

**Information Brochure**  
**For**  
**Admission to**  
**2-Year (4-Semester)**  
**Full-Time**  
**Master of Computer Application (MCA)**  
**Program 2022-2023**

---

## 🌀 Eligibility Criteria 🌀

**For admission to first year of MCA :** For admission to first year of MCA , a candidate must have passed Bachelors degree course of 03 Years minimum duration from any recognized Indian University; or its equivalent . Candidate must have passed Mathematics at 10+2 level or Graduation level.

## 🌀 Availability of Seats & Reservations 🌀

The number of seats available for session 2022-23 for the MCA Program is as given below:

Number of Seats=60+6(E.W.S)

**Reservations:** The reservation criteria for the state quota are as per the norms of the respective State Government.

## 🌀 Fees Structure 🌀

•Fees= Rs59,200 per year

## 🌀 Syllabus for the Entrance Test for MCA 🌀

The MCA 2022 Entrance Test shall comprise of 100 questions to be answered in 2 hours. Questions will be of objective type with multiple choices out of which only one is correct. A candidate must select only the correct answer to score full marks. For each correct answer a candidate will earn 4 marks. If a question has not been attempted no credit will be given. The questions will be distributed into various areas as follows and the detailed syllabus is given below:

## 🌀Syllabus of Examination for admission to MCA🌀

•No negative marking

Section	Subject	No of Questions
A	Mathematics	25
B	Numerical Ability and Analytical Aptitude	25
C	Reasoning and Logical Deduction	25
D	Computer Awareness	25

### **Section A (Mathematics):**

- ❖ Set Theory: Concept of sets – Union, Intersection, Cardinality, Elementary counting; permutations and combinations. • Probability and Statistics: Basic concepts of probability theory, Averages, Dependent and independent events, frequency distributions, measures of central tendencies and dispersions.
- ❖ Algebra: Fundamental operations in algebra, expansions, factorization, simultaneous linear /quadratic equations, indices, logarithms, arithmetic, geometric and harmonic progressions, determinants and matrices.
- ❖ Coordinate Geometry: Rectangular Cartesian coordinates, distance formulae, equation of a line, and intersection of lines, pair of straight lines, equations of a circle, parabola, ellipse and hyperbola.
- ❖ Calculus: Limit of functions, continuous function, differentiation of function, tangents and normal, simple examples of maxima and minima. Integration of functions by parts, by substitution and by partial fraction, definite integrals, applications of definite integrals to areas.
- ❖ Vectors: Position vector, addition and subtraction of vectors, scalar and vector products and their applications to simple geometrical problems and mechanics.
- ❖ Trigonometry: Simple identities, trigonometric equations, properties of triangles, solution of triangles, heights and distances, general solutions of trigonometric equations.

**Section B (Numerical Ability and Analytical Aptitude):** Numerical calculation, arithmetic, simple algebra, geometry and trigonometry, Interpretation of graphs, charts and tables.

- ❖ Arithmetical questions up to 10<sup>th</sup> standard.
- ❖ Calculation of fraction, percentages, square roots etc.
- ❖ Profit & Loss and Interest calculations.
- ❖ Data/Table analysis, Graph & Bar Diagram and Pie Chart analysis.
- ❖ Questions related to common use of science(Physics & Chemistry)Health & Nutrition.

**Section C (Reasoning and logical deduction) Thinking and Decision Making:** Creative thinking, unfamiliar relationships, verbal reasoning, finding patterns trends and Assessment of figures & diagrams.

- ❖ Geometrical designs & Identification.
- ❖ Selection of related letters / words / numbers /figures.
- ❖ Identification of odd thing / item out from a group.
- ❖ Completion of numerical series based on the pattern /logic.
- ❖ Fill in the blanks of the series based on the numerical pattern and logic of the series.
- ❖ Syllogisms (logic based questions), Identification of logic & selection of correct answers based on the logic.

### **Section D (Computer Awareness):**

- ❖ Computer Basics: Organization of a computer, Central Processing Unit (CPU), structure of instructions in CPU, input/output devices, computer memory, and back-up devices.
- ❖ Data Representation: Representation of characters, integers and fractions, binary and hexadecimal representations, binary arithmetic: addition, subtraction, multiplication, division, simple arithmetic and two's complement arithmetic, floating point representation of numbers, Boolean algebra, truth tables, Venn diagrams