

VELLORE INSTITUTE OF TECHNOLOGY
VELLORE, TAMILNADU
(DEEMED UNIVERSITY)

MASTER OF COMPUTER APPLICATIONS (MCA)

Eligibility :

Minimum 60% of aggregate of marks is required in the qualifying Bachelor's Degree. The candidates appearing for the final semester examination to be held in April/May and whose result will be available on or before 15th August are also eligible for admission.

Pattern of Examination :

The question paper will contain 110 questions, with a maximum of 100 marks. All Questions will be of Objective Type. Each Question will be followed by 4 alternative answers. The candidate has to choose and mark against the correct answer as per the instructions given on the top of the question paper. No negative marks for wrong answers.

Syllabus :

English :

Scentence Correction, Comprehension

Logical Reasoning :

Mathematics :

Algebra :

Sets, Relations and functions, Summation of series, Progressions (Arithmetic, Geometric and Harmonic), Partial fractions, Complex numbers, Logarithms.

Differential and Integral Calculus :

Limit-Continuity-Differentiability, Successive differentiation, Leibniz theorem (definition and applications), Mean Value Theorems (Role's and Lagrange's definitions only), Maxima and Minima, Indefinite and definite integrals, Trapezoidal, Simpson's rules of integration, Partial differentiation.

Statistics :

Mean, Median, Mode, Mean deviation, Standard deviation, Moments, Correlation and regression.

Probability :

Probability, Conditional probability, Baye's theorem, Binomial, Poisson, normal distributions.

Coordinate Geometry :

Distance between two points, Section formulae, Collinear points, Centroid, Translation and rotation of coordinates, plane, Perpendicular and parallel conditions, Straight-line (slope, slope-intercept form, intercept form, normal form), parallel lines, perpendicular lines, Intersection of two lines, Angle between two lines, Line passing through intersection of two lines, Foot of perpendicular, Circle given centre and radius, Circle passing through extremities of a diameter, circle passing through three points, Great circle.