



**THIAGARAJAR COLLEGE OF ENGINEERING,
MADURAI – 625015**

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

ACADEMIC REGULATIONS – 2026

(B.E/B.Tech – R 2026)

B.E. / B.Tech. Programmes (Full-Time)

**Applicable to the students admitted in B.E. / B.Tech. Programme,
offered in Thiagarajar College of Engineering,
from the Academic year 2026 – 2027 onwards**

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Part - I : General Framework

1.1. Title

These regulations shall be called 'Academic Regulations 2026. In short, it is referred as B.E./B.Tech - R2026.

1.2. Vision of the Institute

World class quality technical education with strong ethical values.

1.3. 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.

1.4. Scope

The regulations provided herein shall apply to the students admitted in the Undergraduate (UG) B.E./ B.Tech., Programmes of Thiagarajar College of Engineering, Madurai from the Academic year 2026 – 2027.

1.5. Definitions

- a. **'University'** means 'ANNA UNIVERSITY, CHENNAI'.
- b. **'Institution'** means "Thiagarajar College of Engineering (TCE)", Madurai
- c. **'Choice-Based Credit System (CBCS)'** means a flexible system of learning that permits students
 - i. to learn at their convenient pace.
 - ii. choose electives from a wide range of elective courses offered by the departments.

- iii. adopt an inter / trans-disciplinary approach in learning and
 - iv. make the best use of the expertise of available faculty.
- d. **'Programme'** means Degree Programme (i.e.) B.E. / B.Tech. Degree Programme.
- e. **'Discipline'** means every branch of B.E. / B.Tech. Degree Programme offered by the institution.
- f. **'Contact Hours'** means duration of Lecture, Tutorial, Practical or Project Work, as applicable.
- g. **'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, V, VII), and that scheduled between January and May, shall be called 'Even semester' (II, IV, VI, VIII).
- h. **'Course'** refers to a Theory / Theory cum Practical / Practical/ Project courses that are offered in a semester of the Programme.
- i. **'Credit'** means the weightage assigned to that course based on the contact hours to teach the prescribed syllabus. One credit is allocated to 14 contact hours for theory and 28 contact hours for practical.
- j. **CDIO** refers to the *Conceive-Design-Implement-Operate* framework, an international model for engineering education that emphasizes real-world system development, hands-on learning, and outcome-based competencies.
- k. **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.
- l. **NPTEL** refers National Programme on Technology Enhanced Learning (NPTEL) is a joint initiative of the IITs and IISc that offers high-quality online courses and certifications across engineering, science, technology, and humanities disciplines, aimed at enhancing learning through the SWAYAM platform.

- m. **Formative Assessment** means ongoing evaluation during the course to monitor student learning, provide timely feedback, and support improvement through activities such as short assessments, class interactions, and feedback tasks.
- n. **Continuous Assessment** means evaluation of the students' progress and performance in a course during a semester through various activities such as tests, assignments, quizzes, presentations, practical work, and case studies.
- o. **End Semester Examination** means an examination conducted for a course at the end of the semester to evaluate the student's overall learning achievements in a course.
- p. **Bona fide Student** means the student who is admitted, joined and on-roll in an Undergraduate Programme.
- q. **Head of the Department** means the Head of the Department of the concerned discipline
- r. **Controller of Examinations (COE)** means the Officer responsible for all the activities related to examinations in the Institution.
- s. **Academic Council** means the principal academic body of the Institution and have control and general regulation of teaching and examination in the Institution and be responsible for the maintenance of the academic standards thereon.

1.6. Admission Policy

1.6.1. Regular Admission:

Admissions to first year of B.E., / B. Tech programmes offered in the Institution shall be as per the norms prescribed by Government of Tamil Nadu as given below:

Required to have a pass in Higher Secondary Course Examination (Academic 10 + 2) Curriculum or its equivalent examinations with Mathematics, Physics and Chemistry. Other eligibility criteria such as minimum marks in each of the above courses for different categories of communities, number of attempts and physical fitness shall be as prescribed by the Govt. of Tamil Nadu from time to time.

1.6.2. Lateral Entry Admission:

Admission of students directly to second year (Lateral entry) of B.E., / B. Tech programme shall be as per the norms prescribed by the Government of Tamil Nadu as

given below:

Those who possess a Diploma in Engineering / Technology awarded by the Directorate of Technical Education, Tamil Nadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. Programme. Other eligibility criteria such as discipline of Diploma, marks, number of attempts and physical fitness shall be as prescribed by the Govt. of Tamil Nadu from time to time.

1.7. Programme of Study:

B.E. Degree

- Programme I : Civil Engineering
- Programme II : Mechanical Engineering
- Programme III : Electrical and Electronics Engineering
- Programme IV : Electronics and Communication Engineering
- Programme V : Computer Science and Engineering
- Programme VI : Mechatronics Engineering
- Programme VII : Computer Science and Engineering (Artificial Intelligence and Machine Learning)
- Programme VIII : Electrical and Computer Engineering

B.Tech. Degree

- Programme I : Information Technology
- Programme II : Computer Science and Business Systems
- Programme III : Electronics Engineering (VLSI Design and Technology)
- Programme IV : Fashion Technology

Note: This regulation is applicable to further B.E. / B.Tech. degree programmes introduced in future, based on academic requirements, technological developments, and with due approval from the AICTE and Anna University

Part – II Programme Design and Outcomes.

