



THIAGARAJAR COLLEGE OF ENGINEERING,  
MADURAI – 625015

*(A Govt. Aided Autonomous Institution Affiliated to Anna University)*

# ACADEMIC REGULATIONS – 2026

(M.C.A – R 2026)

## M.C.A. Programmes (Full-Time)

Applicable to the students admitted in M.C.A. Programme,  
offered in Thiagarajar College of Engineering,  
from the Academic year 2026 – 2027 onwards

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## PART I – GENERAL FRAMEWORK

### 1. Title

These regulations shall be called the “MCA Academic Regulations 2026” of Thiagarajar College of Engineering, Madurai. In short, these are referred to as “MCA – R2026”.

### 2. Vision of the Institute

World class quality technical education with strong ethical values

### 3. Mission of the Institute

We, at Thiagarajar College of Engineering (TCE), shall strive continuously to:

- Achieve Academic excellence in Science, Engineering and Technology through dedication to duty, commitment to research, innovation in learning and faith in human values.
- Enable the students to develop into outstanding professionals with high ethical standards capable of creating, developing and managing global engineering enterprises.
- Fulfil expectations of the society and industry by equipping students with state of the art technology resources for developing sustainable solutions.
- Achieve these through team efforts, making Thiagarajar College of Engineering the socially diligent trend setter in technical education.

### 4. Scope

The regulations provided herein shall apply to the students admitted to the Postgraduate Master of Computer Applications (MCA) programme of Thiagarajar College of Engineering, Madurai, from the Academic Year 2026–2027 onwards.

### 5. Definitions

- i. ‘University’ means ‘Anna University, Chennai’.
- ii. ‘Institution’ means ‘Thiagarajar College of Engineering (TCE)’, Madurai.
- iii. ‘Choice Based Credit System (CBCS)’ means a flexible system of learning that permits students to learn at their convenient pace, choose electives from a wide range of courses offered by the Department, adopt an inter/trans-disciplinary approach in learning, and make the best use of the expertise of available faculty.
- iv. ‘Programme’ means the Master of Computer Applications (MCA) Degree Programme.
- v. ‘Contact Hours’ means the duration of Lecture, Tutorial, Practical or Project Work, as applicable.
- vi. ‘Semester’ means a term of study consisting of a minimum of 14 weeks (including examinations), generally with eight ‘Contact Hours’ per day. The semester scheduled normally between July and

November shall be called 'Odd Semester' (I, III), and that scheduled between January and May shall be called 'Even Semester' (II, IV).

- vii. 'Course' refers to a Theory / Theory cum Practical / Laboratory / Project course offered in a semester of the Programme.
- viii. 'Credit' means the weightage assigned to a course based on the contact hours prescribed to teach the syllabus. One credit is allocated to 14 contact hours for theory and 28 contact hours for practical.
- ix. 'MOOCs' (Massive Open Online Courses) are online courses offered through recognized platforms that enable large-scale participation and provide structured learning content, assessments and certifications.
- x. 'NPTEL' refers to the National Programme on Technology Enhanced Learning, a joint initiative of the IITs and IISc offering high-quality online courses and certifications through the SWAYAM platform.
- xi. 'Continuous Assessment' means evaluation of a student's progress and performance in a course during a semester through tests, assignments, quizzes, presentations, practical work and case studies.
- xii. 'End Semester Examination' means an examination conducted for a course at the end of the semester to evaluate the student's overall learning achievement in that course.
- xiii. 'Bona fide Student' means a student who is admitted, joined and on-roll in the MCA programme.
- xiv. 'Head of the Department' means the Head of the Department of Computer Applications.
- xv. 'Controller of Examinations (COE)' means the officer responsible for all activities related to examinations in the Institution.
- xvi. 'Academic Council' means the principal academic body of the Institution, having control and general regulation of teaching and examinations and responsible for the maintenance of academic standards.

## 6. Admission Policy

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### 6.1 Regular Admission

Admission to the first year of the MCA programme shall be as per the norms prescribed by the Government of Tamil Nadu, Anna University, and other statutory/regulatory authorities applicable from time to time, including eligibility through TANCET or an equivalent qualifying examination, wherever prescribed.

