



SRI MANAKULA VINAYAGAR
ENGINEERING COLLEGE
(An Autonomous Institution)

Puducherry

ACADEMIC REGULATIONS 2020
(R-2020)

MASTER OF COMPUTER APPLICATIONS

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SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

POSTGRADUATE PROGRAMME IN MASTER OF COMPUTER APPLICATIONS (Regular / Four Semesters)

REGULATIONS 2020

CHOICE BASED CREDIT SYSTEMS (CBCS)


1. INTRODUCTION

- 1.1** Sri Manakula Vinayagar Engineering College (SMVEC) envisions to foster knowledge, skills, attitude and values of the aspiring youth to enable them to become global citizens. To achieve this process, the institution has evolved a flexible integrated academic curriculum designed in accordance with the Outcome Based Education (OBE) which is acquired by the learners of a programme under 'Learner Centric' Model.
- 1.2** The Post Graduate Programme in Master of Computer Applications (MCA) shall be governed by the rules and regulations provided in this version of Academic Regulations (R-2020). The curriculum of the Programme provides broad based knowledge, quality content of courses, academic flexibility and scope for multi-disciplinary learning activities and opportunity for industry-oriented projects.
- 1.3** The provisions made in this document shall govern the policies, procedures, curriculum, conduct of the examinations and evaluation systems.
- 1.4** The semester system shall be adopted for academic activities in the college. Normally, all odd semesters of MCA Programme shall start in third week of June and even semester starts in third week of December.
- 1.5** Stringent evaluation norms shall be followed to maintain the quality of education. The examination system shall be transparent and governed by the rules and regulations with time bounded activities.

Objectives of CBCS

- ❖ To shift focus from the teacher-centric to student-centric education.
- ❖ To make education broad-based on par with global standards

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- ❖ To help students to earn credits by choosing unique combination of courses.
 - ❖ To create an international exposure to students by providing International Certificate Courses.
 - ❖ To provide necessary flexibility to students to gain the vital life skills.
 - ❖ To equip students to keep abreast of industrial requirements and societal needs.
- 1.6** The rules and regulations shall be subjected to amendment made by the Academic Council (AC) from time to time based on the recommendations of the Board of Studies (BoS).

2. PRELIMINARY DEFINITIONS AND NOMENCLATURE


College	:	Sri Manakula Vinayagar Engineering College
University	:	Pondicherry University
Programme	:	MCA Degree
Discipline/ Department	:	Computer Applications
Course	:	Theory /Practical subject that is normally studied in a semester.
Professional Core Course	:	Compulsory course in the curriculum
Professional Elective Course	:	A course that can be chosen from the listed courses by a student based on his/her interest which is not covered in professional core courses.
Head of the Institution	:	The Director cum Principal
Controller of Examinations (CoE)	:	The authority who is responsible for all Examination related activities of the institution
L – T – P – PW – C	:	L - Lecture, T- Tutorial, P- Practical, PW–Project Work and C - Credits respectively
Curriculum	:	The various components / courses studied in the programme that provides an appropriate outcome in the chosen branch of study.
Semester Grade Point Average (SGPA)	:	Weightage of average grade points of subjects in a semester.
Cumulative Grade Point Average (CGPA)	:	Weightage of average grade points of all subjects in all semesters completed by a student.

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Odd semester	:	The semester that is typically from June to November
Even semester	:	The semester that is typically from December to May
Period	:	50 minutes duration of a theory / practical class
Day	:	8 periods in a calendar day
Enrolment	:	Enlistment of a student on roll in an academic year
Arrear	:	A course in which a student has not fulfilled the examination passing criteria in the end semester examination.
CAT	:	Continuous Assessment Test
CAM	:	Continuous Assessment Marks
ESE	:	End Semester Examination
ESM	:	End Semester Examination Marks
EEC	:	Employability Enhancement Course
Regular Examination	:	End semester examination conducted for the courses prescribed in the curriculum of that semester
Arrear Examination	:	End Semester examination conducted for the students who have not fulfilled the examination passing criteria in the previous attempt(s).
Supplementary Examination	:	An additional examination exclusively conducted in the fourth semester for the students with a maximum of two arrears.
First Attempt	:	Appearing for the end semester examination of a course in a semester for which the students have registered. If a student failed to appear for the end semester examination after registration, it is also treated as first attempt
Academic Council (AC)	:	An Apex academic body having the power to scrutinize and approve the proposals with or without modification of the Board of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto etc.,
Board of Studies (BoS)	:	An Apex academic body having the powers to approve the various courses, suggest teaching methodologies, coordinate research and other academic activities keeping in view the objectives of the college.
Academic Standing Committee (ASC)	:	ASC shall perform the functions under emergent situations which are subject to ratification by the Academic Council (AC)
Academic Appeals Board (AAB)	:	If a student finds some anomaly in the award of marks in the Continuous Assessment Test / End Semester examination, he/she can make an appeal to the <i>Academic Appeals Board</i> for review of marks awarded.

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Departmental Advisory Committee (DAC)	:	The Committee that formulates a process to review the post implementation effects of curriculum and suggest various measures to ensure academic standard and its excellency of the course offered by the department.
Department Consultative Committee (DCC)	:	Review, revises and prepares curriculum structure based on the institutional policy and suggests improvements in syllabus of a course(s) prepared by course teacher(s) and forwarded the curriculum to BoS for further recommendations. It monitors the academic progress and conduct of classes throughout the semester and takes appropriate corrective measures to improve the quality of curriculum delivery.
Programme Academic Coordinator (PAC)	:	Coordinates all the academic activities of the department viz. Curriculum revision, framing of syllabus, time table, re-registration of course(s), display and submission of attendance status and BoS meeting as a member secretary.
AICTE	:	All India Council for Technical Education
UGC	:	University Grants Commission
NBA	:	National Board of Accreditation
NAAC	:	National Assessment and Accreditation Council
CRC	:	Complaint Redressal Committee

3. ADMISSION ELIGIBILITY

The norms for admission, eligibility criteria such as marks and age limit will be as prescribed by the University from time to time.

