

## (Syllabus 2)

### Skill Enhancement Course 4: Quantitative Aptitude (Offered by the Department of Mathematics)

#### Open for All

Duration: 24 Hours

#### Unit 1: Vedic Mathematics (4 hrs)

Multiplication, Square and Square Roots, Cube and Cube Roots, Relation Between Percentage and Reciprocals

#### Unit 2: Numbers (6 hrs)

HCF & LCM, Averages, Equation, Inequalities

#### Unit 3: Percentage (6 hrs)

Profit, Loss and Discount, Simple and Compound Interest

#### Unit 4: Time, Speed, and Distance (4 hrs)

Boats & Streams (Upstream and Downstream Motion), Train Problems, Race Problems

#### Unit 5: Indices and Logarithms (4 hrs)

Surds, Age Problems Ratio & Proportion

#### Unit 6: Geometry (4 hrs)

#### Unit 7: Clocks (4 hrs)

Partnership, Alligation, Progression

#### Unit 8: Chain Rule (4 hrs)

Time & Work, Pipes & Cisterns

#### Reference books:

1. Quantitative aptitude for Competitive examination By R S Agarwal
4. Magical Book on Quicker Maths by M. Tyra