### 6.2 Eligibility

The candidate shall possess a recognized Bachelor's degree with a Mathematics/Computer-related background, as prescribed in the approved admission norms. The minimum qualifying marks and other admission requirements shall be as prescribed by the competent authority and approved by the College.

## 7. Programme of Study

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Master of Computer Applications (MCA) – MCA – a two-year, four-semester programme. Normal duration and maximum permissible period shall be governed by Clause 2.2."full-time postgraduate programme offered by the Department of Computer Applications, Thiagarajar College of Engineering.

Note: This regulation is applicable to any further postgraduate computer applications programme introduced in future by the Department, based on academic requirements and technological developments, with due approval from Anna University and the Academic Council.

## PART II – PROGRAMME DESIGN AND OUTCOMES

### 2.1 Programme Educational Objectives, Programme Outcomes and Programme Specific Outcomes

The MCA programme defines its Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) in alignment with the vision and mission of the Department and the Institution.

#### Programme Educational Objectives (PEOs):

PEOs describe the broad career and professional achievements that MCA graduates are expected to attain within a few years of completing the programme. They reflect the long-term aspirations regarding the application of computing knowledge, technical skills, professional competencies, and ethical values in professional practice, higher education, research, innovation, entrepreneurship, and societal contribution.

#### Programme Outcomes (POs):

POs represent the set of competencies that MCA students are expected to demonstrate at the time of graduation. They include abilities related to Foundation knowledge, problem analysis, development of solutions, use of modern computing tools and technologies, Individual and teamwork, project management and finance, ethics, and lifelong learning.

#### Programme Specific Outcomes (PSOs):

PSOs articulate the discipline-specific skills and knowledge that MCA graduates will possess upon completion of the programme. They reflect the unique characteristics and strengths of the Department of Computer Applications and are framed in line with the field of computer applications, software development, data management, emerging computing technologies, and application-oriented problem solving.

#### Course Outcome (CO):

Course Outcome (CO) means the specific, measurable knowledge, skills, and competencies that students are expected to achieve upon completing a course. It reflects the intended learning achievements aligned with the Programme Outcomes (POs) and Programme Specific Outcomes (PSOs). Generally, a three-credit course shall have a minimum of 6 COs and a maximum of 8 COs.

### 2.2 Programme Structure and Curriculum Design

#### 2.2.1 Curriculum

The MCA programme follows a defined structure, referred to as the 'Curriculum', which specifies the details of all courses to be completed and outlines their semester-wise sequence, approved by the Board of Studies and the Academic Council.

#### 2.2.2 Programme Duration

(i). Duration of the programme is TWO years (Four Semesters) for a student admitted to a programme with qualifications as prescribed in Clause 6.2 of the regulations. The student shall successfully complete all the

requirements as per the curriculum and regulations of the programme within the above said duration of 'TWO' years.

(ii). above mentioned period in Clause 2.2.2 (i) shall be extended for 'ONE' more year to a student, who is permitted to avail the authorised break of study or opt for dropping of courses, as per the regulations.

(iii). 'Programme Completion' means that a student shall undergo all the courses as prescribed in the respective curriculum and become eligible for appearing in the end semester examination of all the courses within the period as given in Clauses 2.2.2[(i), (ii)].

(v). After programme completion if there are any arrear course(s), a student shall be permitted to successfully complete the same, within 'FOUR' years. This maximum duration for successful completion shall be reckoned from the commencement of first semester of the programme.

(vi). In case of a student prevented from appearing in the end semester examination in all the courses of a semester due to shortage of attendance, the period of prevention shall be treated as a break in the programme. In such a case, total duration for completing the programme including all such prevention periods shall not exceed the above-said 'FOUR' years.

### 2.2.3 Course Categories

The MCA curriculum shall consist of theory and practical courses, with prescribed syllabi, categorized as follows:

- Programme Core Courses (PCC) – core courses relevant to computer applications.
- Programme Elective Courses (PEC) – specialized/advanced courses chosen from a pool of electives, including courses completed under ISC/CTM.
- Basic Science Courses (BSC) – basic science courses relevant to computer applications.
- Employability Enhancement Courses (EEC) – courses designed to improve employability through projects, skill-based activities and applied learning.
- Industry Supported Courses (ISC) – courses handled by industry experts or delivered through industry-provided online modules, evaluated through a continuous assessment test. ISC courses shall come under the category of PEC.
- Credits through MOOCs (CTM) – courses registered in online mode through SWAYAM/NPTEL/TCE MOOC platforms, subject to a proctored examination.
- Audit Courses (AC) - Audit Courses are non-credit and are not counted toward minimum credits/CGPA. Any completion requirement shall be stated in the curriculum.
- "Value Added Courses (VAC) – courses offered to provide additional value; completion is not mandatory for successful completion of the programme.
- Mini Project / Major Project (Dissertation) – project-based courses culminating in the final-semester dissertation.
- Internship / Industrial Training – industry exposure as prescribed in the curriculum.