2.1. **Programme Educational Objectives and Outcomes (PEOs, POs, PSOs)**

Each academic programme offered under these regulations shall define its Programme Educational Objectives (PEOs), Programme Outcomes (POs), and Programme Specific Outcomes (PSOs) in alignment with the vision and mission of the Institution.

- **Programme Educational Objectives (PEOs):**

PEOs describe the broad career and professional achievements that graduates are expected to attain within a few years of completing the programme. They reflect the long-term aspirations regarding the application of knowledge, skills, and attitudes in professional practice and societal contribution.

- **Programme Outcomes (POs):**

POs represent the set of competencies that students are expected to demonstrate at the time of graduation. These are aligned with the graduate attributes defined by the National Board of Accreditation (NBA) and include abilities related to engineering knowledge, problem analysis, design and development, use of modern tools, ethics, teamwork, communication, project management, and lifelong learning.

- **Programme Specific Outcomes (PSOs):**

PSOs articulate the discipline-specific skills and knowledge that graduates will possess upon completion of the programme. They reflect the unique characteristics and strengths of the department and are framed in line with the respective field of study.

- **Course Outcome (CO)** means the specific, measurable knowledge and skills that students are expected to achieve upon completing a course. It reflects the intended learning achievements aligned with the programme outcomes. Generally, a three credits 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**

Each 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.

2.2.2. CDIO Frame work

The curriculum is structured in alignment with the CDIO (Conceive–Design–Implement–Operate) engineering education framework adopted by TCE. This framework integrates experiential learning, real-world problem solving, and competency-based outcomes into the programme design to ensure graduates are industry-ready and capable of addressing contemporary engineering challenges.

2.2.3. Programme Duration

- (i). The duration of the Programme is FOUR academic years (Eight Semesters) for a student admitted to the Programme with qualifications as prescribed in Clause 1.6.1 of these Regulations and THREE academic years (Six Semesters) for a student admitted directly to the second year (Lateral Entry) with qualifications as prescribed in Clause 1.6.2 of these Regulations.
- (ii). The student shall complete all the requirements as per the curriculum and these Regulations within a duration of four academic years. However, under the CBCS framework, a student may distribute the course and credit load across semesters, subject to the prescribed credit limits and other academic requirements, and shall be permitted to complete the Programme within a maximum duration of FIVE academic years.
- (iii). The duration specified in Clause 2.2.3(i) may be extended by ONE year, subject to a maximum duration of FIVE years, for students permitted to avail an authorised Break of Study, as per this Regulations.
- (iv). '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 2.2.3 [(i), (ii) & (iii)]. Eligibility here refers to enrollment assigned to the student by CoE office for appearing in the end semester examination.
- (v). After programme completion if there are any arrear course(s), a student shall be permitted to successfully complete the same, within 'SEVEN' years for students admitted under Clause 1.6.1 and 'SIX' years for students admitted under Clause 1.6.2. This maximum duration for successful completion shall be reckoned from the date of original admission to the programme. Such students will be considered as private candidates by

COE.

- (vi). In case of a student prevented from appearing in the end semester examination (not in first semester) 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 'SEVEN' years (students admitted under Clause 1.6.1) and 'SIX' years (students admitted under Clause 1.6.2).
- (vii). If a student extends his/her study beyond four years due to repetition of courses on account of shortage of attendance, he/she shall pay the tuition fee and other applicable fees prescribed for regular students. Upon successful completion of all the courses, the student shall be awarded the degree in Second Class.

2.2.4. Course Categories

Every B.E. / B. Tech. Programme will have a curriculum consisting of theory and practical courses, with prescribed syllabi as categorized below:

- (i). **Basic Science Courses (BSC)** include courses such as Engineering Mathematics, Engineering Physics, Chemistry, etc.
- (ii). **Engineering Science Courses (ESC)** include courses such as, Programming, Data Science, Biology for Engineers, Design Thinking, Introduction to Engineering, etc.
- (iii). **Humanities, Social Sciences & Management Courses (HSMC)** include courses such as English, Project management, Accounting and Finance, etc.
- (iv). **Programme Core Courses (PCC)** are the core courses relevant to the chosen discipline.
- (v). **Programme Elective Courses (PEC)** are the courses which can be chosen from a larger pool of courses and are very specific / specialized / advanced / supportive to the discipline which nurtures the students' proficiency in the discipline. Courses completed under ISC/CTM should be categorized under PEC.
- (vi). **Open Elective Courses (OEC)** are elective courses chosen from other disciplines, with an intention to expose the students to interdisciplinary / multidisciplinary / transdisciplinary/ Emerging fields. The OEC basket may include Foreign Language and Intercultural Communication courses offered as interdisciplinary electives to develop students' global communication, cultural awareness, and employability skills, with credits as prescribed in the respective curriculum.

