



TRIPURA UNIVERSITY
(A *CENTRAL UNIVERSITY*)
Suryamaninagar-799130

**Master of Computer Application
(MCA)**

(Session: 2009-2012)

**Prospectus
Cum
Application Form**



MASTER OF COMPUTER APPLICATION (MCA)

Contact Address & Phone No.

- a) School of Information Technology and Computer Science
Tripura University, Suryamaninagar-799130, West Tripura.
☎ 0381-290-8757
Mobile: 09436454409
- b) Directorate of Professional Studies, Tripura University
Suryamaninagar-799130, West Tripura.
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Introduction:

The sending and receiving of vast amount of information in long distances and in short period of time has been a goal since human beings learnt to communicate. Words are continuously added to languages to convey new or more complete ideas. Method of transmitting those words and related information have been and are continually being developed. Along with these methods, codes have been arisen to convey letters, words and data. The coding of information into quantities of sound or smoke were two of the earliest attempts to communicate over long distances. The transfer of data in the digital form began around 1832 with the advent of Morse code, a systematic code that represents printable characters of a language using a form of binary data. Morse code served as a means of communicating information for a considerable amount of time. Within the production of work and business office environment, requirement of quick access to large amounts of information have led to the development of localized communication systems, such as local area networks(LAN), metropolitan area network (MAN) and wide area network (WAN). The networks are formed by computer system, communication equipment, various terminals and peripheral devices connected to a common communication network. Still the boundaries of communication are being extended. Multiple channels of communication are carried simultaneously through networks spanning the globe. More communication satellites are circling the earth, while fibre optic transatlantic cables are being laid. The fibre optic cables will supply many times the number of communication lines presently available. Integrated communication services have been developed that provide a way to sent and receive voice, video and data information on a single network. This service is called integrated Services Digital Network (ISDN).

Based on communication techniques, Information Technology is growing very rapidly. The increasing applications of computers in almost all areas of human endeavor have led to a vibrant industry with concurrent rapid change in technology. There are two main streams of computer education: engineering stream leading to BE/B Tech, ME degree, and application stream leading to BCA and MCA degrees. In Engineering stream primary stress is devoted to design of computer hardware and system software. On the other hand, the major emphasis in computer application is given on designing information systems for various organizations such as banks, insurance companies, hotels, factories, educational institutes and hospitals. The main objectives of the students will be to develop application software in diverse areas where computers are widely used. The students shall be provided with a sound background in computing, business functions and mathematics relevant to information Technology.

Keeping all this in mind, the University established the School of IT and CS in 2002 and introduced the BCA & MCA programmes. The School is equipped with the latest Core 2 DUO(V-Pro Technology) PC with internet and print facilities. It has also with electronic and microprocessor laboratory having latest instruments.

Organizing Department: :

MCA Course is organized under the School of Information Technology and Computer Science, Tripura University

Duration of the Programme:

The Whole course is designed into six semesters, every one is six months duration.

Eligibility for admission:

Candidates who have passed BCA/BA/B.Sc/B.Com TDC Examinations with at least 45 percent marks in aggregate from a recognized University and having previously passed the H.S. (+2) or its equivalent examination from a recognized Board/ Council with Mathematics shall be eligible for admission to the MCA programme. A relaxation of 5% of marks is allowed for SC/ST/OBC and Physically handicapped candidates.

Number of seats:

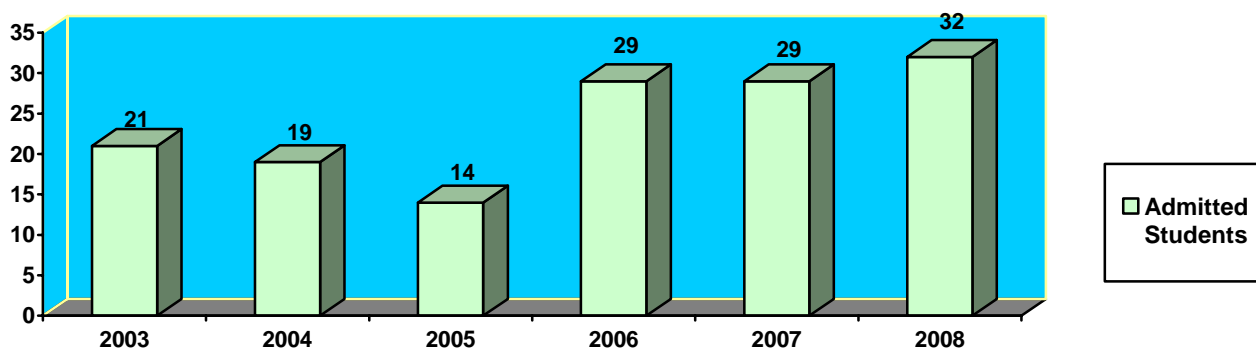
The maximum intake capacity to the programme is thirty, out of which five seats shall be reserved for in-service candidates. If suitable in-service candidates are not available, such seats shall be treated as unreserved.

Reservation for SC/ST/OBC/PH candidates in respect of admission shall be made as per rules of UGC and the policy of Govt. of India.