The recommended indicative distribution of credits for each category is given below. The exact figures shall be as specified in the approved MCA Curriculum 2026.

| Sl. No.                                          | Category                                                                              | Indicative Credits |
|--------------------------------------------------|---------------------------------------------------------------------------------------|--------------------|
| A.                                               | Programme Core Courses (PCC)                                                          | 48                 |
| B.                                               | Programme Elective Courses (PEC)                                                      | 14                 |
| C.                                               | Basic Science Courses (BSC)                                                           | 04                 |
| D.                                               | Employability Enhancement Courses (EEC)                                               | 16                 |
| E.                                               | Internship / Industrial Training and Audit Courses (Non-credit, not included in CGPA) | –                  |
| Minimum Credits for the Award of Degree (A to D) |                                                                                       | 82                 |

#### 2.2.4 Medium of Instruction

The medium of instruction and examination for the MCA programme is English.

#### 2.2.5 Assignment of Credits

Each course is assigned credits with respect to the number of contact periods per week, as given below:

| Contact Period            | Credits |
|---------------------------|---------|
| 1 Lecture Period / week   | 1       |
| 1 Tutorial Period / week  | 1       |
| 1 Practical Period / week | 0.5     |

ONE credit is assigned to 'Industrial Training/Internship' for every TWO WEEKS duration. ONE credit is assigned to 'SWAYAM/NPTEL' courses for every FOUR WEEKS duration.

#### 2.2.6 Course Code

Every course code shall consist of five components, arranged in the sequence RR-AA-C-U-V, where:

- RR – Regulation code: two digits representing the regulation year (e.g., 26 for Regulation 2026).
- AA – Programme code: 'CA' for Computer Applications.
- C – Course category code (e.g., C/D for Programme Core, P/Q/R for Programme Elective, G for Open Elective, L for Employability Enhancement, 1/2 for Industry-Supported, V for Value Added, A for Audit, N for NPTEL, M for TCE MOOCs, T for Internship).
- U – A single alphabet (A–Z, excluding I and O) representing the unique identifier of the course within the programme.
- V – A single digit indicating the version/revision of the course.

For example, a Programme Core Course offered in the first semester is denoted as 26 CA C A 0, where 26 is the regulation year, CA is the programme code, C denotes Programme Core Course, A is the unique course identifier and 0 is the initial version.

## PART III – ACADEMIC PROCESS

### 1. Academic Calendar

The dates of all academic activities, including course registration, first and last days of classes, continuous assessment tests, end-semester examinations, arrear examinations, project reviews, vacation and other scheduled activities, are published in the Academic Calendar every year, available on the Institution website before the commencement of the academic year.

### 2. Class Timings

Classes are usually scheduled between 09:00 AM and 05:00 PM, with a recess from 10:40 AM to 11:00 AM and a lunch break from 12:40 PM to 01:40 PM. One Contact Hour is of 50-minute duration. Regular classes are scheduled in a five-day week, Monday to Friday.

### 3. Faculty Mentors

Every student shall be assigned a Faculty Mentor, who shall offer guidance in academic and, where necessary, personal matters. Roles and responsibilities of a Faculty Mentor include:

- Orienting students to the institutional system, especially at the beginning of the programme.
- Reviewing courses already completed and those offered in the upcoming semester.
- Serving as a guide in course selection and as a liaison between students and course instructors.
- Reviewing students' academic progress at least once a semester and suggesting avenues for improvement where necessary.
- Providing details about placement, co-curricular and extra-curricular activities.