3.1 Educational Eligibility

Candidates for admission to the first semester of MCA Degree programme shall be required to have Passed Bachelor of Computer Application / Bachelor Degree in Computer Science Engineering or equivalent Degree / 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 with at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying Examination are eligible.

3.2 Age Limit

There is no age limit for the MCA programme.

4. ACADEMIC STRUCTURE

4.1 Duration of the Program

A student after securing admission shall pursue MCA programme for a minimum period of 2 academic years (4 semesters), if not he / she has to complete the degree within the maximum period of 4 years (8 semesters) starting from the commencement of the first semester.

4.2 Medium of Instruction

The medium of instruction for the entire MCA degree programme shall be only in English.

5. CURRICULUM STRUCTURE

According to the National Board of Accreditation (NBA), the curriculum has to be evolved after finalizing the Programme Educational Objectives (PEOs) and the corresponding Programme Outcomes (POs). The Programme Specific Outcomes (PSOs) are to be evolved based on the knowledge and skills to be developed over the duration of programme. The curriculum that evolves should broadly ensure the achievement of the POs and PSOs, and thus the PEOs of the programme.

5.1 Category of Courses and its Credit Distribution

Course work is measured in units called credit hours or simply credits. One credit per lecture hour per week is assigned for each theory course. Laboratory courses and tutorial are assigned for an hour with 0.5 credits per week. The credits details of courses are shown in Table 1.

Table 1 Credits details of courses

Nature of Course	Number of hours			Credits
	L	T	P	
Theory	3	0	0	3
Theory with Tutorial	3	1	0	4
Practical	0	0	4	2
Mini Project	0	2	4	3
Project work and Viva-voce	0	0	0	12

Total Number of Credits	Between 85 to 90
Number of credits per Semester	Between 22 to 24

5.2 Course Numbering Scheme

Each course is denoted by a unique code consisting of 9 alphanumeric characters. The details of the numbering scheme are shown in Fig. 1

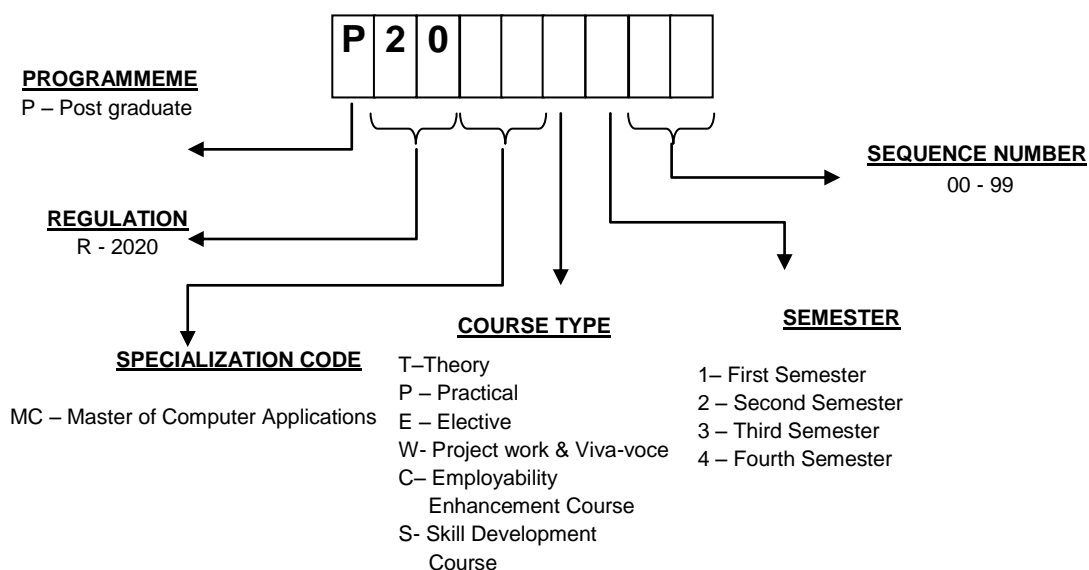


Fig. 1 Course code formation

5.3 Professional Electives

Each student shall choose a course from the professional elective list specified in the curriculum relating to his/her degree programme in consultation with the Programme Academic Coordinator and the HoD.

5.4 Project Work

Each student shall be required to undertake a suitable project in industry / research organization / department in consultation with the Head of the Department and the project guide. A student shall register for the Mini Project and Project & Viva-voce in 3rd and 4th semester respectively.

1. **The process and guidelines for industry / Research organization projects**

- Every student, either individually or in a group of two students, shall undertake Mini project during the third semester. The final semester (4th semester) project work is compulsory for the students and each student has to undertake his/her project work in an IT industry / research organization or Institute in consultation with the project guide and the Head of the Department. In case of project work at industrial / research organization, the same shall be jointly supervised by an internal project guide in the institution and an external guide from the organization. The departmental committee shall decide the schedule appropriately.
- Director/ Dean Academics shall issue permission letter to the students on the recommendation of HoD.
- An internal guide from the department and mentor from the industry/organization where the project is to be undertaken shall be allocated to the student. Both guides should discuss and finalize the scope of the project work and monitor the progress together.
- Student should maintain a record on the progress and get the approval from both internal and external guides at least twice in a month either by physically or through email communication. If the progress is not found satisfactory due to

any reason, the Guide should take the corrective action, after consulting with Dean Academic through HoD for further extension of the project completion.

- Progress report and certificate of completion of the project work from the industry / organization shall be submitted by the student to the respective project guide. The mode of evaluation shall be same as adopted for students carrying out in-house project.

2. The Process and guidelines for in-house project

- Project work will be assigned to a single student under the supervision of project guide(s).
- Students execute their in-house project in the Department with proper approval from the HoD through the respective project guide.

5.5 Employability Enhancement Courses

5.5.1 Certification Courses: Students shall choose a National/International certification course of 40-50 hours duration specified in the curriculum, which will be offered through Centre of Excellence. These courses carry no credit and will not be considered for CGPA calculation.

