

CHOICE BASED CREDIT SYSTEM (CBCS)
Regulations for the Master of Computer Application

(For the candidates admitted from the academic year 2020-21 onwards)

1. Eligibility

i) For Admission

A candidate who is a graduate of this University or any recognized University in the main subject/subjects as given below against each or who has passed an examinations accepted by the Syndicate, as equivalent thereto is eligible for admission.

Passed BCA/ Bachelor Degree in Computer Science /Engineering or equivalent Degree, OR passed B.Sc./ B.Com./ B.A. with Mathematics at 10+2 Level or at Graduation Level (with additional Bridge Courses as per the norms of the concerned University). Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying Examination. (The AICTE letter No. "F.No. AICTE/AB/MCA/2020-21" dated 03.07.2020)

Candidates with BCA/Bachelor degree in Computer Science/Engineering will be called "Candidates of Computer Science Stream" and others will be called "Candidates of Non-Computer Science Stream".

Lateral Entry: There is no Lateral Entry.

ii) Degree

The candidates shall have subsequently undergone the prescribed programme of study in a College affiliated to this University for not less than two academic years comprising 4 semesters, passed the examinations prescribed and fulfilled such conditions as have been prescribed thereof.

2. Duration

The duration of MCA programme is two years. Each year shall consist of two semesters, viz. Odd and Even semesters. Odd semester shall be from June/July to October/November and Even semester shall be from November/December to April/May. There shall be not less than 90 working days which shall comprise 450 teaching clock hours for each semester (exclusive of the days for the conduct of University end-semester examinations).

3. Courses in Programmes

A MCA programme consists of a number of courses. The term "course" is applied to indicate a logical part of the subject matter of the programme and is

invariably equivalent to the subject matter of a “paper” in the conventional sense. The following are the various categories of the courses suggested for the MCA programmes.

- i. For MCA (Computer Science Stream Candidates), Core Courses (CC) – 13, Core Practical (CP) – 6, Core Elective (CE) – 4 and Project Work – 1.
- ii. For MCA (Non-Computer Science Stream Candidates), Core Courses (CC) – 13, Core Practical (CP) – 6, Core Elective (CE) – 4, Bridge Course (BC) – 6, Bridge Practical – 3 and Project Work – 1.

4. Project

Each candidate shall be required to take up a Project Work and submit it at the end of the final year. The Head of the Department shall assign the Guide who, in turn, will suggest the Project Work to the student in the beginning of the final year. A copy of the Project Report will be submitted to the University through the Head of the Department on or before the date fixed by the University.

The Project will be evaluated by an internal and an external examiner nominated by the University. The candidate concerned will have to defend his/her Project through a Viva-voce.

5. Semesters

In each semester, Courses are offered in 15 teaching weeks and the remaining 5 weeks are to be utilized for conduct of examinations and evaluation purposes. Each week shall have 30 working hours spread over 5/6 days a week.

6. Credits

The term “Credit” refers to the weightage given to a course, usually in relation to the instructional hours assigned to it. For instance, four/five hour Course is assigned four credits for theory courses and two credits are assigned for three hours laboratory courses. However, in no instance the credits of a Course can be greater than the hours allotted to it.

The total minimum credits required for awarding M.C.A is 90 or 120. The candidates of Computer Science stream will have 90 credits and candidates of Non-Computer Science stream (with Bridge Course) will have 120 credits for the MCA Programme.

7. Course

Each Course is designed with lectures/tutorials/laboratory or field work/seminar/ practical training/assignments/term paper or report writing etc., to meet effective teaching and learning requirements.