### 4. Registration of Courses

1. Every student admitted is required to register for courses before the commencement of each semester, through the online portal facilitated by the Institution, as per the dates specified in the Academic Calendar.
2. Responsibility for completing registration correctly and on time rests with the student, who may approach the Faculty Mentor, Department-level coordinators or the Head of the Department for clarification. Students shall be permitted to withdraw from a registered elective course within five working days from the commencement of classes.
3. Programme Elective Courses shall be chosen from the specialized groups/verticals specified in the curriculum, subject to satisfying the applicable prerequisites. A minimum registration of 15 students is ordinarily required to offer a Programme Elective/Open Elective course.
4. Students shall register for courses in a given semester subject to the maximum credit limit prescribed by the Department, inclusive of courses re-registered due to shortage of attendance. There shall be no credit limit for the registration of arrear courses.
5. A student shall not re-register for courses already successfully completed. Students may be permitted to register for additional value-added courses over and above those prescribed in the curriculum, with prior permission of the Head of the Department; credits earned shall be printed in the grade sheet but not considered for CGPA computation.

6. The entire registration process shall be completed within ten working days from the date of commencement of course registration.

## 5. Attendance Criterion

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1. Students are expected to attend all classes without fail. A minimum of 75% attendance in each course is mandatory to be eligible to appear for the End Semester Examination of that course.
2. If a student is unable to secure 75% attendance but has at least 65% attendance, Medical Certificate/On-Duty leave may be considered, with the approval of the Head of the Department, for recalculating attendance excluding classes held during such leave.
3. For medical reasons, a Medical Certificate shall be furnished to the Head of the Department, through the Faculty Mentor, within five days of reporting back to class. Certificates submitted after the due date shall not be accepted.
4. Students shall obtain prior approval from the Head of the Department to participate in placement activities, project competitions, internships, and co-curricular/extra-curricular activities, including sports, for such attendance to be treated as 'On-Duty'.
5. A student whose attendance in a course is less than 75% shall be prevented from appearing in the End Semester Examination for that course and shall repeat the course when next offered.
6. A student with shortage of attendance in all registered courses of a semester shall not be permitted to proceed to the subsequent semester and shall repeat the semester, when offered next by the Department, subject to readmission norms.
7. Students eligible under Clauses (ii) and (iv) above may apply for condonation to the Principal, through the Head of the Department, within three working days from the last lecture day, on payment of the prescribed fee. A student may apply for condonation a maximum of two times during the entire programme.

## 6. Withdrawal

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A student who is eligible to appear for the End-Semester Examinations may be permitted to withdraw from a course or courses, except during the first semester, for bona fide reasons (such as hospitalization, accident or specific illness), only once during the entire duration of the programme. The application, in the prescribed format, shall be submitted to the Controller of Examinations with the prior approval of the Principal, through the Head of the Department, before the commencement of the End-Semester Examinations. The student shall appear for the End Semester Examination in the subsequent semester; the withdrawn course shall not be considered as an appearance for classification of degree.

## 7. Break of Study

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A student may be permitted to avail ONE 'Break of Study' for a period of ONE semester in the entire two-year programme, except during the first semester, for bona fide reasons only (such as hospitalization, accident or specific illness). The student shall apply to the Head of the Department, in the prescribed format, which shall be forwarded to the Principal for further action. Break of Study is not permitted retrospectively, nor after the list of students prevented from appearing for the end-semester examination due to lack of attendance has been prepared. The duration prescribed in Clause 2.2.2 of Part II includes the period of any approved Break of Study. Students granted Break of Study shall be allowed to appear for End Semester Arrear Examinations for

backlog courses, if any, during the break period. On rejoining, the Regulations and Curriculum in force at the time of rejoining shall apply.

## **8. Unauthorized Absence**

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If a student has not reported officially to the Head of the Department for the entire duration of a semester, without prior written request for Break of Study, the student's admission stands cancelled automatically and the name shall be removed from the roll list, following the Institution's procedure, including prior intimation to the student and parent/guardian.

## **9. Termination**

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1. A student who is unable to complete the requirements for the award of degree within the maximum permissible duration prescribed in Clause 2.2.2 of Part II shall be deemed to have been automatically terminated from the programme, and a Transfer Certificate shall be issued forthwith.
2. Students facing disciplinary action for a serious offence (for example, ragging) may face premature termination from the programme, based on the recommendation of the Disciplinary Action Committee.