5.5.2 Skill Development Courses: Skill development courses are non-credit courses, provided to enhance the knowledge and skill set of the students. It is mandatory for every student to register online courses like MOOC / SWAYAM / NPTEL etc., approved by the Department committee comprising of HoD, Programme Academic Coordinator and Subject Experts. Students have to complete relevant online courses successfully. The Committee will monitor the progress of the student and recommend the grade (100% Continuous Assessment pattern) based on the marks secured in online examinations.

6 COURSE ENROLMENT AND REGISTRATION

6.1 Course Registration

The registration for each semester courses shall be done in online mode which will commence preferably 10 working days prior to the last working day of the current semester.

- 6.1.1** After registering for all the courses, the student must attend the classes, satisfy the attendance requirements, earn Continuous Assessment Marks (CAM) and appear for the End Semester Examinations (ESE).

6.2 Arrear Course Registration

In the first attempt of writing the End Semester Examination of a course if a student fails, he/she can retain the existing Continuous Assessment Marks (CAM) earned in his/her first attempt and proceeds to write the supplementary exams / End Semester Examinations as and when they are conducted. Otherwise, if a student wishes to re-earn Continuous Assessment Marks (CAM), he/she has to re-register by paying the prescribed fee for the course when it is offered next in the subsequent academic year. The existing CAM will get nullified. The student has to re-earn the CAM by taking-up all the internal tests, assignments and presentation as per the norms of regulations.

7. EXAMINATION

7.1 Requirements for Appearing End Semester Examination

A student is expected to maintain 100% attendance in all courses as attendance also carries internal marks (Clause 9.3). A student will be qualified to appear for end semester examinations in a particular course of a semester only if he/she satisfies the below mentioned requirements.

- 7.1.1** The student is permitted to appear for End Semester Examinations, only if he/she maintains minimum 75% of attendance. If he/she secured attendance greater than or equal to 60 % and less than 75% in any course in the current semester can be considered in case of the following reasons:
- Medical reasons (hospitalization / accident and or illness)
 - Due to participation in sports events or any competitions or NSS activities with prior written permission from the Head of the Institution / Dean Academics through the Head of the Department
- He/she has to pay the necessary condonation fee prescribed by the college authority with necessary supporting documents for his/her absence.
- 7.1.2** The student shall be considered for exemption from the prescribed attendance requirement for the reasons stated above and if exempted, the student shall be permitted to appear for the end semester examination of that course. In all such cases, the students should have submitted the required documents on joining after the absence, to the Head of the Department through Programme Academic Coordinator
- 7.1.3** If any student is suspended for any reason during the semester, the days of suspension of a student on disciplinary grounds will be considered as days of absence for calculating the percentage of attendance for each individual course.
- 7.2 Movement to Next Higher Semesters**
- 7.2.1** A student can move to the next semester provided only if he/she fulfills the minimum attendance requirement for appearing in the end semester examination.
- 7.2.2** The student who has failed to fulfill the above conditions will not be permitted to move to the higher semester, and shall rejoin the programme in the next academic year in the same semester after fulfilling all the requirements as per the regulations.
- 7.2.3** A student who rejoins the programme after the temporary break shall be governed only by the rules, regulations, course of study and syllabi in force, at the time of rejoining the course.
- 7.3 Provision for Withdrawal from Examination**
- 7.3.1 Complete Withdrawal (applicable only for nil arrear students):** A student, who is eligible to appear for the semester examinations, will be permitted to withdraw from appearing for the entire End Semester Examinations as one unit (*Complete Withdrawal*) for valid reasons and on the recommendation of the Head of the Department and with the approval of the Dean Academics. Complete Withdrawal application shall be made before the commencement of the first examination pertaining to the semester. Such withdrawal shall be permitted **only once** during the entire programme.
- 7.3.2** A student who has completely withdrawn from appearing for end semester examinations in a particular semester should appear for the examinations of all the withdrawn subjects in the next semester itself.
- 7.3.3** If all other conditions are satisfactory, the candidate who withdraws is also eligible to be awarded DISTINCTION whereas he/she is not eligible to be awarded a rank.

7.4 Scribe for End Semester Examination

7.4.1 If any student is not in a position to write end semester examination on account of temporary physical disability or injury due to accident and applies for a scribe (writer) with medical certificate obtained from a medical officer not below the rank of Assistant Director level, then a scribe shall be allowed / assigned by CoE to such student. Normally, such scribe shall neither be a student nor a degree holder of any technical programme having similar competency. The student shall, however, apply in a prescribed proforma to CoE requesting permission for using the scribe well in advance, not on the day of examination, to make necessary arrangements (Scriber, Separate Examination Hall etc.). CoE shall take the undertaking from the scribe in a prescribed proforma. Such student shall produce the permission letter from the CoE for using scribe to the invigilator. He/She should pay the TA/DA and other charges to the scribe. Scribe shall be allowed extra time as per the norms specified by the Controller of Examinations.

7.4.2 Student admitted with differently abled category and those who can write, but at much slower speed as compared to normal student, he/she may be allowed an extra time of 30 minutes for 50 marks paper and 45 minutes for 75 marks paper to write the examination for all the courses. He/She shall seek permission from CoE for the extra time on account of his/her percentage of disability by producing necessary medical certificate from medical officer not below the rank of Assistant Director.

7.5 Supplementary Examinations

Supplementary Examination is an additional examination which will be conducted after declaration of the end semester examination / revaluation results. This examination will be conducted in fourth semester for the students who are having a maximum of two arrears only. For supplementary examination, the continuous assessment marks of the last attempt will be considered.

7.6 Malpractice in Examinations

If any student caught red-handed due to malpractices in examinations then he/she shall be punished as per the recommendations of the Complaint Redressal Committee (CRC) constituted by CoE with the approval of Head of the Institution. The CRC shall inquire and decide the punishment for the unfair means as specified in the Examination manual.

8. ASSESSMENT PROCEDURES FOR AWARDING MARKS

The total marks for each course (Theory, Practical, and Mini Project) will be 100 and Project work and viva-voce will be 500, comprising of two components namely Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM). However, there are EEC and Skill Development Courses that have only continuous assessment for 100 marks without an End-Semester Examination. The Assessment Components for each course is as illustrated in Table 2.

