

DEPARTMENT OF COMPUTER SCIENCE

S.V UNIVERSITY COLLEGE OF CM&CS

REVISED CURRICULUM FOR MCA PROGRAMME WITH EFFECT FROM

2025-2026



SRI VENKATESWARA UNIVERSITY, TIRUPATI – 517502

INDIA

SRI VENKATESWARA UNIVERSITY, TIRUPATI
SVU COLLEGE OF COMMERCE MANAGEMENT & COMPUTER SCIENCE
2 Year MCA Degree Programme (CBCS) Regulations 2025-
2026 CHOICE-BASED CREDIT SYSTEM (CBCS)

1. Duration of the Program:

The professional postgraduate programme leading to the degree of Master of Computer Applications will extend 2 academic years/over a period of four semesters each semester will normally have duration of 90 working days.

2. Minimum Qualifications for Admission :

Candidates for admission into the first semester of the M.C.A. degree programme must have a B.Tech / B.C.A / B.Sc / B.Com / B.A degree or any equivalent graduation program with Mathematics as one of the subject at 10+2 level or at graduation.

3. Admission Procedure

3.1. Admission into MCA Program will be only through ICET Examination for Indian Students conducted by Andhra Pradesh State Council of Higher Education (APSCHE).

3.2. Admission of Foreign / NRI Students for MCA Program:

- Students should have earned their qualifying degree from a University / Institute recognized by the Association of Indian Universities / similar Indian body.
- Students nominated by Foreign Governments may be accepted to MCA programmes, without any further test / interview, if their request for admission is routed through MHRD / any agency of the Government of India.

4. Structure of the Programme:

The M.C.A. programme has a curriculum, with syllabus consisting of:

- (CC) Core Courses, which give a broad base in the main field of study in the academic programme concerned
 - (SOC) Skill Oriented Courses which provides appropriate Skills in the fields of study in the academic programme concerned.
 - Both Core Courses & Skill Oriented Courses offered with / without Elective Pattern.
 - Elective courses chosen by the student in consultation with the faculty adviser
 - Elective Course: Elective course is a course which can be chosen from a pool of papers.
- It may be:

- Supportive to the discipline of study


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- Providing an expanded scope
- Enabling an exposure to some other discipline/domain
- Nurturing student's proficiency/skill.

An elective may be "Generic Elective" focusing on those courses which add generic proficiency to the students. These electives shall be "Discipline centric".

- Second type elective may be open elective and shall be offered by other disciplines.
- (OOTC) Open Online Transdisciplinary Courses
- Laboratory, project work and software design courses where special emphasis is laid on the application of knowledge to real-life problems.
- The program will also include seminars, Technical Seminars, and practical Industry exposure training, as prescribed by the Board of Studies in the curriculum & syllabus and approved by the Academic Council.
- In addition, the curriculum includes audit courses, in consultation with the faculty adviser.

5. The Credit System:

- Each course has a certain number of credits assigned to it, depending upon whether it is a lecture or tutorial or practical work and the number of periods assigned per week. The practical courses shall include laboratory work and project work.
- **The credits are assigned according to the following pattern:**
 - 1 credit for each lecture period/week,
 - 1 credit for each practical session of 2 periods/week &
 - 2 credits for each project session of 3 periods / week.

6. Minimum Instruction Days:

- The normal duration of MCA Course is four semesters.
- Semesters, I, II, III, shall consist of a minimum of 90 instruction days (based on six instruction days per week) excluding the days allotted for tests, examinations and preparation holidays.
- Fourth semester shall consist of a minimum of 15 weeks for undertaking major project work either in the College or any of the recognized Public Service Sectors/ Government Sectors, National Laboratories and Industrial Houses or any other organizations approved by the Department among these 15 weeks first 4 weeks are allocated for teaching of One SOC papers.
- This semester also includes (OOSDC) Open Online Skill Development Course (NPTEL/SWAYAM).


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7. Course Registration:

Every student has to register for the set of courses offered by the Department in that semester including OOTC / OOSDC and Audit courses with the total number of their Credits being limited by considering the permissible weekly contact hours.