- (vii). **Employability Enhancement Courses (EEC)** are courses designed to improve students' employability by developing practical skills, industry readiness, and hands-on experience. They include components such as projects, skill-based activities, and applied learning tasks that strengthen professional competence and enhance career opportunities.
- (viii). **Industry Supported Courses (ISC)** are offered to enable students to expand their knowledge and skills in niche areas and to meet the ever-changing needs of relevant industries. These courses will be handled by industry experts or offered through industry-provided online modules. Courses delivered as online modules must include evaluation through a proctored examination. ISC courses shall come under the category of PEC.
- (ix). **Credits through MOOCs (CTM)** Student shall have the option of registering courses in online mode with other institutes or by the institution with prior permission from the head of the department. Students shall opt the MOOC offered by SWAYAM / NPTEL portal, TCE MOOC subjected to the condition that the certificate provider should conduct a proctored exam.
- (x). **Audit Courses (AC)** are the courses which encompass a wide range of areas, from arts, and humanities to the sciences and technology, by and large, adds value to the programme of study. Various activities towards personality development such as NCC / NSS/ NSO / YRC, etc. are also part of Audit course.
- (xi). **Value Added Courses (VAC)** are the courses not prescribed in the respective curriculum, but are offered to the students to provide additional value to the programme, for enhancing the knowledge and skills of the student. Completion of these course(s) is not mandatory for successful completion of the programme.

The recommended distribution of credits for each category is given below:

Sl. No.	Category	Credits	
		Regular	Lateral Entry
A.	Humanities and Social Sciences including Management Courses (HSMC)	11	8
B.	Basic Science Courses (BSC)	22	6
C.	Engineering Science Courses (ESC)	23	12
D.	Program Core Courses (PCC)	75	62
E.	Program Elective Courses (PEC)	21	21
F.	Open Elective Courses (OEC)	6	6
	• Interdisciplinary Elective	3	3
	• Basic Science Elective / Foreign Language Elective	3	3
G.	Employability Enhancement Courses (EEC)	16	16
H.	Internship and Mandatory Audit Courses (AC) as per Regulatory authorities (Non-Credit and not included in CGPA)	-	-
Minimum Credits to be earned for the award of the Degree		174	131
		From A to G and the successful completion of H	

2.2.5. Medium of Instruction

Medium of Instruction for all the B.E., / B. Tech., programmes is 'English'.

2.2.6. Assignment of Credits

- (i). Each course is assigned with credits with respect to number of contact periods/week as given in Table 1

Table 1 – Credits for Contact Periods

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

- (ii). ONE credit is assigned to 'Industrial training / Internship' for every

‘TWO WEEKS’ duration.

- (iii). ONE credit is assigned to ‘SWAYAM / NPTEL’ courses for every ‘FOUR WEEKS’ duration.

2.2.7. Course Code

A course code is a unique alphanumeric identifier assigned to each course in a programme. It helps organize the curriculum systematically and supports easy referencing across regulations and academic documents. Course codes are essential for uniquely identifying courses, assisting in curriculum planning and academic administration, tracking revisions and versions, and maintaining clarity and consistency during audits, reviews, and accreditation processes.

Every course code shall consist of five components, arranged in the sequence:

RR AA C U V

Where each component is defined as follows:

- i. **RR – Regulation Code**
 - Represents the regulation under which the course belongs.
 - Consists of two digits (e.g., 26 for Regulation 2026).
 - Ensures clear differentiation between curricula of different regulatory years.
- ii. **AA – Programme Code / Common Course Code**
 - Refers to the code for the academic programme offering the course.
 - Consists of two alphabets (e.g., EE for Electrical and Electronics Engineering).
 - Enables programme-wise classification and tracking.

Table 2 Programme Code for Each Programme

Programme Code / Department Code	Degree	Name of the Programme / Department
CE	B.E.	Civil Engineering
ME	B.E.	Mechanical Engineering
EE	B.E.	Electrical and Electronics Engineering
EC	B.E.	Electronics and Communication Engineering
CS	B.E.	Computer Science and Engineering
IT	B.Tech.	Information Technology

CB	B.Tech.	Computer Science and Business Systems
AM	B.E.	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
MT	B.E.	Mechatronics Engineering
ER	B.E.	Electrical and Computer Engineering
EV	B.Tech.	Electronics Engineering (VLSI Design and Technology)
FT	B.Tech.	Fashion Technology
MA	-	Offered by Mathematics Department
PH	-	Offered by Physics Department
CH	-	Offered by Chemistry Department
EG	-	Offered by English Department
CC	-	Common Course Code

Note: Programme code for B.E. / B.Tech. degree programme introduced in future, will be allotted with approval of standing committee.

iii. **C - Course Category**

- Indicates the category or nature of the course.
- Assigned as a single alphabet or number representing the course type.
- Recommended course type codes include:

Table 3 Code for each Category of Course

Code	Course Type
C, D	Programme Core Courses
S	Basic Science Courses
E	Engineering Science Courses
L	Employability Enhancement Courses
H	Humanities, including Management Studies
P, Q, R	Programme Elective Courses
G	Open Electives
F	Basic Science Electives
1, 2	Industry-Supported Course

V	Value-Added Course
A	Audit Courses
N	NPTEL Courses
M	TCE MOOCS Courses
T	Internship

iv. **U – Unique Identification of Course**

- A single alphabet, from A to Z except I and O, representing the unique identifier assigned to each course within a programme.
- Ensures that no two courses under the same programme and regulation have identical codes.

v. **V – Version**

- A single digit number indicating the version or revision of the course.
- Useful when courses undergo updates, restructuring, or syllabus revisions.
- Allows proper tracking of curricula across multiple revisions.

For example, in B.E., Electrical and Electronics Engineering programme, a particular PCC offered in the first semester is denoted as 26 EE C A 0, where 26 represents the regulation, EE represents the programme, C represents Programme core course, A represents the unique identity of the course and 0 means the initial version of the course.

Part III- Academic Process

3.1. Academic Calendar

The dates of all academic activities including those of course registration, first and the last days of classes, continuous Assessment Tests, End Semester Examinations, arrear examinations, project reviews, vacation and various activities scheduled in the academic year are published in the Academic Calendar every year. The academic calendar for each year shall be available in the Institution website before the commencement of the academic year.

3.2. Class Timings

The classes are usually scheduled between 09:00 AM to 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 5-day week, from Monday to Friday.

3.3. Faculty Tutors

Every Department of TCE operates in a system with faculty tutors, where a faculty member is assigned to look after the academic welfare of around 25 students. The faculty tutors offer all the necessary guidance and help in academic matters, and, if need be, in personal matters also. Students are expected to consult the Faculty Tutor on any matter relating to their academic performance and the courses they may take in various semesters. The following are some of the roles and responsibilities of a faculty tutor:

- Discuss what the student already knows about the institutional system and give the students relevant information, especially in the beginning of the student's academic programme.
- Review courses already taken and those offered in the upcoming semester.
- Serve as a guide to the students in their course selection.
- Serve as a liaison between students and course instructors on many academic matters including learning disabilities, language barriers, etc.
- Review students' academic progress at least once a semester.
- Identify cases where the students' performance is deteriorating. Discuss with the student and suggest avenues for improvement / support.
- Provide the details about scholarship, placement, co-curricular and extra- curricular

activities of the students.

3.4. Registration of Courses

- i. Each student admitted is required to register the courses before the commencement of each semester to undergo the courses during that semester in the Institute in the online portal facilitated by the institution. Registration is a very important procedural part of the academic system for ensuring that the student's name is on the roll list of each course that the student wants to study during the semester.
- ii. Registration for courses has to be done through the web-based system during the prescribed dates as per the Academic Calendar. The submitted registration will be considered auto approved and hence students are advised to carefully complete the registration process. Responsibility for completion of the registration process correctly on time, rests with the students and they may approach the Tutor, Department level coordinators and Head of the Department concerned, for any clarifications. Students shall be permitted to withdraw from registered Programme Elective Courses within five working days from the commencement of classes.
- iii. Programme Elective Courses shall be chosen from the specialized groups designated as Verticals. Students may select courses from the various Verticals specified in the respective curriculum, subject to the condition that all applicable pre-requisites have been successfully completed.
- iv. A student can choose all the Programme Elective Courses either from one of the verticals or a combination of courses from more than one vertical in a semester. Minimum registration of 30 students is required to offer a Programme elective course and open elective course. This minimum registration of students is not applicable for offering the courses under B.E. / B. Tech. (Hons) and B.E. / B. Tech. Minor Degree.
- v. Students registered under the B.E./B.Tech. (Hons) or Minor Degree pathways shall not register for the Programme Elective Courses (PECs) offered to the regular cohort. Courses offered under the Honours and Minor Degree pathways are exclusive to those programmes and shall not be offered to other students. All Honours and Minor courses shall be registered separately by the respective students and shall not be open for registration by the regular cohort.

- vi. Students shall register for courses in a given semester with a maximum credit limit of 32, inclusive of courses re-registered due to Lack of Attendance (LOA). This credit limit excludes courses registered for the Honours or Minor Degree programmes in earlier semesters. However, there shall be no credit limit for the registration of arrear courses.
- vii. A student shall not re-register for the courses which are successfully completed by the student, for any reason(s) whatsoever.
- viii. Students shall be permitted to register additional courses over and above the courses prescribed in the respective curriculum, under PCC / PEC / OEC in any programme as value added courses with the prior permission of the Head of the Department of the student and also from the Head of the Department offering that particular course. The credits earned for such value-added courses shall be printed in the grade sheet and not considered for the computation of CGPA.
- ix. In case a student is unable to complete the Programme as per clause 2.2.3 (iv) within four academic years, he/she shall be required to pay the prescribed tuition fee for registering the pending courses in the fifth academic year, as per the norms of the Institution.
- x. The entire registration process should be completed within ten working days from the date of commencement of course registration.