## PART IV – TEACHING–LEARNING AND EVALUATION

### 1. Teaching–Learning Process and Pedagogical Practices

#### 1.1 Course Plan

For every course offered, the faculty member shall prepare a detailed Course Plan outlining course objectives, outcomes, syllabus coverage, schedule of lectures/laboratory sessions, assessment components, learning resources and pedagogical methods. The Course Plan shall be shared with students at the beginning of the semester to ensure transparency and alignment with the Course Outcomes.

#### 1.2 Active Learning and Pedagogical Practices

The teaching-learning process shall emphasize active and student-centric learning. Faculty members are encouraged to employ problem-based learning, project-based learning, flipped classrooms, collaborative learning and experiential learning, integrating ICT tools, industry-based assignments and case studies. Continuous improvement of pedagogy through feedback and peer review is encouraged.

### 2. Assessment and Evaluation System

- The courses to be offered are decided by the Department, taking into consideration the requirements of the programme.
- Each course is conducted by a Course Instructor, who has overall responsibility for the successful conduct of class work and shall maintain attendance and assessment records.
- Semester-wise performance is evaluated through continuous assessments and end-semester examinations, or, for some courses, through continuous assessment only. Each theory, practical or theory-cum-practical course shall be evaluated for a maximum of 100 marks.
- For 'Theory (T) Courses', evaluation shall be through continuous assessments and end semester examination. Continuous assessment shall have the weightage of 40% & End semester examination shall have the weightage of 60%.
  - Continuous assessments comprise of two tests and activities. For each test, there shall be a minimum of ONE 'activity' which include tutorials, assignments, group assignments, quizzes, course embedded project, seminars etc. as prescribed in the course plan. Weightage for test is 60% and for activity, it is 40%, as provided in Table 4.

**Table 4 – Weightage for Continuous Assessment in Theory (T) Courses**

| Assessment – I |           | Assessment – II |           | Total |
|----------------|-----------|-----------------|-----------|-------|
| Test1          | Activity1 | Test2           | Activity2 |       |
| 30%            | 20%       | 30%             | 20%       | 100%  |

- End semester examination shall be conducted for 100 marks for duration of THREE hours.
- For '**Theory cum Practical (TCP) Courses**', evaluation shall be through continuous assessments and end semester examination.
    - Continuous assessment shall have the weightage of 50% & End semester examination shall have the weightage of 50%.

- ii. Continuous assessments comprise of two tests for theory and one test for practical. The assessment of laboratory practical component will be based on turn-to-turn supervision of the student's work, performance in laboratory Model test. Details of weightage for theory and practical for various TCP courses are presented in Table 5.

**Table 5 – Weightage for Continuous Assessments in TCP Courses/ End Semester**

| Sl. No. | Hours L-T-P | Credits | Continuous Assessments |           | End Semester Examinations |           |
|---------|-------------|---------|------------------------|-----------|---------------------------|-----------|
|         |             |         | Theory & Activities*   | Practical | Theory                    | Practical |
| 1.      | 1-0-2       | 2       | 15%                    | 35%       | 50%                       | -         |
| 2.      | 1-0-2       | 2       | 35%                    | 15%       | -                         | 50%       |
| 3.      | 1-0-3       | 2.5     | 35%                    | 15%       | -                         | 50%       |
| 4.      | 2-0-2       | 3       | 30%                    | 20%       | -                         | 50%       |
| 5.      | 2-0-2       | 3       | 20%                    | 30%       | 50%                       | -         |
| 6.      | 2-0-3       | 3.5     | 35%                    | 15%       | -                         | 50%       |
| 7.      | 2-0-4       | 4       | 15%                    | 35%       | 50%                       | -         |
| 8.      | 2-0-4       | 4       | 35%                    | 15%       | -                         | 50%       |
| 9.      | 1-0-6       | 4       | 15%                    | 35%       | -                         | 50%       |
| 10.     | 3-0-2       | 4       | 20%                    | 30%       | 50%                       | -         |

6. For '**Laboratory (L) Courses**', evaluation shall be through continuous assessments and end semester examination. Continuous assessment shall have the weightage of 60% & End semester examination shall have the weightage of 40%.
- i. Continuous assessments will be based on Pre lab activities, In lab activities, post lab activities and assignments. It has the weightage of 75%. Performance in laboratory practical test shall have the weightage of 25% as given in Table 6.

