



M.M.E.S WOMEN'S ARTS AND SCIENCE COLLEGE
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VALUE ADDED COURSES

Course Name	MATHEMATICS FOR COMPETITIVE EXAMINATIONS
Course Code	VAMC25
Duration	30 HOURS
Offered by	DEPARTMENT OF MATHEMATICS

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Course Objectives:

To introduce concepts of Mathematics with emphasis on analytical ability and computational skill needed in competitive examinations

Course Outcome

At the end of the course the student should be able to

- (i) Know the simple interest problems
- (ii) Know the complex interest problems
- (iii) Analyze the time and work problems
- (iv) Find the probability
- (v) Analyze the data interpretation problems

Syllabus

Unit – I

SIMPLE INTEREST

Definition – Amount – Amount becomes N Times the Principal – Repayment of Debt in Equal Installments – Rate and Time are Numerically Equal – Simple Problems.

Unit – II

COMPOUND INTEREST

Introduction – Conversion Period - Basic Formula – Special Cases – To Find the Principal/Time/Rate – Difference between Compound Interest and Simple Interest – Simple Problems.

Unit – III

TIME, DISTANCE AND WORK

Definition – Basic Concepts – Average Speed – Distance Covered is same - Distance Covered is Different – Simple Problems.

Unit – IV

PROBABILITY

Definition – Classical definition of probability- Formula on Probability - Permutation and Combination – Simple Problems.

Unit – V

DATA INTERPRETATION

Introduction – Ratio – Percentage – Average – Tables – Simple Problems – Graphs and Charts.

Reference Book

1. Abhijit Guha, Quantitative Aptitude for Competitive Examination, Tata McGraw-Hill Publishing Company Limited, New Delhi.
2. R. S. Aggarwal, Quantitative Aptitude for Competitive Examination, S. Chand and company, New Delhi.