Students may take National/International reputed professional certification courses after due approval from Department Consultative Committee (DCC). After completion of the course, the DCC has to verify the relevant documents and certificates. The credits and grades shall be mapped by the DCC and recommended to CoE through the HoD.

Table 2 Assessment Components

Sl. No	Category of Course	Continuous Assessment Marks (CAM)	End Semester Examination Marks (ESM)
1	Theory Courses	25	75
2	Practical Courses	50	50
3	Mini Project	50	50
4	Project work and Viva-voce	250	250
5	Technical Seminar and Report Writing	100	-
6	Employability Enhancement Courses (EEC)	100	-

9. DISTRIBUTION OF MARKS**9.1 Marks Distribution of Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM)**

The scheme of assessment for Continuous Assessment Test and weightage for each assessment is shown in Table 3 and 4 respectively. Table 5 shows the scheme for End Semester Examinations.

Table 3 Scheme for Continuous Assessment Marks

S. No	Course Type	Continuous Assessment Components					Review-1	Review-2	Review-3	Review-4	Outcome (Presentation / Publication of research work in conferences/UGC-CARE listed Journals)	Attendance	Total Marks
		Test Marks	Average of Pre /post-Test / viva for each Lab exercises	Average of marks for exercises report for each Lab exercises	Model Exam / Report/viva-voce	Assignment**							
1	Theory	15	-	-		5						5	25
2	Practical	-	10	15	15							10	50
3	Mini Project				15		5	10	10			10	50
4	Project Work & Viva-voce				50		25	25	50	50	50	-	250

** A minimum of three assignment has to be given for each course and out of them, the best two are to be considered for computation of internal assessment marks.

Table 4 Weightage of Assessment for Theory Courses

S. No	Test	Portion for Test	Test Marks	Duration of Test	Weightage for Internal Marks
1	CAT – 1	2 units Unit 1 and 2	50	1 ½ hours	5*
2	CAT – 2	2 units Unit 3 and 4	50	1 ½ hours	
3	CAT – 3	5 Units (Unit – 1 to 5)	75	3 hours	10
Continuous Assessment for Theory courses					15

* Two Continuous Assessment Test (CAT 1, 2) to be conducted for every theory course and, out of them, the best to be considered for computation of internal assessment marks.

Table 5 Scheme for End Semester Examinations

S. No	Course Type	Written Exam	Practical Exam	Practical exam viva	Report and viva - voce	Publication of papers / prototypes / patents etc	Total Marks
1	Theory	75	-	-	-		75
2	Practical	40		10	-		50
3	Mini Project	-		-	50	-	50
4	Project Work and Viva-voce	-	-	-	250	-	250

9.2 Question Paper Pattern– Theory

The question paper for the continuous assessment tests must follow Revised Bloom's Taxonomy and indicate expected knowledge level and Course Outcomes (COs). Question paper pattern for CAT and ESE is shown in Table 6 (a) and (b) respectively.

Table 6 (a) Question Paper pattern for CAT 1 and 2

2 Mark Questions	11 Mark Questions	Total Marks
3 (out of 5 Questions)	4 (out of 5 Questions)	50

Table 6 (b) Question Paper pattern for CAT 3 and End Semester Examination

2 Mark Questions	11 Mark Questions	Total Marks
10 (At least two questions from each unit)	5 (5 Questions in either or type from each unit)	75

9.3 Distribution of Marks for Attendance

- (a). *Theory courses for which there is an internal marks of 25 that includes 5 marks for attendance as shown in Table 3.*

The distribution of 5 marks for attendance is as follows:

- 5 marks for 95% and above
- 4 marks for 90% and above but below 95%
- 3 marks for 85% and above but below 90%
- 2 marks for 80% and above but below 85%
- 1 mark for 75% and above but below 80%

(b). Practical courses for which there is an internal marks of 50 that includes 10 marks for attendance as shown in Table 3.

The distribution of 10 marks for attendance is as follows :

- 10 marks for 95% and above
- 8 marks for 90% and above but below 95%
- 6 marks for 85% and above but below 90%
- 4 marks for 80% and above but below 85%
- 2 marks for 75% and above but below 80%.

9.4 Criteria for Assessment of Project Work

- Interim project report shall be submitted before the project reviews with the approval of the guide. The Project Report, prepared according to the approved guidelines and duly signed by the guide and the Head of the Department shall be submitted to the department as per the timeline announced by the department.
- The End Semester Examination for the project work and viva-voce shall consist of an evaluation of the final project report by an external examiner, followed by a viva-voce examination conducted by a committee consisting of the external examiner and an internal examiner.
- The Continuous Assessment Marks (CAM) and End Semester Examinations Marks (ESM) distribution for the Project Work is given in Table 7.

Table 7 CAM & ESM break-up for Project Work and Viva-voce

Sl. No	Description	Weightage
1	Continuous Assessment Marks (CAM)	
a	Review 1	Review Comment# 15
		Guide 10
b	Review 2	Review Comment# 15
		Guide 10
c	Review 3	Review Comment# 25
		Guide 25
d	Review 4	Review Comment# 25
		Guide 25
e	Viva-voce	50
f	Outcome* (Presentation / Publication of Research Work in Conferences / UGC-CARE listed Journals)	50
	Total CAM	250
2	End Semester Marks (ESM)	
a	Evaluation of final project report and Viva-voce	250
	Total ESM	250
	Total Marks	500

* Outcome, in terms of paper publication, patents, product development and industry projects shall be awarded by both internal and external examiners, based on the document proof submitted by the student concerned

Review committee consists of internal faculty members nominated by the Head of the Department. The guide of the student being examined shall not be part of the committee.

9.5 Grading for EEC Courses

The EEC Courses are required to be completed to fulfill the degree requirements. These Courses are assessed internally for 100 marks.

10. REQUIREMENTS FOR PASSING THE EXAMINATION**10.1 A student is declared to have successfully passed a theory based course if he/she has secured:**

- A minimum of 50% marks out of 75 marks in the End Semester Examinations.
- A minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM).

10.2 A student is declared to have successfully passed a practical / project based course if he/she has secured:

- A minimum of 50% marks in the End Semester Examinations.
- A minimum of 50% marks on combining both Continuous Assessment Marks (CAM) and End Semester Examination Marks (ESM).