Policy against ragging :

The directives of the Honorable Supreme Court against ragging will be followed strictly.

Students Enrolment:



Procedure for admission:

The interested candidates are required to download Prospectus-cum-Application form from the Tripura University website: www.tripurauniversity.in. In case of any difficulty, the application form only may be collected free of cost from the office of the Hony. Director, Directorate of Professional Studies (DPS), Tripura University, Suryamaninagar-799130 before the last date of submission.

The completed application form, along with relevant documents and an A/C payee Demand Draft of Rs. 150/- from any branch of State Bank of India drawn in favour of "Directorate of Professional Studies, Tripura University" payable at State Bank of India, Tripura University Campus Branch (Code No.: 10495), may be submitted through Registered Post/ Speed Post/ In Person within the last date of submission of application form as notified in advertisement to the following address:

**Hony. Director
Directorate of Professional Studies (DPS),
Tripura University, Suryamaninagar-799130,
West Tripura**

Instead of an A/C payee Demand Draft any candidate can attach a copy of the Bank Challan (A/C No. 10333227475) with his/ her completed Application form at the time of submission after depositing Rs. 150/- to the counter of State Bank of India, Tripura University Campus Branch, Suryamaninagar. The Bank Challan shall be available at the above mentioned office.

The candidate who will submit his/ her completed application form through post must attach a self addressed envelope (21cm X 27cm) affixed with a postal stamp of Rs. 25/- to receive acknowledgement cum Admit Card.

Selection Procedure:

The application received from the candidates shall be scrutinized by a selection Committee constituted by the University. Selection shall be made by the Selection Committee on the basis of their academic performance st BCA/BA/B.Sc/B.Com TDC Examinations as well as on screening test and interview. The details programme for the screening test and viva voce shall be advertised in admission notification. Admission cannot be claimed as a matter of right.

The list of selected candidates shall be notified in the Notice Board of the Directorate and the concerned Department/school and the candidates shall be required to deposit the course fee within the stipulated period. The payment shall be made at the State Bank of India. TU campus Branch, code no. 10495 situated at Suryamaninagar through Bank Challan/ A/C(A/C No.10333227475). A copy of the Bank Challan is to be submitted to the office of the Directorate of Professional Studies, Tripura University, Suryamaninagar at the time of admission.

Examination Pattern:

There shall be a 2-tier evaluation for MCA programme:

- a) Continuous internal evaluation in the form of Periodical class test/Oral test/Class Assignment etc. to be arranged by the Coordinator of the Programme.
- b) Semester end examination to be conducted by the Controller of Examinations, Tripura University.

Eligibility for appearing in the term end exam:

The eligibility for appearing at the examination, the details of the examination pattern, internal assessment, pass marks etc shall be governed by the relevant Rules and Regulations notified by the University from time to time. However, it should be noted that minimum 65% of attendance should be maintained by the students to appear in the term end examinations. Break up is as under:

75% and above -	Collegiate
65% - 75% -	Non-collegiate
Bellow 65% -	Dis-collegite

Non-collegiate students have to pay the Non-collegiate fine applicable as per University rules.

Dis-collegiate students are not eligible to appear in the term end examination.

Student Activities:

Students are trained to develop Communication & Soft-Skill with digital presentation, audio visualization etc. Students participated in inter-Departmental Sports meet and Cultural Events of Tripura University and bagged prizes. Managing of in-house Library, consisting of Books, Journals, News Papers, Periodicals contributed by the teachers and the authority for overnight use.

Student Performance:

Students perform their Final Semester Project works in different organizations / industries / institutes guided by the internal faculty members.

Project Report:

The students are required to prepare and submit a project report under the guidance of the faculty members or a person from industry / organization / institutes as approved by the University.

Dress Code:

Boys : Ash Trouser, White Shirt and Black Shoe and White socks.

Girls : Ash Kameej and White Salwar or Ash Saree and White Blouse.

Course Structure:

The Course Structure for the MCA programme are as follows:

First Semester

		Full Marks
MCA-101A	Basic Electronics	50
MCA-101B	Fundamentals of Communication	50
MCA-102A	Data Structure I	50
MCA-102B	Data Structure II	50
MCA-103A	Computer Organisation and Architecture	50
MCA-103B	Management Principals and Practices	50
MCA-104A	Programming Methodology	50
MCA-104B	Programming in C	50
Laboratory-1		
MCA-105A	Programming in C	50
MCA-105B	Data Structure	50
Laboratory-2		
MCA-106A	PC Software	50
MCA-106B	Digital Electronics	50

Second Semester

MCA-207A	Numerical Methods	50
MCA-207B	Discrete Mathematics	50
MCA-208A	Computer Organisation and Architecture II	50
MCA-208B	Microprocessor I	50
MCA-209A	Operating System I	50
MCA-209B	Operating System II	50
MCA-210A	Data Communication and Computer Network I	50
MCA-210B	System Programming	50
Laboratory -3		
MCA-211A	Microprocessor I	50