**Table 6 – Weightage for Continuous Assessment in Laboratory (L) Courses**

| Evaluation of Pre lab activities, In lab activities, post lab activities and assignments. | Model Test |
|-------------------------------------------------------------------------------------------|------------|
| 75%                                                                                       | 25%        |

- ii. There shall be one End semester examination for laboratory course conducted for 100 marks and this examination shall be conducted preferably before the commencement of theory examinations. The evaluation of the lab examination should be based on the level of the lab as prescribed in the respective curriculum
7. Project (Mini Project / Major Project / Dissertation)  
For project work, a student shall work on a topic of interest under the guidance of a faculty member serving as the Project Supervisor, who shall interact with the student at least twice a week. The Mini

Project shall ordinarily be undertaken in the Third Semester, and the Major Project/Dissertation shall be undertaken in the Fourth Semester.

- Mini Project (Third Semester): evaluated through continuous assessment comprising periodic reviews and a final project report and demonstration.
- Major Project/Dissertation (Fourth Semester): shall include three review assessments followed by a final viva-voce examination, evaluated by the Project Supervisor as Internal Examiner, one reviewer nominated by the Head of the Department, and one external examiner.

The weightage for continuous assessment and the End-Semester Examination for the Major Project/Dissertation is as follows:

| Continuous Assessment (60%) |                 |                  | End Semester Examination (40%)  |                 |
|-----------------------------|-----------------|------------------|---------------------------------|-----------------|
| Review I – 10%              | Review II – 20% | Review III – 30% | Project Report Evaluation – 10% | Viva-Voce – 30% |

### 3. Industry Supported Courses (ISC)

1. Industry Supported Courses shall be offered subject to prior approval of the Board of Studies and the Academic Council, based on a proposal submitted by the ISC Coordinator to the Head of the Department at the commencement of each semester.
2. Classes shall be conducted by industry experts in physical/online/hybrid mode, and an attendance register shall be maintained by the Coordinator. Batch size shall not exceed 60.
3. A student may register for and complete ISCs in excess of the maximum prescribed requirement; for GPA/CGPA computation, only the best credits obtained (up to the prescribed maximum) shall be considered, and any excess shall be treated as Value Added Courses.
4. All ISC courses shall be evaluated through continuous assessment only; no End-Semester Examination shall be conducted. If a student fails to complete a registered ISC, the attempt shall not be treated as an arrear, and re-registration shall be permitted when the course is next offered.

### 4. Summary of Weightage for Continuous Assessment and End Semester Examination

| Sl. No. | Type / Category                             | Continuous Assessment | End-Semester Examination |
|---------|---------------------------------------------|-----------------------|--------------------------|
| 1.      | Theory                                      | 40%                   | 60%                      |
| 2.      | Theory cum Practical                        | 50%                   | 50%                      |
| 3.      | Laboratory                                  | 60%                   | 40%                      |
| 4.      | Mini Project / Major Project / Dissertation | 60%                   | 40%                      |
| 5.      | Internship / Industrial Training            | 100%                  | –                        |
| 6.      | Industry Supported Course                   | 100%                  | –                        |
| 7.      | Employability Enhancement Courses           | 60%                   | 40%                      |
| 8.      | Audit Course                                | 100%                  | –                        |

## 5. Passing Criteria in a Course

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A student is declared 'PASS' in a course upon satisfying the following conditions:

- i. For Theory, Laboratory and Theory cum Practical courses: a minimum of 45% marks in the End Semester Examination, and a minimum of 50% marks in the total combining Continuous Assessment and End Semester Examination.
- ii. For Mini Project / Major Project / Dissertation: a minimum of 45% marks in the End Semester Examination component (report evaluation and viva-voce), and a minimum of 50% marks in the total combining Continuous Assessment and End Semester Examination.
- iii. For Internship/Industrial Training: a minimum of 50% marks in continuous assessment.
- iv. For Industry Supported Courses: a minimum of 50% marks as per the assessment pattern in the syllabus.
- v. For Audit Courses: a minimum of 50% marks in continuous assessment; credits earned shall not be considered for CGPA computation.

## 6. Publication of Results and Reassessment

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Publication of examination results shall be within fourteen working days from the date of completion of the regular end-semester examinations. A student may apply for reassessment of the answer script in theory and theory-cum-practical courses, within five working days from the declaration of results, on payment of the prescribed fee. Reassessment results shall be published before the commencement of supplementary examinations.