8. Credits Required for Award of MCA Degree:

A student earns credits by passing courses every semester. A student, who has registered the M.C.A. degree programme, has to acquire **94** credits to be come eligible for the award of the degree.

9. Evaluation of Academic Performance:

The performance of the students in each semester shall be evaluated paper wise. The Scheme of instruction and Examinations shown in Annexure -I shall be followed. The distribution of marks between sessional work (based on internal assessment) and University Examination is as follows:

Paper Category	Sessional Marks	University Examination Marks
Theory	30/25	70/50
Practical	25 Designing of the Program (10) + Program Execution (10) + Viva-Voce(5)	50 Record (10) + Designing of the Program (10) + Program Execution(20) + Viva Voce(10)
Seminar / Technical Seminars / Group discussion	Content Preparation + Communication Skills + Presentation Skills + Attempting Queries	
Minor Project Work	25 Presentation(10) + Execution (10) + Viva Voce (5)	50 Documentation (10) + Presentation(10) + Execution(20) + Viva Voce (10)
Major Project Work	100 Project Documentation (50) Presentation(30) + Viva Voce (20)  Prof. M. PADMAVATHAMMA CHAIRPERSON BOS COMPUTER SCIENCE (COMBINED) DEPARTMENT OF COMPUTER SCIENCE S.V. UNIVERSITY, TIRUPATI-517 502	200 paper based on project should be submitted to the National / International Conference and Published in the Proceedings Or paper based on project Should be published in National / International Journal (50 Marks) 1. Project Documentation : 50 Marks 2. Presentation : 50 Marks Viva Voce : 50 Marks

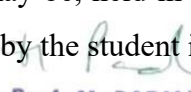
- For both Theory and Laboratory papers two Internal Assessments will be conducted and best of two Assessments considered for award of Sessional marks. The duration of the these tests will be 2 hours. These sessional marks are to be communicated to the Controller of Examinations Office on or before the commencement of the end Semester examination.

10. University Examinations:

- 10.1. For each theory subject, there shall be a comprehensive University Examination of three hours duration. Setting of Question papers shall be done by external examiners from the panels recommended by the Board of Studies.
- 10.2. (a) For each practical subject, the University Examination shall be conducted by one Internal examiner and one external examiner/two examiners.
(b) Viva -Voce examination in practical subject shall be conducted by Examiners (One Internal and One External Examiner/Two Examiners)
- 10.3. Viva-Voce Examination in Minor Project Work shall be conducted by One Internal Examiner and One External Examiner / Two Examiners
- 10.4. Viva-voce examination in Major Project Work shall be conducted by a committee consisting of Two External Examiners and One Internal Examiner / Three Examiners (or) One Chairman and Two Examiners
- 10.5. (a) The Examiners for Practical examinations and Viva-voce examinations (Stated in 10.2) shall be appointed from among the panels submitted by the Chairperson/Chairman of the Board of Studies.
(b) The Examiners for Project report evaluation for Minor/Major Project Works and Viva Voce examination for Minor/Major Project Works (Stated in 10.3, 10.4) shall be appointed from among the panels submitted by the Chairperson/Chairman of the Board of Studies.
- 10.6. The internal examiners for theory/practical/minor project work shall have at least three years of teaching experience at PG level in ratified position.
- 10.7. The internal examiners for major project work shall have at least five years of teaching experience at PG level in ratified position.

11. Attendance Requirements:

- 11.1. Regular course of study, in a semester, means a minimum average attendance of 75% in all the papers computed by totaling the number of periods of lectures, tutorials, and practical's and project as the case may be, held in every paper as the denominator and the total number of periods attended by the student in all papers, as the numerator.