10.3 For EEC Courses, the pass mark is 50% and the marks scored will not be taken into consideration for the SGPA / CGPA calculations.

11. EVALUATION AND GRIEVANCE REDRESSAL MECHANISM**11.1 Evaluation of End semester examination Answer scripts:**

End Semester examination answer scripts (theory) will be evaluated independently by two examiners appointed by the Controller of Examinations and if the difference in marks awarded to an answer script by the examiners is less than 15 percent of the total marks earmarked for the End semester examination, then the average of the marks awarded by the two examiners is taken as the mark scored in the examination. If the difference in marks is greater than 15 percent, then the answer script will be evaluated by a third examiner and the mark awarded by the third examiner is taken as the final score.

11.2 Photocopy of Answer Scripts and Re-totaling :

Students who are not satisfied with the grades awarded in the End Semester Examination of Theory Courses for regular and arrear examinations can seek redressal as follows:

- After declaration of results, photocopy of valued answer scripts with the marks awarded to individual answers shall be made available to the students on submission of an application along with the prescribed fees to Controller of Examinations.
- Students can get their answer scripts re-totaled by submitting an application along with the prescribed fees to the Controller of Examinations.
- The provision for getting the photocopy of valued answer scripts and re-totaling is extended to all the students.

The Controller of Examinations shall get the answer script re-totaled and revise the grade accordingly.

12. LETTER GRADE AND GRADE SHEET

All assessments of a course will be evaluated exactly based on the marks. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain number of points, will be awarded as per the range given in Table 8, based on the percentage of marks obtained by the candidate in each subject.

Table 8 Letter Grade and its range

S.No	Range of total marks	Letter Grade	Grade Points
1	90 to 100	S	10
2	80 to 89	A	9
3	70 to 79	B	8
4	60 to 69	C	7
5	55 to 59	D	6
6	50 to 54	E	5
7	0 to 49	F	0
8	Absent	FA	0
9	Withdrawal from examination	W	0
10	Pass in EEC course	P	0

F – denotes Failure of the course and FA – Failure due to Absent

12.1 Grade Sheet

After declaration of results, grade sheets will be issued to each student, which will contain the following details:

- The College Name and Affiliating University.
- The list of courses registered during the semester and the grades scored.
- The Semester Grade Point Average (SGPA) for the semester.
- The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.
- On completion of a semester, each student is assigned a Semester Grade Point Average which is computed for all the courses registered by the student during that semester.

$$\text{Semester Grade Point Average (SGPA)} = \frac{\sum_i (C_i \times GP_i)}{\sum_i C_i} \quad i = 1 \text{ to } n;$$

Where n= Number of credit courses in that semester.

C_i is the Credit of i^{th} course in that semester and GP_i is the Grade Point earned by the student for that i^{th} course. The SGPA is rounded off to two decimals.

- The overall performance of a student at any stage of the Degree programme is evaluated by the Cumulative Grade Point Average (CGPA) up to that point of time.

$$\text{Cumulative Grade Point Average (CGPA)} = \frac{\sum_i (C_i \times GP_i)}{\sum_i C_i} \quad i = 1 \text{ to } m;$$

Where m = Number of credit courses from 1st semester to the completed semesters, C_i is the Credit of i^{th} course of the completed semesters at that stage and GP_i is the Grade Point earned by the student for that i^{th} course.

Scheme for conversion of CGPA to Percentage (%) marks: Some employers / institutions except the students to provide the details of the percentage (%) of marks scored in the semester examination / degree programme. In this regard, a scheme to convert the Cumulative Grade Point Average (CGPA) to Percentage (%) of marks is shown below:

$$\text{Percentage (\%)} \text{ marks} = \text{CGPA} \times 10$$

13. ELIGIBILITY FOR THE AWARD OF DEGREE

A student shall be declared to be eligible for the award of MCA. Degree provided the student has Successfully completed the course requirements and has passed all the prescribed end semester examinations in all the four semesters within a maximum period of 4 years calculated from the commencement of the first semester.

13.1 Classification of Degree

After successful completion of the programme, degree will be awarded as per the following classifications based on the final CGPA

1. First class with Distinction

Student who satisfies the following conditions shall be declared to have passed the end semester examinations in *First class with Distinction*:

- a) Students who have successfully completed the programme within four consecutive semesters and obtained a final CGPA of 7.5 or above by passing the end semester examination in all the courses from first to fourth semester in the *first attempt* will be declared to have passed in **First Class with Distinction**.
- b) Students who have secured a final CGPA of 7.5 or above but failed to clear the courses offered from first to fourth semester in the first attempt are not eligible for **First Class with Distinction** classification. However, the students who have opted for authorized complete withdrawal (only one time) from examination will also be eligible for **First Class with Distinction** classification but it will not be considered for Ranking.

2. First class

A student who satisfies all the following conditions shall be declared to have passed end semester examinations in First class:

- a) Should have passed the examination in all the courses of all four semesters within two years
- b) Should have obtained a final CGPA of not less than **6.0**, shall be declared to have passed in **First Class**.
- c) Students who have lost the eligibility for **First Class with Distinction** classification by failing to clear the courses offered from first to fourth semester in the first attempt but securing a final CGPA of 7.5 or above shall also be declared to have passed in **First Class**.

3. Second class

All other students (not covered in S.No.1 and 2 under Clause 13.1) who qualify for the award of the degree shall be declared to have passed the examination in Second Class.

13.2 Gold Medals and Ranks

For the Award of Gold Medal and ranks for the programme of study, the CGPA secured from 1st to 4th semester should be considered and it is mandatory that the candidate should have passed all the subjects from 1st to 4th semester in the first attempt. Rank certificates would be issued to the first five candidates.