## 7. Not Satisfying Passing Criteria

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A student who does not satisfy the passing conditions in Theory, Theory cum Practical or Laboratory courses shall reappear for the End Semester Examination in the subsequent semester(s); continuous assessment marks obtained in the first appearance shall be retained and considered valid for subsequent attempts until the student passes. In the case of Industry Supported Courses/MOOCs, if a student does not successfully complete the course, enrolment shall be cancelled and the student may re-register in the ensuing semester. For Audit Courses, the student shall repeat the course when next offered.

## 8. Grading System, GPA/CGPA and Classification of Degree

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### 8.1 Grading of Courses

The award of letter grades shall follow an absolute grading system. The range of marks, grades and corresponding grade points are given below:

| Range of Marks | Grade | Description                                                                              | Grade Points |
|----------------|-------|------------------------------------------------------------------------------------------|--------------|
| 91 – 100       | S     | Outstanding performance; original and creative thinking, critical analysis and synthesis | 10           |
| 81 – 90        | A+    | Excellent performance and creative thinking                                              | 9            |
| 71 – 80        | A     | Very Good achievement                                                                    | 8            |
| 66 – 70        | B+    | Good achievement                                                                         | 7            |
| 61 – 65        | B     | Above Average achievement                                                                | 6.5          |
| 56 – 60        | C+    | Average achievement                                                                      | 6            |
| 50 – 55        | C     | Satisfactory achievement                                                                 | 5            |
| < 50           | U     | Re-appearance                                                                            | 0            |
| –              | SA    | Shortage of Attendance                                                                   | 0            |
| –              | WC    | Withdrawal of Course                                                                     | 0            |

A student is deemed to have passed and acquired the corresponding credits in a course upon obtaining any of the grades S, A+, A, B+, B, C+, or C. 'U' denotes failure to pass; 'SA' denotes shortage of attendance; 'WC' denotes withdrawal from the examination for that course.

### 8.2 Calculation of GPA and CGPA

The Grade Point Average (GPA) is the weighted average of the grade points obtained in all courses registered by the student during a semester:

$$\text{GPA} = \Sigma(C_i \times g_i) / \Sigma C_i$$

where  $C_i$  is the credit and  $g_i$  the grade point of the  $i$ -th course. The CGPA indicates overall academic performance, computed to two decimal places in the same manner, including all courses registered up to the latest completed semester. Grades of additional (non-mandatory) courses shall not be considered for CGPA computation, though they shall be printed in the grade sheet.

### 8.3 Award of Degree

A student is deemed to have completed the requirements for the award of degree upon successfully completing all courses prescribed under the curriculum, earning the minimum credits prescribed, and satisfying all other requirements of these Regulations. The award of degree shall be approved by Anna University.

Classification of the degree shall be as follows:

- First Class with Distinction: passed all courses in the first appearance itself, within the prescribed duration (Clause 2.2.2, Part II), secured a CGPA of at least 8.50, and was not prevented from appearing for any end-semester examination.
- First Class: passed all courses within the prescribed duration and secured a CGPA of at least 6.50.
- Second Class: passed all courses within the prescribed duration with a CGPA below 6.50, or passed within the extended durations permitted under Clause 2.2.2 (Part II).

## PART V – ENRICHMENT AND ACADEMIC FLEXIBILITY

### 1. Credits through MOOCs (CTM)

- i. A student may register for courses in online mode with other institutes, or through the Institution, with prior permission of the Head of the Department, opting for MOOCs offered by SWAYAM/NPTEL/TCE MOOC portals, subject to a proctored examination by the certificate provider.
- ii. The course shall not duplicate a course already registered or credited under the PEC category at any stage of the programme; PCCs shall not be substituted by CTM courses.
- iii. The maximum credits a student may earn through CTM is SIX, with a limit of THREE credits per semester, subject to the overall semester credit limit prescribed by the Department.
- iv. A Coordinator shall be nominated by the Head of the Department as a Single Point of Contact for all CTM-related activities. Credits shall be awarded on the basis of course duration: 4 weeks – 1 credit.