8. Examinations

- i. There shall be examinations at the end of each semester, for odd semesters in the month of October/November; for even semesters in April/May.
- ii. A candidate who does not pass the examination in any course(s) may be permitted to appear in such failed course(s) in the subsequent examinations to be held in October/November or April/May. However, candidates who have arrears in Practicals shall be permitted to appear for their arrears in Practical examination only along with Regular Practical examination in the respective semester. This clause is applicable to Courses of 'Bridge Course' also.
- iii. A candidate should get registered for the first semester examination. If registration is not possible owing to shortage of attendance beyond condonation limit/regulation prescribed OR belated joining OR on medical grounds, the candidates are permitted to move to the next semester. Such candidates shall re-do the missed semester after completion of the course.
- iv. Viva-voce: Each candidate shall be required to appear for Viva-voce Examination in defence of the Project only.
- v. For the Project Report, the maximum marks will be 80 percent and for the Viva-voce is 20 percent.
- vi. The results of all the examinations will be published through the College where the student underwent the Course as well as through University Website. In the case of private candidates, the results will be published through the Centres in which they appeared for the examinations as well as through University Website.

9. Condonation

Students must have 75% of attendance in each semester to appear for the examination. Students who have attendance between 65% and 74% shall apply for condonation in the prescribed form with the prescribed fee. Students who have attendance between 50% and 64% shall apply for condonation in prescribed form with the prescribed fee along with the Medical Certificate.

Students who have attendance below 50% are not eligible to appear for the examination. They shall re-do the semester(s) after completion of the Programme (i.e. 2 years).

10. Question Paper Pattern

Section A : 10 Questions x 2 Marks = 20 Marks
(Two questions from each unit)

Section B : 5 Questions x 5 Marks = 25 Marks
(Internal Choice and one set of questions from each unit)

Section C : 3 Questions x 10 Marks = 30 Marks
(Answer any three out of 5 questions and one question from each unit)

11. Evaluation

The performance of a student in each Course is evaluated in terms of percentage of marks with a provision for conversion to grade points. Evaluation for each Course shall be done by a continuous internal assessment (CIA) by the Course teacher concerned as well as by an end semester examination and will be consolidated at the end of the semester. The components for continuous internal assessment are:

Theory		Practical	
Best 2 tests out of 3	- 15 Marks	Continuous performance	- 20 Marks
Seminar	- 5 Marks	Model practical	- 10 Marks
Assignments	- 5 Marks	Record	- 5 Marks
	-----	Viva	- 5 Marks
Total	- 25 Marks		-----
	-----	Total	- 40 Marks

Attendance need not be taken as a component for continuous assessment, although the students should secure a minimum of 75% attendance in each semester. In addition to continuous evaluation component, the end semester examination, which will be a written-type examination of atleast 3 hours duration, would also form an integral component of the evaluation. The ratio of marks allotted to continuous internal assessment and to end semester examination is 25:75. The evaluation of laboratory component, wherever applicable, will also be based on continuous internal assessment and on an end-semester practical examination with 40:60 ratio.

12. Passing Minimum

A candidate shall be declared to have passed in each course if he/she secures not less than 40% marks in the University Examinations and 40% marks in the CIA and not less than 50% in the aggregate, including CIA and University Examinations marks.

Candidates who have secured the pass marks in the end-semester Examination (U.E.) and in the CIA, but failed to secure the aggregate minimum pass mark (U.E. + C.I.A.) are allowed to secure aggregate minimum pass mark by appearing for University Examination only.

Candidates who have failed in the Internal Assessment are permitted to appear for their Internal Assessment marks in the **subsequent semesters** (2 chances will be given) by writing the CIA tests and assignments.

A candidate shall be declared to have passed in the Project work if he/she gets not less than 40% in each of the Project Report and Viva-voce but not less than 50% in the aggregate of both the marks for Project Report and Viva-voce.

A candidate who gets less than 40% in the Project must resubmit the Project Report. Such candidates need to defend the resubmitted Project at the Viva-voce within a month. A maximum of 2 chances will be given to the candidate.

13. Conferment of the Master's Degree

A candidate shall be eligible for the conferment of the Degree only after he/she has earned the minimum required credits for the Programme prescribed there for 90 credits for candidates of Computer Science stream or 120 credits for candidates of Non-Computer Science stream.