3.5. Attendance Criterion

- i. The students are expected to attend all the classes without fail. The institution mandates a minimum of 75% attendance to the students in each course to be eligible for appearing in the End Semester Examination of the particular course. Attendance of the student is calculated as follows.

$$\% \text{ of attendance} = \frac{\text{Actual number of classes attended in the course}}{\text{Total number of classes conducted in the course}} \times 100$$

- ii. If a student is unable to secure 75% attendance required to be eligible to appear for the end-semester examination but has at least 65% attendance, then the Medical Certificate/On Duty may be considered, with the approval of the respective Head of the

Department, for calculation of attendance as follows:

$$\% \text{ of attendance} = \frac{\text{Actual no. of classes attended}}{\text{Total no. of classes conducted} - \text{no. of classes held during medical Leave/ On duty leave}} \times 100$$

- iii. For medical reasons, if a student is unable to attend classes, a Medical Certificate shall be furnished to the concerned Head of the Department through the respective faculty tutor within five days from the date of reporting back to class work. Faculty Tutor should record the same in student record. Under any circumstances, medical certificate(s) submitted after the due date, as stipulated in Clause 3.5(ii) shall not be accepted and in this case, % of attendance of the student is calculated as given in Clause 3.5(i).
- iv. Students shall obtain prior approval from the respective Head of the Department (HoD) to participate in campus recruitment activities, project competitions, internships, co-curricular and extra-curricular activities, including Sports. For recognized sports activities, the student shall obtain permission from the Principal, through the Physical Education Director and the respective HoD. Only activities approved in advance by the HoD shall be considered as 'On-Duty' attendance. If a student fails to secure the required 75% attendance, but has not less than 65% attendance, the approved On-Duty attendance may be considered to determine eligibility for the End Semester Examination.
- v. The student shall be prevented from appearing in the end semester examination for a particular course, if the attendance in that course is less than 75%. Students who are prevented for 'Lack of Attendance' shall repeat the course, when offered next in the subsequent semester(s) by the Department. However, for elective courses the student can choose the same elective or any other elective offered in the subsequent semester. If the academic regulation is changed, equivalent courses for PCC categories shall be recommended by the respective Head of the Department and passed in the respective Board of Studies meeting and approved in the meeting of Academic Council. Then, the student has to undergo these courses for completion of the programme.
- vi. If a student has shortage of attendance in all the registered courses in a semester, the student shall not be permitted to attend the courses of subsequent semester. In such

case, the student has to repeat all the courses in the next Academic year, when offered next by the Department only after obtaining readmission from DOTE and Anna University. However, the student can appear for arrear exam, if any.

- vii. Students who got eligible attendance under clause 3.5 ii & iv shall apply for condonation to the Principal through the respective Head of the Department within the three working days from the last lecture day. After the approval from the principal, the student shall be permitted to appear for the current semester examinations by paying the prescribed fee as per COE norms in practice. However, the students who have represented the college in NCC/NSS/Sports at University/ State/ National/ International level are exempted from the condonation fee.
- viii. A student may apply for condonation for attendance shortage a maximum of two times during the entire programme. If a student continues to have a shortage of attendance even after availing two condonations, the Standing Committee shall review the genuineness of the case for one more time. Based on its recommendation, the student may be permitted to appear for the End-Semester Examinations with condonation or be required to repeat the course. However, if a student incurs a shortage of attendance in any subsequent semester after availing the maximum permitted condonations, the student shall mandatorily repeat the course.

3.6. Withdrawal

A student who is eligible to appear for the End-Semester Examinations may be permitted to withdraw a course or courses from the end semester examination, except during the first semester, for bona fide reasons (such as hospitalization, accident, or specific illness) only once during the entire duration of the degree programme. The student has to submit an application in the prescribed format available on the Institution website to the Controller of Examinations, with prior approval of the Principal, through the Head of the Department, before the commencement of the End-Semester Examinations.

In case of medical emergencies alone, post-facto approval may be accorded with prior intimation received from the student or parent or guardian by the Head of the Department and the Principal. Students shall appear for the 'End Semester Examination' in the subsequent semester. The courses withdrawn shall not be considered as an

appearance for classification of degree.

3.7. Break of Study,

Students shall be permitted to avail ONE 'Break of Study' for a period of ONE year (two consecutive semesters) in the entire four-year programme, except during the first semester, and only for bona fide reasons (such as hospitalization / accident / specific illness) only. However, Break of Study shall also be granted for above-said bona fide reasons, for a period of SIX months (One semester) to the students who have already completed up to the Pre – final semester of the programme. The student shall apply for Break of Study (application to be downloaded from the Institution website) to the respective Head of the Department through email / letter, which in turn shall be forwarded to the Principal for further action. Under any circumstances, student is not permitted to request for Break of Study retrospectively and also request for Break of Study will not be accepted after the list of students prevented to appear end semester examination due to lack of attendance was prepared. Duration of the Programme, is 'as given in Clause 2.2.3 includes the period of above approved Break of Study. Students who are granted 'Break of Study', shall be allowed to appear for the End Semester Arrear Examinations for backlog courses, if any, during the period of Break of Study.