#### Range of Marks for grading of NPTEL courses

| S        | A+      | A       | B+      | B       | C+      | C       | U    |
|----------|---------|---------|---------|---------|---------|---------|------|
| 91 – 100 | 81 – 90 | 71 – 80 | 61 – 70 | 51 – 60 | 46 - 50 | 40 – 45 | < 40 |

### 2. Guided Study Course

A student who has no standing arrear and has secured a CGPA greater than 8.0 may study one course (maximum 3 credits) under the PEC/Elective category after the second semester, as a Guided Study Course, under the periodic monitoring and evaluation of a faculty member approved by the Head of the Department. The student is not required to attend regular classes but shall appear for continuous assessment tests and submit assignments as prescribed.

## PART VI – GOVERNANCE AND QUALITY ASSURANCE

### 1. Discipline

Every student is required to observe discipline and decorous behaviour, both inside and outside the College, and shall not indulge in any activity that would bring down the prestige of the College. The Principal shall constitute a Disciplinary Committee to enquire into acts of indiscipline and recommend disciplinary action for approval. In the case of malpractice in any test or examination, the student shall be liable for punitive action as prescribed by the Institution; repeat offences may result in debarment from classes for the academic year.

### 2. Grievance Cell

The Institution shall maintain a Grievance Redressal Committee for staff and students, constituted by the Principal, to address academic and non-academic grievances.

### 3. Counselling Cell

The Institution shall maintain a dedicated Counselling Cell, comprising psychological counsellors, faculty representatives and student representatives, constituted by the Dean (Student), to offer advice and support in academic and personal matters.

### 4. Other Statutory Committees

In addition to the academic and administrative bodies constituted under this Regulation, the Institution shall maintain statutory committees mandated by governing authorities, including the Anti-Ragging Committee, SC/ST Cell, OBC Cell, Minority Cell, Anti-Drug Committee, and the Women Empowerment Cell (WEC), to address student grievances, promote equity and inclusivity, prevent discrimination or misconduct, and safeguard the wellbeing of the campus community.

### 5. Induction Programme

An Induction Programme shall be conducted by the Dean (Student) for incoming students, aimed at orienting them to the diverse student community, campus life, academic guidance and the Institution's anti-ragging policy, to provide a cordial and smooth transition into the Institution.

### 6. Academic Audit and Continuous Quality Improvement

The Principal shall initiate an academic audit process once every year, in coordination with the Head of the Department, inviting external expert(s), with arrangements made by the Head (IQAC). The audit shall cover course delivery, syllabus coverage, quality of assessments, laboratory infrastructure, co-curricular activities, academic functioning of the Department, and adherence to quality criteria prescribed by statutory bodies. An action-taken report shall be presented to the Internal Quality Assurance Cell based on the audit report. Academic documents of the MCA programme for a batch of students shall be retained in the Department for a period of TWO years after the end of programme duration.

## **7. Class Committee**

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The objective of the Class Committee is to improve the teaching-learning process by resolving classroom/laboratory difficulties, clarifying the regulations of the programme, discussing the progress of the academic schedule, and evaluating student performance after each test. The Class Committee shall comprise all faculty members handling courses in that semester, the Faculty Mentor, and student representatives from the class, coordinated by a Chairperson (a faculty member not handling a course in that semester) nominated by the Head of the Department. It shall be constituted in the first week of the semester and shall meet at least three times during the semester as specified in the Academic Calendar, with minutes submitted to the Head of the Department within five working days of each meeting.

## **8. Programme Performance Assessment Committee**

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The Programme Performance Assessment Committee, comprising Course Coordinators/faculty members and the Programme Coordinator nominated by the Head of the Department, shall meet to assess the attainment of Course Outcomes, Programme Outcomes and Programme Specific Outcomes, review the progress and status of students, and recommend actions to improve CO/PO attainment. The committee may invite faculty mentors and students as invitees.

## **9. Revision and Amendments to Regulations**

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The Standing Committee/Academic Council of the College reserves the right to revise, change or amend these Regulations, the scheme of examinations, the curriculum and the syllabi from time to time, if found necessary.

## **10. Special Cases**

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In the event of any doubt regarding the interpretation of these Regulations, the matter shall be referred to the Standing Committee, which shall offer suitable interpretations, clarifications or amendments for ratification at the next meeting of the Academic Council. The decision of the Academic Council shall be final.