14. TEMPORARY BREAK OF STUDY FROM THE PROGRAMME

A student shall be permitted to withdraw temporarily from the college for the reason beyond his/her control. The applicable rules are:

- i. After withdrawal, the student shall rejoin next year in the same semester during which the student has withdrawn.
- ii. The student shall apply to Dean Academics through HoD stating the reasons for withdrawal, along with supporting documents, consent letter from his/her parent/guardian and clearance/no due from all the concerned departments.
- iii. Dean Academics shall examine the case and recommend for the approval/ratification from Academic Council (AC) /Academic Standing Committee (ASC).
- iv. A student availing temporary withdrawal from the college under the above provision shall be required to pay such fees and/or charges as may be fixed by the AC/ASC for his/her name to be enrolled. However, it may be noted that the fees/charges once paid shall not be refundable.
- v. The total period of completion of the course reckoned from the commencement of the first semester to which the candidate was admitted shall not exceed 4 years in any case including of the period of discontinuance.

15. TERMINATION FROM THE PROGRAMME

A student shall be terminated from the program in the following cases:


- i. Involved in ragging and not obeying disciplinary rules structured by college.
- ii. Not completing the programme in prescribed period; Students shall have to complete MCA programme in the maximum period of 4 years (8 semesters) from the date of admission. If not completed, such student will be declared as Failed to Complete Technical Education (FCTE). However, genuine cases with proper justification may be referred to AC for extending programme completion period.

16. DISCIPLINE AND CONDUCT

16.1 Any act of misconduct committed by a student inside or outside the campus shall be an act of violation of discipline of the college. Violations of the discipline shall include:

- (a). Interference to teaching, examination, administrative work, curricular or extra-curricular activities and any act likely to cause such disruption.
- (b). Damaging or defacing the property inside or outside the college campus.
- (c). Engaging in any attempt at wrongful confinement of teachers, employees and students of the college.
- (d). Use of abusive and derogatory slogans or intimidators' language or incitement of hatred and violence.
- (e). Ragging in any form ("Ragging means causing, inducing, compelling or forcing a student whether by way of a practical joke or otherwise to do any act that detracts from human dignity or violates his person or exposes him to ridicule or

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to forbear from doing lawful act, by intimidating, wrongfully re-straining wrongfully confining or injuring him or by using criminal force to him or by holding out to him any threat of such intimidation, wrongful restraint, wrongful confinement, injury or the use of criminal offense), as per the directions of Supreme Court of India, is a criminal offence.

- (f). Eve teasing or disrespectful behavior to a student.
- (g). An assault upon or intimidation of, or insulting behavior towards a teacher, officer, employee or student or any other person.
- (h). Getting enrolled in more than one programme /course of study simultaneously.
- (i). Committing forgery, tampering the documents or records, identity cards, furnishing false certificate or false information.
- (j). Organizing instant agitation/meetings without prior permission in the campus.
- (k). Viewing/downloading obscene information/data, images and executable files, sending obscene mails/messages via Facebook/twitter/ other social sites using college servers/personal electronic gadgets in the college premises.
- (l). Sharing the login and password and other details of IT facilities provided to other outside students.
- (m). Refusing to provide an identity card when demanded by any teacher / college authority.
- (n). Consuming or possessing alcoholic drinks, dangerous drugs or other intoxicants in the college campus.
- (o). Possessing or using any weapons and fire arms in the college campus.
- (p). Encroachment of hostel, accommodating guests or other persons in hostels without permission.
- (q). Malpractice in examination
- (r). Indulging in anti-national activities contrary to the provisions of acts and laws enforced by Government.
- (s). Any other act which may be considered by the Head of the Institution or the Discipline Committee to be an act of violation of discipline.

16.2 Any act of indiscipline of a student reported to the Head of the Institution shall be referred to Redressal and Disciplinary Committee of the college. The Committee shall enquire into the charges and recommend suitable punishment if the charges are substantiated. The penalties / punishment / actions may include:

- (a). Written warning and information to the parents/guardian.
- (b). Imposition of fine
- (c). Suspension from the College/Hostel/Mess/Library or availing of any other facility.
- (d). Suspension or cancellation of scholarship/fellowship / studentship or any financial assistance from any source.
- (e). Recover of loss caused to college property.
- (f). Debarring from participation in sports/NSS/student club activities.
- (g). Disqualifying from holding any representative position in the Class / College / Hostel Mess / Sports / Clubs and in similar other bodies.

- (h). Disqualifying from appearing in placement and receiving any awards.
- (i). Expulsion from the Hostel / Mess/Library / Club / College for a specified period by forfeiting fees.
- (j). Debarring from appearing for an end semester examination.

16.3 Student(s) involved in any act of indiscipline /malpractice in examination shall be issued notice to him/her, asked to be present before the Complaint Redressal Committee (CRC) on the day at specified time and venue with his/her parents/guardian. He/She shall give written reply /oral explanation to the charges levied against him/her for consideration. If the implicated student(s) fails to appear before the committee, then decision shall be taken as absent, on the basis of available evidence/documents which shall be binding on the concerned student.

16.4 Every admitted student shall be issued photo identification (ID) card which must be worn by the students when he/she is inside in the college campus / college bus.

17. ACADEMIC CALENDAR

17.1 The academic activities of the college shall be governed by the academic calendar prepared for each academic semesterr and approved by the AC/ASC. It shall be notified at the beginning of each academic semester. Academic calendar shall incorporate schedule of admission, course registration, course delivery, examination/evaluation, course feedback, course/graduate exit survey, co-curricular activities.

17.2 The curriculum shall be typically delivered in two semesters in an academic year. Each semester shall be of 16 weeks (approximately 75 working days) duration, including evaluation, grade moderation and result declaration. Generally, 13-14 weeks (65-70 days) for course content delivery and 4-6 weeks (20 – 30 days) for examination / evaluation shall be assigned in each semester. The academic session in each semester shall provide at least 75 teaching days with 40 hours per week. The odd and even semesters of an academic year normally begin from second week of June and second week of December respectively.

17.3 The academic calendar should be strictly adhered to all other activities including co-curricular and extra-curricular activities that should be scheduled so as not to interfere with the curricular activities as stipulated in the academic calendar.

