

INFORMATION BROCHURE

ADMISSION TO

MCA

COURSE 2010

AT

**JORHAT ENGINEERING COLLEGE
JORHAT, ASSAM**

(A.I.C.T.E. APPROVED PURELY STATE GOVT.
ENGG. COLLEGE)

www.jecassam.in

BRIEF INTRODUCTION OF THE COLLEGE

1. Jorhat Engineering College

The Jorhat Engineering college was established in 1960 and located at a distance of 3 km to the east of Jorhat Railway Station and about 10 km to East of Jorhat Air Port. The College is affiliated to the Dibrugarh University and it offers five UG Courses in Engineering and one P.G. Course, namely Master of Computer Application (MCA) approved by AICTE.

2. About the department

The department of Master of Computer Application, Jorhat Engineering College, Jorhat, Assam was established in the year 1987. It is the oldest M C A Department in Northeast Region imparting Computer Education in Post Graduate level. The department offers Master of Computer Application (M.C.A.) course is of three years duration. The intake capacities is 30 students per year/ “The Department is recognized by A.I.C.T.E. and affiliated to Dibrugarh University.

The department also has a training and consultancy cell, which is mainly dealing with software development and conducting training courses.

The passed out students of this department are working in different Govt./Public Sector/ Private Organizations like the department of Science and Technology, Remote Sensing Centre- Assam. SAIL, BHEL, SATYAM, ISRO, CDTO, HAL, ONGL, IOC WIPRO, HCL, INFOSYS, CTS, SUSCAN, LG, MOTOROLA, HUAWEI TECHNOLOGIES etc. Moreover many of the students of this department are doing remarkable works abroad.

3. Laboratory

The department is well equipped with two computer laboratories with latest hardware and software. The department has a well established with gigabit network of all the computers in the two labs having internet facility. It has a separate Server room with two IBM xeon server to control all the computers in the network. The servers are based on both Linux and Windows. The network also has an Apache Tomcat Web Server and an Oracle Application Server.

Besides these computing facilities the department also has “Basic Electronics and “Microprocessor and Embedded Design Lab.”

Computers are connected with broadband internet connectivity.

4. Library

In addition to the central library of the college, the department also has its own library, the library contains a large collection of books, journals, various Project report and magazines related to the field of computers and Information Technology.

BRIEF INTRODUCTION OF THE COURSE MCA

First Semester : Theory of Computer science, basic Electronics, Numerical computations and Statistical Methods, Accounting & Financial Management, Computer Programming & Problem Solving & LAVORATORY-I.

Secoond Semester : Computer Based Optimisation Technique, Data & File Structures, Combinatorics & Graph Theory, Information Systems Computer Organisation & Laboratory-II

Third Semester : System Software, Computer Graphics & Multimedia, Database Management System-I, Microprocessor and Embedded Design, Object Oriented Programming and Design & Laboratory-III

Fourth Semester : Operating System, Software Engineering Data Base Management System-II, Computer Communications, Design and Analysis of Algorithms & Laboratory-IV.

Fifth Semeter : Operating System, Software Engineering Data Base Management System-II, Computer Communications, Design and Analysis of Algorithms & Laboratory-IV.

Fifth Semester : Data ware Housing and Data mining, Computer Networks, Computer Architecture, Elective-I, Elective-II & Mini Project.

Elective - I Microprocessors, Artificial Intelligence, Distributed System, Image Processing, Expert Systems, Information Storage and Retrieval.

Elective - II Multimedia Systems, Web Technology, Computer Aided Management, Simulation and Modelling, Programming Languages and Paradigms, Wireless & Mobile Computing.

Sixth Semester : System Project, Viva Voice.

Entry Eligibility : to be eligible for admission to the course a candidate must fulfil the following conditions:-

- * Be an Indian Citizen, PRC must be provided.
- * Have a bachelor degree (10+2+3) or BCA with minimum 45% (40% for Sc/ST) marks from any recognized university having passed mathematics at (10+2) level.
- * Age between 20-26 years on the 1st day of July of the year of admission
- * Be Physically and mentally fit.
- * Preference will be given to students having cleared AIMCET conducted by IITR for selection of outside state applicants. **Ap-**

plication : Application form for seeking admission in to MCA course can be obtained from the office of the Principal, Jorah Engineering College. The advertisement is usually made in the month of May. Filled up application are to be submitted latest by 04/06/2010.

