratio and Proportion, Mixture.

Unit-3: Time and Work, Pipes and Cisterns, Basic concepts of Time, Distance and Speed; relationship among them.

Unit-4: Concept of Angles, Different Polygons like triangles, rectangle, square, right angled triangle, Pythagorean Theorem, perimeter and Area of Triangles, Rectangles, Circles.

Unit-5: Raw and grouped Data, Bar Graphs, Pie charts, Mean, Median and Mode, Events and Sample Space, Probability.

**II. LOGICAL REASONING**

Unit-1: Analogy basing n kinds of relationships, Simple Analogy; Pattern and Series of Numbers, Letters, Figures. Coding- Decoding of Numbers, Letters, Symbols (Figures), Blood relations.

Unit-2: Logical Statements- Two premise argument, More than two premise argument using connectives.

Unit-3: Venn Diagrams, Mirror Images, Problems on Cubes and Dices.