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- 11.2. However, a student has to put in a minimum attendance of 50% in each subject, in addition to the condition laid down in clause 11.1.
- 11.3. No consideration whatsoever in attendance will be shown to any student for late admission due to any reason.
- 11.4. Condonation of shortage of attendance may be recommended provided a student puts in at least 62.5% attendance, in all the papers put together as calculated in clause 11.1 above, along with a minimum of 50% attendance in each subject as stated in clause 11.2, and provided the Principal is satisfied with the reason for shortage of attendance.
- 11.5. A student, who could not satisfy these requirements of attendance as given in clauses above, in any semester, shall have to repeat that semester.
- 11.6. A student shall not be permitted to study any semester for more than three times during the course of study.
- 11.7. A certificate of satisfactory attendance must be submitted by the student from the organization where he/she undertakes Project Work. For the above purpose, the candidate is not expected to avail more than 12 working days of leave of absence.
- 11.8. Further, a student is required to complete the course of study satisfying the attendance requirements in all the four semesters, within a period of first twelve semesters from the time of admission, failing which he/she shall forfeit his /her seat.
- 11.9. A student, who has not satisfied the minimum attendance requirements in any semester, may repeat that semester after obtaining written permission from the Principal, canceling the previous record of attendance and sessional marks of that semester. However, this facility may be availed by any student not more than twice during the entire course of study and the entire course of study shall be within the first twelve semesters as stipulated in clause 11.8.

12. Academic Requirements:

- 12.1. A candidate shall be declared to have passed whole examination of a semester if he/she secures a minimum aggregate of 50% along with minimum marks of 40% in the University Examination in each theory and practical paper, including project work. Aggregate for this purpose shall mean the total marks obtained in the University Examination and sessionals put together in all the papers of that semester.
- 12.2. A candidate who secures a minimum aggregate of 50% in any semester as specified in clause 12.1, but fails to secure the paper minimum of 40% in the University Examination in any paper, shall be declared to have failed in that paper. The candidate may appear for the University Examination in such papers as and when conducted and pass by securing the subject minimum of 40% in each of such papers.

- 12.3. A candidate, who could not secure the minimum aggregate of 50% in any semester, as given in clause 12.1, shall be declared to have exempted in such theory papers in which he/she secured a minimum of 50% of the marks in the University Examination.
- 12.4. A candidate who could not secure the minimum aggregate of 50% in any semester, as given in clause 12.1, shall be declared to have exempted in such practical papers in which he/she secured a minimum of 40% in the University Examination and a minimum of 50% of the marks in the University Examination and sessionals put together in each of such papers.
- 12.5. A candidate has to appear for all the other papers in which he/she has not satisfied the stipulations of clauses 12.3 and 12.4, and pass compartmentally by satisfying the stipulations stated in clauses 12.3 and 12.4. Rechecking of the aggregate shall not arise when a candidate opts for compartmental passing.
- 12.6. Candidates who would not like to avail themselves of the facility of compartmental pass given in clauses 10.3, 10.4 and 10.5 may reappear for the whole examination of that semester, after canceling the previous result. In such a case, clauses 12.1 to 12.5 shall apply in that order.
- 12.7. Candidates shall register for improvement in one or more theory papers of a semester indicating the same in the application form. However, improvement facility is not extended to practical and project work papers.

NOTE: The question of checking the aggregate shall arise only when the candidate registers for the whole examinations for the first time or when he/she registers for the whole examinations at a subsequent attempt after having canceled the previous result.

13. Condition of Promotion:

A candidate shall be promoted to the next semester, if he/she satisfies the minimum attendance requirements of that semester of MCA as stipulated in clause 12.

14. Award of Degree:

The degree of MCA shall be conferred on a candidate who has satisfied the following conditions:

- 14.1. The candidate, after admission to the MCA program of the University, must have studied each of the four semesters of MCA program at least once in any college to which affiliation is accorded by S.V. University to offer MCA Programme.
- 14.2. The candidate must have satisfied minimum attendance requirements as stipulated in clause 11, and minimum academic requirements as prescribed in clause 12, in each of the four semesters of the MCA program.
- 14.3. The Programme of Study for the M.C.A. Degree shall cover normally a period of two


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academic years, comprising of four semesters and No student shall be permitted to complete the course of study of M.C.A. Degree earlier than four semesters or to take not more than twelve consecutive semesters, failing which he / she shall forfeits his / her seat.