After the end of approved 'Break of study', student shall be permitted to re-join the programme in that particular semester, for which 'Break of Study' has been granted to the student. Regulations & Curriculum in force for the specific semester, at the time of re-joining shall be applicable. Appearance of the student (including absence) in the end semester examinations for these courses in that particular semester shall be considered as 'First Appearance'. If there is any change of Regulations & Curriculum, the student has to undergo additional courses or get exemption from undergoing the courses, as recommended by the committee, constituted by the head of the department of the student, for this purpose. Recommendations of this committee, with the approval of the Principal, shall be sent to the Controller of Examinations, for further action

3.8. Unauthorized Absence

If a student has not reported officially to the Head of the Department for the entire duration of the semester, without any prior written request (hardcopy or email to official ID of the respective Head of the Department) for 'Break of Study', admission of the student

stands cancelled automatically and name of the particular student shall be permanently removed from the roll list, following the Institution procedure. This Institution procedure includes prior intimation to the student & parent / guardian through email/ letter communication regarding unauthorized absence.

3.9. Termination

- i. A student who is not able to complete the requirements for the award of degree, within the maximum permissible duration prescribed in clause 2.2.3, shall be deemed to have been automatically terminated from the programme and Transfer certificate shall be issued forthwith.
- ii. Students faced with disciplinary action for any serious offence (For example: ragging) may face premature termination from the programme, based on the recommendations of the disciplinary action committee.

Part IV – Teaching–Learning and Evaluation

4.1. Teaching–Learning Process and Pedagogical Practices

4.1.1. Course Plan

For every course offered, the faculty member shall prepare a detailed Course Plan outlining the course objectives, outcomes, syllabus coverage, schedule of lectures, laboratory sessions (if any), assessment components, learning resources, and pedagogical methods to be adopted. The course plan will also provide the term work and hours for self-learning time required for the student as per National Credit Frame Work (NCrF). The Course Plan shall be shared with students at the beginning of the semester. This practice ensures transparency and facilitates effective teaching–learning alignment with the Course Outcomes (COs).

4.1.2. Active Learning and Pedagogical Practices

The teaching–learning process shall emphasize active and student-centric learning. Faculty members are encouraged to employ a variety of pedagogical practices such as problem-based learning (PBL), project-based learning, flipped classrooms, collaborative learning, and experiential learning. The use of ICT tools, simulation software, case studies, and industry-based assignments shall be integrated to enhance conceptual understanding and practical application. Continuous improvement of pedagogy through feedback and peer review is encouraged.

4.1.3. English Proficiency Test

All newly admitted students under clause 1.6.1, shall undergo an English Proficiency Test during the student induction programme to assess their communication skills in English. Students who do not secure the prescribed minimum score should enroll and pass a mandatory Audit course on Basic English Course in the first semester. This course aims to strengthen foundational language and communication skills. Only upon successful completion of this mandatory course student shall be permitted to register for the Technical English course in the subsequent semester. For students admitted under 1.6.2, shall undergo an English Proficiency Test during the student induction programme to assess their communication skills in English. Students who do not secure the prescribed minimum score should enroll and pass a mandatory Audit course on Basic English Course in the third semester.

4.2. Assessment and Evaluation System

- 4.2.1. The courses to be offered are decided by the Department concerned, taking into consideration all the requirements of the Programme.
- 4.2.2. Each course is conducted by a Course Instructor and the Course Instructor has the overall responsibility for successful conduct of class work and shall maintain the attendance and assessment record of the students for the courses handled.
- 4.2.3. Semester-wise performance assessment of the student is evaluated through continuous assessments & end semester examinations, and in some courses through continuous assessments only. Each course, theory, practical and theory cum practical shall be evaluated for a maximum of 100 marks.
- 4.2.4. 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%.
- (i). 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%

- (ii). End semester examination shall be conducted for 100 marks for a duration of THREE hours.
- 4.2.5. 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%.
- (i). 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**

S. 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%	

4.2.6. 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

4.2.7. Project

For Project, a student or a group of students (not exceeding four) shall work on a topic of interest under the guidance of a faculty member, who will serve as the Project Supervisor. The supervisor shall interact with the student(s) regularly (at least twice a week). Students shall submit a project report for each phase and defend it before the designated evaluation panel. Project work is offered across **four phases** from **V Semester to VIII Semester, one project work per semester.**

a. Semester V to Semester VII

- For Project Work from Semester V to Semester VII, each phase shall include three review assessments followed by a final viva-voce examination. Separate evaluation rubrics shall be prescribed for each review, and all reviews shall be completed on or before the dates specified in the academic calendar.
- At the end of each semester, students shall submit the project report and appear for the viva-voce examination. The End-Semester Examination for Project Work in Semesters V and VII shall be evaluated by the Project Supervisor serving as the Internal Examiner, one reviewer nominated by the Head of the Department, and one additional faculty member acting as an examiner. Each examiner shall independently evaluate the project report, presentation, and demonstration for a consolidated maximum mark of 100.
- The project marks will be converted as per the prescribed weightage for Continuous Assessment and the End-Semester Examination marks shall be distributed as specified in Table 7

