



UNIVERSITY DEPARTMENT OF COMPUTER APPLICATIONS
VINOBA BHAVE UNIVERSITY, HAZARIBAG

Information brochure

Selection Procedure:

Students will be selected through Entrance Aptitude Test followed by interview and counseling conducted by the University.

Structure & Syllabus of Aptitude Test for BCA

Aptitude test will be of 90 minutes and will Comprise 50 Multiple Choice/Objective type questions of 100 marks in two sections:

Section	Subject	No. of Questions
A	Mathematics	25
B	General Ability Test	25
	Total	50

Negative Marking: One fourth of the marks of each question will be deducted for wrong answers.

Result: Result of Entrance test will be published on the university website/ notice board of the department. Selected candidates must appear in the interview and counseling with all original documents to be verified. Final selection will be made after counseling of screened candidates in person.

Section A: Mathematics (50 marks)

Algebra: AP, GP, HP, Theory of quadratic equation. Permutation and combination, Binomial Theorem.

Trigonometry: General values of trigonometrically functions, Inverse Circular functions, Logarithms.

Calculus: Limits of function, Differentiation of function. Implicit function. Integration by the method of substitution, method of transformation and method of integration by parts definite integration, dy/dx as a rate measurer.

Co-ordinate Geometry: Equations of Straight lines.

Matrices: Addition, subtraction and multiplication of matrices.

Vector Analysis: Addition of vectors, product of two vectors, Statics-Resultant of two forces at a point inclined at an angle, triangle of forces, converse of triangle of forces Lamas theorem, Projectiles.

Section B: General Ability Test (50 marks)

Computer Basics, General Science, General Studies, English & Reasoning (verbal / non verbal)