14. Ranking : University Rank Examination

1. The University Rank Examination shall be conducted for the toppers (First Rankers) of all the colleges (having passed their examinations in the first appearance within the prescribed duration of the programme) including autonomous / non-autonomous streams and they are required to write two examinations. Absence from an examination shall not be taken as an attempt.
2. The question papers of the examinations comprise objective type questions covering the core courses in each of the Programmes generally followed by both autonomous / non-autonomous streams.
3. The top scorers in this University Rank Examination would be declared as University Rank Holders, irrespective of their grades in their respective University end semester examinations.
4. Rank Certificate will be issued for a Programme as follows
 - a) Only THREE Ranks if the students strength is below 20.
 - b) Only FIVE Ranks if the students strength is above 20 but below 50.
 - c) Only TEN Ranks where the students strength exceeds 50 but is less than 100.
 - d) Only 20 Ranks if the students strength is 100 and above.
 - e) The student's strength of the course concerned will be indicated in the Rank Certificates.

15. Self-Financing Stream

The above regulations shall be applicable for the candidates undergoing the programmes in Self-Financing Stream also.

16. Grievance Redressal Committee

The College shall form a Grievance Redressal Committee for each Course in each Department with the Course Teacher and the HOD as the members. This Committee shall solve all grievances relating to the students Continuous Internal Assessment marks.

17. Transfer of Credits

Students are permitted to transfer their Course credits, wherever applicable, from Centre for Distance Education (CDE) of Bharathidasan University to Regular Stream and vice-versa.

18. Revision of Regulations and Curriculum :

The University may from time to time revise, amend and change the regulations and the curriculum, if found necessary.

19. Grading System

1. Grading

Once the marks of the CIA and the end-semester examination for each of the courses are available, they will be added. The marks thus obtained, will then be graded as per the scheme provided in Table 1.

From the second semester onwards the total performance within a semester and the continuous performance starting from the first semester are indicated by **Semester Grade Point Average (GPA)** and **Cumulative Grade Point Average (CGPA)**, respectively. These two are calculated by the following formulae :

$$\text{GPA} = \frac{\sum_{i=1}^n C_i G_i}{\sum_{i=1}^n C_i}, \quad \text{WAM (Weighted Average Marks)} = \frac{\sum_{i=1}^n C_i M_i}{\sum_{i=1}^n C_i}$$

where 'C_i' is the Credit earned for the Course i; 'G_i' is the Grade Point obtained by the student for the Course i. 'M' is the Marks obtained for the course i and 'n' is the number of Courses **passed** in that semester.

CGPA= Average GPA of all the Courses starting from the first semester to the current semester.

2. Classification of Final Results

- (i) The classification of final results shall be based on the CGPA, as indicated in Table 2.
- (ii) For the purpose of Classification of Final Results, the candidates who earn the CGPA 9.00 and above shall be declared to have qualified for the Degree as "Outstanding". Similarly, the candidates who earn the CGPA between 8.00 and 8.99, 7.00 and 7.99, 6.00 and 6.99, and 5.00 and 5.99 shall be declared to have qualified for their Degree in the respective programmes as "Excellent", "Very Good", "Good", and "Above Average" respectively.
- (iii) Absence from an examination shall not be taken as an attempt.

Table 1

Grading of the Courses

Marks Range	Grade Point	Corresponding Grade
90 and above	10	O
80 and above but below 90	9	A+
70 and above but below 80	8	A
60 and above but below 70	7	B+
50 and above but below 60	6	B
Below 50	N.A.	R.A.

Table 2

Final Result

CGPA	Corresponding Grade	Classification of Final Results
9.00 and above	O	Outstanding
8.00 to 8.99	A+	Excellent
7.00 to 7.99	A	Very Good
6.00 to 6.99	B+	Good
5.00 to 5.99	B	Above Average
below 5.00	R.A.	Re-Appearence

Credit based weighted Mark System is to be adopted for individual semesters and cumulative semesters in the column 'Marks Secured' (for 100).