15. Award Grades and Grade Points:

15.1. After a candidate has satisfied all requirements for the award of the degree as specified in clause 14, he/she shall be placed in one of the following three classifications, irrespective of whether the candidate passed compartmentally or otherwise, even after the regular period of study of four semesters.

Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale. **Letter Grade:** It is an index of the performance of students in a said course.

Grades are denoted by letters O, A+, A, B+, B, C, P and F.

Semester Grade Point Average (SGPA): It is a measure of performance of work done in a semester. It is ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places

$$\text{SGPA (Si)} = \sum(C_i \times G_i) / \sum C_i$$

where C_i is the number of credits of the i th course and G_i is the grade point scored by the student in the i th course.

The **CGPA** is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e.

Cumulative Grade Point Average (CGPA): It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places

$$\text{CGPA} = \sum(C_i \times S_i) / \sum C_i$$

Where S_i is the SGPA of the i th semester and C_i is the total number of credits in that semester. The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.


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Letter Grades and Grade Points

A 10 point grading system with the following letter grades is to be followed:

Letter Grade	Grade Point
O (Outstanding)	10
A+(Excellent)	9
A(Very Good)	8
B+(Good)	7
B(Above Average)	6
C(Average)	5
P (Pass)	4
F(Fail)	0
Ab (Absent)	0

A student obtaining Grade F shall be considered failed and will be required to reappear in the examination.

For non credit courses ‘Satisfactory’ or ‘Unsatisfactory’ shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA

For this purpose, aggregate shall mean the aggregate of the marks in the University Examinations and sessional put together at all four semester of MCA.

- 15.2. A Candidate, before and even after becoming eligible for the award of the Degree, may reappear for the University Examination, as and when conducted, in any of the theory subjects, which he/she has already passed, for the purpose of improving the aggregate. However, this facility cannot be availed by a candidate who has taken the Provisional pass Certificate. Candidates shall not be permitted to appear for University examination in Practical papers including project work for the purpose of improvement.

16. Award of Rank:

The rank shall be awarded based on the following:

- 16.1. Ranks shall be awarded for the top ten students appearing for the regular MCA examination.
- 16.2. Only such candidates, who satisfy the minimum academic requirements as stipulated in clause 12, by the end of their four semester, and become eligible for the award of the degree, are eligible for the award of rank. Candidates, who lose one or more semesters for any reason whatever, are not eligible for the award of rank.
- 16.3. For the purpose of awarding rank, aggregate of marks in University Examination and Sessionals put together at all the semesters of MCA, secured at the first attempt only, shall

be taken into account.

- 16.4. Award of Prizes, scholarships and other honors shall be according to the rank secured by a candidate, consistent with the desire of the Donor.

17. Transitory Regulations:

- 17.1. Candidates who studied the MCA Course under the Regulations (Semester Pattern) 2 and revised syllabus from 2015-16 , 2016-2017 & 2020-2021 but who could not satisfy the minimum attendance requirements in any semester may join the appropriate semester in the Regulations (For the full time, regular course) – 2020-21 for the remaining part of the course and be governed by the Regulations of that batch from then on. Any candidate admitted under the Regulations who wished to join under the Regulations, 2020-2021 under any other circumstances may also join the appropriate semester and be governed by the Regulations-2020-21 from that semester onwards.
- 17.2. University Examinations shall be conducted three more times, after the last regular examination, in all those papers prescribed under the Regulations, and revised syllabus from 2015-2016, 2016-2017 & 2020-21.
- 17.3. Candidates, who satisfied the minimum attendance requirements in any semester under the Regulations, and revised syllabus from 2015-16 & 2016-2017 but who are yet to pass some papers of that semester even after Three chances shall appear for the equivalent papers under Regulations-2020-2021, specified by the Chairman / Chairperson of the Board of Studies.

18. Amendments of Regulation:

The University may, from time to time, revise, amend, or change the Regulations, Scheme of Examinations and Syllabi, whenever necessary.


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