

10/08

## ADMISSION NOTICE

University Department of Computer Applications  
Vinoba Bhave University, Hazaribag, Jharkhand

Applications are invited for admission in 02 years MCA course (year 2023)

Course	Eligibility	Admission Procedure	Cost of Form
2years MCA (04 Semesters)	1. Bachelor's degree with at least 50% marks in any discipline (with mathematics at 10+2 level) or BCA/B.Sc(IT)/B.Sc(C.S) 2. Candidates appeared /appearing in year 2023 may also apply	Entrance test followed by counseling	1000.00

- Candidates can apply online through Chancellor Portal whose web address is <https://jharkhanduniversities.nic.in/home> from **10/08/2023** to **10/09/2023**. Entrance test is schedule to be held on **12-09-2023**.
- Schedule dates of admission process:-

01	Date of filling online application forms	10-08-2023 to 10-09-2023
02	Date of entrance exam	12-09-2023
03	Venue/Time	MCA dept (Jagdish Chandra Bose Bhawan), 11:00 AM
04	Date of publication of entrance exam result	15-09-2023
05	Date of counseling	19-09-2023 and 20-09-2023
06	Provisional selection list	22-09-2023
07	Date of admission	23-09-2023 to 27-09-2023
08	Date of commencement of classes	03-10-2023

By the order of Vice – Chancellor

(Kaushalendra Kumar) 10/08/23

Registrar

Sd/- *R.K. Dwivedi*  
10.8.2023

(R.K.Dwivedi)

Director

Department of Computer Applications, VBU, Hazaribag.

*Suvar*  
10/08/2023

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## Structure & Syllabus for MCA-CET (2 Years)

The MCA Common Entrance Test shall comprise of 50 questions to be answered in 90 minutes. 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 2 marks and for each wrong answer a candidate will earn 0.25 negative marks. The questions will be distributed into various areas as follows and the detailed syllabus is given below:

Section	Subject	No. of Questions
A	Mathematics	20
B	Analytical ability & Logical Reasoning	10
C	Computer Awareness	20
Total		50

### Section A: Mathematics (40 Marks)

**Algebra:** Fundamental operations in Algebra, expansion, factorization, quadratic equation, indices, logarithms, arithmetic, geometric and harmonic progression, binomial theorem, permutations and combinations, surds

**Set Theory:** Sets and subsets operations on sets, sequences, properties, of integers, relations and functions

**Matrix Algebra :** Elementary transformation, inverse of a matrix, rank solution of simultaneous linear equations, Eigen values and Eigen vectors, quadratic forms.

**Co-ordinate Geometry:** Rectangular Cartesian co-ordinates, equations of a line, midpoint, intersections etc. equations of a circle, distance formula, pair of straight lines, parabola, ellipse and hyperbola, simple geometric transformations such as translation, rotation, scaling.

**Calculus:** Limit of functions, continuous functions, differentiation of functions(s), Taylor Series, tangent and normal, simple examples of maxima and minima, integration of function by parts, by substitution and by partial fraction, definite integral and its application to volume and surfaces of frustums of a sphere, cone, cylinder.

### Section B: Analytical Ability and Logical Reasoning (20 Marks)

Question in this section will test logical reasoning, quantitative, and visio-spatial reasoning.

### Section C: Computer Awareness : (40 Marks)

**Computer Basic:** Introduction to computers & number systems and logic gates, Computer architecture & primary memory, Secondary storage, Input & output devices, Computer program, Computer languages, Computer software, Operating system, Data communication, Computer network & Internet basics.

**Documents (hard copy) Required at the time of counseling and Admission in the University**  
**Department of Computer Applications, VBU:**

- Xerox Copy and original of Marks Statement of 10<sup>th</sup>, 12<sup>th</sup> and graduation
- Xerox Copy and original of Category (SC/ST/OBC(SDO LEVEL)/EWS) Certificate (if Applicable).
- Xerox Copy of AADHAR.
- Original Migration and Transfer Certificate (TC) /Department Leaving Certificate (DLC)
- Two Coloured Passport Size Photographs

*Ravi*  
10.8.2023

Director  
Dept. of Computer Applications  
Vishwa Bhawan University  
Hazaribag

*S. K. S.*  
10/08/2023