**Table 7- Weightage for Continuous Assessment &
End Semester Examination for Project Work**

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

b. Semesters VI and VIII

- For Project Work in Semesters VI and VIII, there shall be three review assessments followed by a final viva-voce examination. Separate rubrics shall be prescribed for each review, and all reviews shall be completed on or before the dates specified in the academic calendar.
- At the end of the semester, students shall submit the project report and appear for the viva-voce examination. The End-Semester Examination shall be evaluated by the Project Supervisor serving as the Internal Examiner, one reviewer nominated by the Head of the Department, and one external examiner who is an expert from another premier institution. Each examiner shall independently evaluate the project report, presentation, and demonstration for a consolidated maximum of 100 marks.
- The marks are converted as per the prescribed weightage for Continuous Assessment, and the End-Semester Examination marks shall be distributed as specified in Table 7.

(i). A student may, however, in certain cases, be permitted to work on the project in an Industrial/Research Organization, on the recommendation of the Head of the Department, with the approval of the Head of the Institution. In such cases, the Project work shall be jointly supervised by a faculty member (Guide) of the department and an Engineer / Scientist from the Organization and the student shall be instructed to report the progress periodically and to attend the project review committee meetings for evaluating the progress. These students will produce a certificate of attendance and project completion report from the Industry/ Research Organization where the project is done.

(ii). If the project report is not submitted on or before the specified deadline, an extension of time up to a maximum limit of 30 days may be given for the submission of project work with due approval obtained from the Head of the Department.

(iii). Every Project Guide is required to maintain an Attendance and Continuous Assessment Record which consists of attendance marked for each project work.

4.2.8. **For 'Internship cum Project Work'**, a student or a group of students (not exceeding four) who are selected for the internship, shall work in a project in the industry concerned that mandatorily requires an internal guide & external guide. On receipt of

the intimation letter / Email regarding the internship, the Head of the Department concerned shall nominate a Guide for smooth progression of the works.

- (i). Internal Guide is a faculty from the department of the student.
- (ii). An external guide shall be identified at the time of offering the internship to the students by the industry concerned and the external guide has to interact with the internal guide at regular intervals for formulation, monitoring and completion of the project work. Internal guide shall be a review committee member for evaluating the progress of the work and performance of the student(s). Bona fide certificate for the completion of the 'Internship cum Project Work' shall be approved by both internal guide and external guide.
- (iii). Any confidential / Intellectual Property Rights matters related to the industry concerned, shall be discussed by the external guide from the industry, at the beginning of the internship cum project work with the student(s) and the internal guide(s), in order to arrive at the problem definition & formulation of objective(s) of the Internship cum Project Work.
- (iv). For undergoing 'Internship cum Project Work' in hassle-free manner and also in the large academic interest of the students and also to maintain the quality of the project work, sufficient information and data shall be provided by the industry concerned to the student / group of students and the same shall be ensured by the internal guide(s) at the beginning and at regular intervals, for successful completion of the 'Internship cum Project Work'.
- (v). Evaluation of 'Internship cum Project Work' is as per Table 7 in Clause 4.2.7.

4.2.9. If any student ***appears*** as a Private Candidate (after completion as per clause 2.2.3(v)) for arrear Examinations, the continuous Assessment Marks earned by the student will be nullified and only the marks earned in the arrear examination will be considered for passing the course as prescribed in the Scheme of Examinations (Minimum Marks for Pass)

4.2.10. ***For 'Internship / Industrial Training'***, a student shall undergo 'Internship / Industrial Training' for a period as stipulated in the respective curriculum of the Programme. The industry in which the student proposes to undergo Internship / Industrial Training, shall involve in Design / Fabrication / Production / Manufacturing / Testing / Research

& Development / Services, etc. in alignment with the fields related to the programme. Students can earn a maximum of one credit through Swayam plus courses and one credit through in – lab internship organized by respective department of the student. After completing the Internship / Industrial Training, the student shall submit a detailed report along with the attendance certificate issued by the concerned industry. A committee comprising a team of faculty members (maximum of three), constituted by the Head of the Department, will evaluate the report and award the credits. Students will earn 0.5 credit per week of internship, and the credits earned under this category shall not be considered for the computation of CGPA. Students must earn a **minimum of three credits** under this category.

4.2.11. **Personality and Character Development:**

All students shall register, on admission, in any one of the personality and character development programmes (NCC/NSS) and undergo training and attends camps as prescribed by the respective officers / coordinators. The training shall include classes on hygiene and health awareness and also training in first aid.