18. VARIOUS COMMITTEES AND ITS FUNCTIONS

18.1 Academic Council (AC)

Composition of Academic Council:

1. The Director cum Principal (Chairman)
2. All the Heads of Departments in the college
3. Four teaching staff of the college representing different designation are nominated on rotation basis according to the service of seniority.
4. Not less than four experts/academicians from outside the college representing such areas as Industry, Commerce, Law, Education, Medicine, Engineering, Sciences etc., to be nominated by the Governing Body.
5. Three nominees of the university not less than Professors.
6. A faculty member nominated by the Principal (Member Secretary).

Term: The term of the nominated members shall be three years.

Meetings: Academic Council shall meet at least twice a year.

Functions of the Academic Council:

The Academic Council shall have powers to:

- (a). Scrutinize and approve the proposals with or without modification of the Board of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto etc., provided that where the Academic Council differs on any proposal, it shall have the right to return the matter for reconsideration to the Board of Studies concerned or reject it, after giving reasons to do so.
- (b). Make regulations regarding the admission of students to different programmes of study in the college keeping in view the policy of the Government.
- (c). Make regulations for sports, extra-curricular activities, and proper maintenance and functioning of the playgrounds and hostels.
- (d). Recommend to introduce the new programme of study to the Governing Body proposals.
- (e). Recommend to the Governing Body regarding the institution of scholarships, studentships, fellowships, prizes and medals and to frame regulations for the award of the same.
- (f). Advise the Governing Body on suggestions(s) pertaining to academic affairs framed by it.
- (g). Perform other functions as may be assigned by the Governing Body.

18.2 Board of Studies (BoS)

Composition of Board of Studies:

1. Head of the Department concerned (Chairman).
2. The entire faculty of each specialization.
3. Two subject experts from outside the Parent University to be nominated by the Academic Council.
4. One expert to be nominated by the Vice-Chancellor from a panel of six recommended by the college principal.
5. One representative from industry/corporate sector/allied area relating to placement.
6. One postgraduate meritorious alumnus to be nominated by the principal. The Chairman, Board of Studies, may with the approval of the principal of the college, co-opt:
 - (a). Experts from outside the college whenever special courses of studies are to be formulated.
 - (b). Other members of staff of the same faculty.

Term: The term of the nominated members shall be three years.

Meetings: The Board of Studies shall meet at least twice a year.

Functions of BoS

The Board of Studies of a Department in the college shall:

- (a). Prepare syllabi for various courses keeping in view the objectives of the college, interest of the stakeholders and national requirement for consideration and approval of the Academic Council.
- (b). Suggest methodologies for innovative teaching and evaluation techniques.
- (c). Suggest panel of names to the Academic Council for appointment of examiners.
- (d). Coordinate research, teaching, extension and other academic activities in the department/college.

18.3 Academic Standing Committee (ASC)

Composition of Academic Standing Committee is same as that of AC, except external members. ASC shall perform the functions under emergent situations subject to ratification by the AC.

18.4 Academic Appeal Board (AAB)

The entire process of Continuous Assessment shall be made transparent, in which students can get the explanation of marks being awarded from the course instructor, if and when required. However, if a student finds some anomaly in the award of marks in the continuous assessment, he/she can make an appeal to the *Academic Appeal Board* for review of marks awarded. Before appealing for such review, a student shall first approach the concerned Course Instructor and then the concerned Head of the Department, with a request to do the needful. Only after exhausting the above options and in situations where satisfactory actions / remedial measures have not been taken, the student may appeal to the Academic Appeal Board.

The Academic Appeal Board is constituted with Dean Academics as convener and two senior level professors as members, and the concerned Head of the Department and Class Advisor as co-opted members. The board will receive the grievances / complaints in writing from the aggrieved student regarding anomaly in award of marks. The board will examine the complaints and recommend appropriate measures to the Director cum Principal, for necessary action.

18.5 Departmental Advisory Committee (DAC)

DAC is another basic constituent of the academic system of an autonomous college. The composition and functions of the DAC are given below

1. Chairman : Head of the concerned Department
2. Internal Members : Two senior faculty members of the department
3. Industry Representative : One representative from industry/corporate sector / is related to the placement
4. One academican from other Institution
5. One meritorious alumnus
6. One parent
7. One student
8. Member secretary : Programme Academic Coordinator

Term: The term of the nominated members shall be three years.

Meetings: The meeting may be scheduled as and when necessary, but at least twice a year.

Functions of DAC

The DAC of a department in the college shall

- a) Formulate a process to review post implementation effects of curriculum
- b) Suggest measures to ensure academic standard and excellence of the course offered by the department.
- c) Suggest the methodologies for innovative teaching and evaluation techniques; enhancement of industry institute interaction
- d) Identify and recommend the record of new programme
- e) Review target set for attainment of course outcomes and programme outcomes
- f) Guide and provide support to department for enhancing interaction with outside world.
- g) Plan strategically to enhance the academic quality of department.
- h) Address concerns of stakeholders expressed through feedback.
- i) Defining and redefining the Programme Educational Objectives (PEOs) and Programme Outcomes (POs) based on the recommendations by departmental academic committee.
- j) Study the achievement of PEOs and POs reported by department academic committee and suggest measures for improvement.

18.6 Board of Examinations (BoE)


Composition

1. Director (Chairman)
2. Dean Academic.
3. Controller of Examination(CoE): Member Secretary
4. One expert possessing ten years of industrial/ field experience nominated by the Chairman
5. Coordinators (Examinations, Assessment, Results and Tabulation)

Functions of BoE:

- (a). The BoE shall
 - i. Ensure proper performance of the various duties in conducting examinations viz paper setting, time table preparation, assessment and declaration of results.
 - ii. Recommend examination reforms and shall implement after the approval of academic council.
 - iii. Prepare the detailed time table of examinations as per the schedule approved by academic council.
 - iv. Arrange for strict vigilance during the conduct of examination so as to avoid use of unfair means by the students, faculty and invigilators.

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- (b). Chairman, BoE shall constitute Complaint Redressal Committee (CRC) consisting of three members as and when required to deal with the complaints related to the conduct of examinations.
- (c). The recommendations of the CRC shall be approved by Chairman for the BoE to take appropriate disciplinary actions in the concerned matter. The disciplinary actions shall be endorsed by the BoE.
- (d). The BoE shall perform duties and responsibilities that are assigned by Academic Council of the institute from time to time.