MCA-211B	Numerical Programme in Matlab	50
Laboratory -4		
MCA-212A&B	Operating System	100
Third semester		
MCA-313A	DBMS I	50
MCA-313B	Software Engineering I	50
MCA-314A	Object Oriented Programming	50
MCA-314B	Formal language and Automata	50
MCA-315A	Data Communication and Computer Network II	50
MCA-315B	Microprocessor II	50
MCA-316A	Optimization Techniques	50
MCA-316B	Operations Research	50
Laboratory -5		
MCA-317A	DBMS I	50
MCA-317B	Object Oriented Programming I	50
Laboratory -6		
MCA-318A	Network	50
MCA-318B	Microprocessor II	50
Fourth semester		
MCA-419A	DBMS II	50
MCA-419B	Software Engineering II	50
MCA-420A	System Modeling and Simulation	50
MCA-420B	Organization Behaviour	50
MCA-421A	Object Oriented Analysis and Design	50
MCA-421B	Distributed Computing	50
MCA-422A	Design and Analysis of Algorithm	50
MCA-422B	Soft Computing	50
Laboratory -7		
MCA-423A	DBMS II	50
MCA-423B	Object Oriented Programming II	50
Laboratory -8		
MCA-424 A&B	Design	100
Fifth semester		
MCA-525A	Entrepreneurship Development	50
MCA-525B	Industrial Economics	50
MCA-526A	Multimedia and Web Technology	50
MCA-526B	Compiler Design	50
MCA-527A	Elective I	100
MCA-528B	Elective II	100
Laboratory -9		
MCA-529A	Multimedia and Web Technology	100
MCA-530B	Seminar	100
Sixth semester		
MCA-631	Project and Viva Voce	600

Theory:	2000 Marks
Laboratory:	1000 Marks
Project:	600 Marks
Total :	3600 Marks.

Important Dates

1	Last date for submission of filled-in Application form	:: 7th July, Tuesday
2	Written Test	:: 9th July, Thursday, 10 a.m.
3	Viva-voce	:: 9th July, Thursday, 1 p.m.
4	Publication of Result	:: 10th July, Friday, 4 p.m.
5	Commencement of Class	:: 13th July, Monday

Question paper pattern:

All the questions of the Screening test should be multiple choice type and carry the equal mark.

Affix a
Stamp-size
photograph
(Unattested)

Form No. _____

TRIPURA UNIVERSITY
Directorate of Professional Studies
Suryamaninagar 799130

APPLICATION FORM FOR ADMISSION

1. Programme Applied for : **Master of Computer Application(MCA)**
2. Name of the candidate in full (Block Letter) : _____
3. Date of Birth :

Date	Month	Year
4. Sex (Please Tick) : **Male** **Female**
5. Father's Name : _____ Occupation _____
6. Mother's Name : _____ Occupation _____
7. Local Guardian's name : _____
8. Permanent Address : _____
_____ Pin: _____
9. Address for correspondence (if other than permanent address) : _____
_____ Pin: _____
10. Telephone Numbers (Land nos. with STD Code) :

	Land (O)	Land(R)	Mobile
Father			
Mother			
Local Guardian			
11. Category (Please Tick) : GEN SC ST OBC PH
(Enclose self attested photocopy of Certificate from the Competent Authority)
12. Nationality : _____
13. Sports:
- a) Whether National/ State meet participant: : YES NO
- b) If Yes, Name of Event : _____
- c) Year of Participation : _____
14. Details of application fee : Amount: **Rs. 150/- [mode of payment may be either (a) or (b)]**
(Enclose self attested photocopy of Certificate from the Competent Authority)

(a) Draft No.: _____ Date: _____ Name of the issuing bank _____ and branch _____

OR (b) Bank Challan No.: _____ Date: _____

15. Educational Qualification:

Examination Passed	Board/ University	School/ Institute	Year of Passing	Subjects taken	Total Marks	Marks Obtained	% of marks obtained in aggregate	Class/ Division
Madhyamik								
H.S. (+2)								
Bachelor Degree								
Other (Specify)								

16. Declaration by the candidate

I do hereby declare that the information given above is true and complete to the best of my knowledge and belief and if any of them is found to be incorrect, my admission shall be liable to be cancelled and I shall be liable to face any disciplinary action as may be decided upon by the University.

Place: _____

Date: _____

Full Signature of the candidate

Note: The following documents (Xeroxed and attested) are to be enclosed with the application form:

1. Admit card/ Certificate of Madhyamik or equivalent examination for age verification.
2. Marksheets of Madhyamik and H. S. (+2) examinations.
3. Citizenship Certificate.
4. Certificate from appropriate authority in case of ST/SC/OBC/PH candidates.
5. Certificate from appropriate authority in case of participant of any National/ State meet.
6. Bank Draft/ Bank Challan of Rs. 150/- .

-----Don't Write Below this line-----

For office use only

A c k n o w l e d g e m e n t - c u m - A d m i t C a r d

Form No. _____

Received an application from _____ for admission to MCA Programme.

Date of submission: _____

Signature of Receiving Staff

(Bring this slip at the time of Screening Test and Viva-voce Examination)