**Application form can be downloaded from
www.jecassam.in**

ADMISSION TEST :

There is only one paper of 3 hours duration for admission test which consist of three sections:

- | | | | | |
|----------------------------------|---|---------|---|----------|
| (a) Mathematics
(10+2) level. | : | 60 min. | : | 40 Marks |
| (b) Reasoning | : | 50 min | : | 30 Marks |
| (c) English | : | 50 min | : | 30 Marks |

SELECTION PROCEDURE :

Candidate are selected for admission on the basis of merit of an Admission Test held usually on the month of June every year. Candidates will be selected from merit list prepared on the basis of marks in Mathematics and Reasoning section, obtained by candidates who have secured at least 30% marks in English section. The merit list is usually published in last week of June and admission takes place immediately after it. Classes start from first week of August.

IMPORTANT DATES

Form Issue	:	Immediately after the advt.
Last date of form submission	:	04/06/2010
Admission Test	:	13/6/2010
Result (Tentative)	:	Within two weeks
Admission on	:	Last week of June 2010
Classes start	:	01/08/2010

SPECIMEN QUESTIONS MCA ENTRANCE TEST
One paper of three hours duration containing-3 parts

Part-I

Mathematics : 40 Marks: One Hour (11:00hrs-12:00hrs) Usually around 15-20 objective questions with multiple choice (to be answered in the booklet itself) and 5-10 short questions to be answered in blank sheets provided along the question booklet.

Sample Questions Objective Type:

1. If $(b+c-a)/a$, $(c+a-b)/b$, $(a+b-a)/c$ are in A.P. then a,b,c are in (A) AP. (B) G.P. (C) H.P (D) none of these.
2. If A lies in the second quadrant and $3 \tan A+4=0$ then the value of $2\cot A-5 \cos A+\sin A$ is equal to
(a) $13/10$ (b) $23/10$ (c) $43/10$ (d) none of these
3. If $a^2 + b^2 + c^2 = 1$ then $bc+ca+ab$ lies in the interval
(a) $[-\frac{1}{2}, 3]$, (b) $[-1, 2]$, (c) $[-\frac{1}{2}, 1]$, (d) $[-1, \frac{1}{2}]$
4. The probability of getting a total of 7 points in two successive throws of a die is-
(a) $5/36$ (b) $1/6$ (c) $7/36$ (d) $1/4$
5. The Sum of the divisions of $3^7 5^3 7^2$ is (a) $3^8 5^4 7^3$ (b) $3^8 5^4 7^3 - 1$ (c) $3^8 5^4 7^1 - 3.5.7$.

Part-II Reasoning : 20 marks : 50 minutes(12:10 hrs-13:00hrs)

All questions (around 20-25) are of multiple choice type and to be answered in the question booklet itself.

1. Which of the following words cannot be formed from the letters used in the word "STRANGE"
2. In a bus there are 12 small seats on each of which 2 passengers can sit and 2 long seats on which 14 passengers can sit, If half of the sitting passengers are allowed to stand, then the capacity of the bus (in terms of passengers) is
(a) 46 (b) 52 (c) 528 (d) 852.
3. If ARE = 25 and NOT = 50 then MAYBE is equal to
(a) 47 (b) 46 (c) 45 (d) 44
4. If '+' means '-', '-' means 'x', 'x' means ':', ':' means.
Then $8+2-3+4 \times 2 =$
(a) 10 (b) 11 (c) 9 (d) 12

Part-II English : 30 marks : 50 minutes (13:10 - 14:00 hrs)

1. Comprehension-reading a passage and answering few questions thereon.
2. Grammar-Correction, rewriting of sentences, punctuations, proper use of verbs, prepositions etc.