18.7 Department Consultative Committee (DCC)

Composition

1. Head of Department (Chairman)
2. Five faculty members (at least one from each specialization) nominated by HOD
3. Member Secretary: Programme Academic Coordinator / Programme Evaluation Coordinator

Functions of DCC

- (a). Review, revise and prepare curriculum structure based on institutional policy, suggest improvements in syllabus of a course/s prepared by course teacher/s and forward the curriculum to BoS for further recommendations.
- (b). Check appropriateness of course objectives, course outcomes, and mapping of COs with POs and suggest necessary improvements/modifications.
- (c). Monitor the academic progress throughout the semester, conduct of classes and take appropriate corrective measures to improve the quality of curriculum delivery.
- (d). Review academic performance of students.
- (e). Counsel the concerned course teachers for improvement based on student feedback, academic and question paper audit reports.
- (f). Verify the attainment level of course outcomes and programme outcomes.
- (g). Formulate strategy to collect feedback from stake holders, analyze the collected feedback and forward the analysis to DAC.
- (h). Contribute to maintain academic standard as well as improving the quality of the courses offered by the department and enhance industry–institute interaction.
- (i). Suggest open and professional electives considering societal needs.
- (j). Recommend methodologies for innovative teaching and evaluation techniques to BoS.
- (k). Coordinate research, teaching, extension and other academic activities in the department/college.
- (l). Carry out preparatory work for defining /redefining the Programme Educational Objectives (PEOs) and Programme Outcomes (POs) periodically.
- (m). Monitor evaluation of course attainments leading to achievement of programme outcomes and report the results of assessment to BoS.

18.8 Programme Academic Coordinator (PAC)

The functions and duties of DAC are:

- (a). Coordinating all academic activities of the department viz Curriculum revision, framing of syllabus, time table, member secretary for BoS meeting, re-registration of course/s, display and submission of attendance status.
- (b). Conducting internal academic audit and departmental advisory committee meeting as a member secretary.
- (c). Monitoring the academic activities and conduct of classes.
- (d). Extending necessary help to departmental academic and evaluation committee.
- (e). Recording and forwarding all academic related documents to Dean Academics.
- (f). Working in association with Dean Academics.

18.9 Departmental Evaluation Coordinator (DEC)

Functions and duties of DEC are:

- (a). Conduct course and graduate exit survey, make arrangements for feedback from stakeholders (industry/employer/alumni/student) and feedback analysis.
- (b). Monitor the assessment of course outcome.
- (c). Compute / assess / evaluate the achievement of PEOs and POs as per NBA/NAAC requirements.
- (d). Compile the information required for the preparation of Annual Quality Assurance Report (AQAR) by the Internal Quality Assurance Cell (IQAC).
- (e). Extend necessary help to departmental academic and evaluation committee.

18.10 Class Advisor

Head of the Department will allot one faculty member to be the class advisor for a particular batch of students throughout their period of study. The role of class advisors is as follows:

- i. To motivate and closely monitor the performance of the students.
- ii. To build a strong alumni base for the institution by maintaining a possible rapport with students and parents.
- iii. To maintain all important documents of the students for reference/inspection by all committees.
- iv. To work closely with the student counselors on matters related to students and update the details from time to time in student's profile for further reference.

18.11 Student Counselor (Mentor)

By guiding and counseling students, faculty can create a greater sense of belongingness amongst the student community. To help the students in planning their courses and for general guidance on the academic programme, the Head of the Department will allot a certain number of students to a teacher of the department who shall function as student counselor throughout the period of study.

The student counselor will guide / monitor the courses chosen by the students, check attendance and progress of the students and counsel them periodically. The student counselors should ensure that each student is made aware of the various options for progress. Students are monitored and guided to become overall performers. Students can select and work for career choices of their interest. The student counselors shall update and maintain the student counselor record of each student under his guidance attached to them. The student counselors shall also help the class advisors to update the students details attached to them.

The student counselor may also discuss with the class advisor, HoD and parents about the progress of the students.

18.12 Class Committee

Every class will have a class committee constituted by the HoD. The members of the class committee will be as follows:

1. Chairperson (a senior faculty who is preferably not teaching any course for the class)
2. All the course handling staff of the class
3. Students (a minimum of 6 consisting of 3 boys and 3 girls on pro-rata basis)

Functions

The functions of the class committee shall include the following: -

- (a). Clarify the regulations of the programme and the details of rules therein.
- (b). Inform the student representatives about the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
- (c). Inform the student representatives about the details of Regulations regarding marks assigned for each assessment. In the case of practical courses (laboratory/ project work / seminar etc.) the breakup marks for each exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.
- (d). Analyze the performance of the students of the class after each assessment test and initiate steps for improvement.
- (e). Identify slow learners, if any, and request the faculty concerned to provide additional help / guidance / coaching to such students.
- (f). Discuss and sort out problems experienced by students in the classroom and in the laboratories.
- (g). The class committee shall be constituted within the first week of the commencement of any semester.
- (h). The chairperson of the class committee may invite the class advisor / student counselor and the Head of the Department to the meeting of the class committee.
- (i). The Director cum Principal may participate in any class committee meeting.
- (j). The chairperson is required to prepare the minutes of every meeting, submit the same through the Head of the Department to the Director cum Principal within two days of the meeting and arrange to circulate the same among the students and faculty concerned. Points requiring action by the management shall be brought to the notice of the management by the Principal.

Meetings

The class committee meetings are to be conducted as scheduled below.

Meeting 1	Within one week from the date of commencement of the semester
Meeting 2	One week before the 1 st assessment test
Meeting 3	One week before the 2 nd assessment test

During the first meeting of the class committee, the students are to be informed about the assessment procedure as per the framework of the Regulations. During these meetings the student representatives shall meaningfully interact and express opinions and suggestions of the students of the class to improve the effectiveness of the teaching-learning process.

19. REVISION OF REGULATIONS AND CURRICULUM

The college may revise, amend or change the regulations of curriculum and syllabi from time to time as and when found necessary.