- **National Cadet Corps (NCC)** will have a number of parades/camps specified by the NCC officer.
- **National Service Scheme (NSS)** will have social service activities in and around the college specified by the NSS coordinator
- Sports, games, drills and physical exercises specified by the Physical Director. While the training activities will normally be during weekends, the camp will normally be during vacation period. Every student shall put in a minimum attendance in the training and attend the camp. The training and camps shall be completed during the first year of the programme. However, for valid reasons, the Principal may permit a student to complete this requirement in the second year. Any credit earned under clause 4.2.11 will not be included in CGPA calculation.
- If a student attends a camp in NCC/NSS for two weeks it can be considered for awarding 0.5(equivalent to one week of internship) credit under clause 4.2.10

4.2.12. Students are prohibited from entering into the Examination Hall / Laboratories with any book or portion of book, manuscript, or paper of any description or Communicating with or copying from each other or communicating with anyone outside the Examination Hall

/ Laboratories. Programmable calculator, mobile phone, smart watch, head phones, earbuds, any electronic device with Bluetooth or wi-fi connections shall not be permitted inside the Examination hall / Laboratories. However, any required codebooks and data sheets / books as specified in the question paper will be supplied inside the Examination hall / laboratories by the office of the Controller of Examinations. The students are warned that any form of Malpractice will be dealt with severely. The punishment may be canceling all the examinations registered by the student in that semester and debarring permanently from all the examinations and disciplinary action will be taken by the college authorities after conducting enquiry.

4.3. Industry Supported Course (ISC)

- (i). Student can take Industry Supported Courses subjected to maximum of Six credits. A student shall register two courses in a semester. Students are also permitted to register for these courses offered by other departments, provided the student has fulfilled the necessary pre-requisites of the course being offered.
- (ii). Course syllabus of ISC shall be framed by the identified industrial expert with minimum 5 years Industrial experience in the specific domain, in consultation with the faculty Coordinator. Content shall be of trans / interdisciplinary in nature, with practical applications such as case studies, standards, certifications, etc. The Syllabus of ISC shall be passed in Board of Studies meeting and subsequently approved in the meeting of Academic council.
- (iii). Departments may offer online courses fully designed and delivered by leading industries, subject to the condition that such courses are evaluated under a proctored mode. In these cases, the courses shall be identified in advance, and the necessary approvals shall be obtained from the Board of Studies and the Academic Council.
- (iv). Proposal for conduct of ISC shall be submitted by a faculty member, who is the Coordinator of the ISC, to the Head of the Department concerned at the commencement of each semester for conducting ISC(s) in the subsequent semester, as per the curriculum.
- (v). Classes shall be conducted by the industry expert through physical / Online / hybrid mode during the weekends. Attendance register for ISC shall be maintained by the Coordinator.
- (vi). Size of the batch shall be less than or equal to 75.

- (vii). A student shall be permitted to register for and complete Industry Supported Courses (ISCs) in excess of the maximum requirement of six credits. For the purpose of GPA/CGPA computation, only the best six credits obtained in ISCs, based on the highest grades, shall be considered. Any ISC(s) completed beyond these six credits shall be treated as Value Added Courses (VACs). The grades/results of such VACs shall be reflected in the Grade Sheet; however, the credits earned under VACs shall not be reckoned for the calculation of GPA/CGPA.
- (viii). All ISC courses shall be evaluated through continuous assessment only, and no End-Semester Examination shall be conducted. The continuous assessment shall be carried out by the Faculty Coordinator, who shall submit the marks to the Controller of Examinations within two weeks of the completion of the course or before the commencement of the End-Semester Examinations, whichever is earlier. If a student fails to successfully complete a registered ISC course or is absent for the terminal examination, no supplementary examination will be conducted. The attempt will not be treated as an arrear and the registration will be considered cancelled. The student may re-register for the same course when it is offered again and complete it successfully.
- (ix). At the end of each ISC, students' feedback shall be obtained and reviewed by the respective Head of the Department and Faculty Coordinator, for further refinement of the course.

4.4. Summary of weightage of CAT & End Semester

In summary, the weightages for Continuous Assessments & End Semester Examination for various category of courses is given in Table 8 as follows.

Table 8 – Summary of Weightages for Continuous Assessments & End Semester Examination for various category of courses

S. No.	Type / Category	Continuous Assessments	End- Semester Examinations
1.	Theory	40%	60%
2.	Theory cum practical	50%	50%
3.	Laboratory	60%	40%
4.	Project Work / Internship cum Project Work	60%	40%

5.	Internship / Industrial Training	100%	---
6.	Industry Supported Course	100%	---
7.	Employability Enhancement Courses	60%	40%
8.	Audit Course (except two courses 26TAAA0 Heritage of Tamils and 26TAAB0 Tamils and Technology)	100%	----

4.5. Passing Criteria in a Course

A Student is declared 'PASS' in a course upon satisfying the following conditions.

- (i). **For Theory, Laboratory & Theory cum Practical**, a student shall secure a minimum of 45% of marks in the end semester examination and also obtain a minimum of 50% marks in total combining both Continuous assessments and End semester examination.
- (ii). **For Project Work / Internship cum Project Work**, a student shall secure a minimum 45% of marks in the end semester examination (Project report evaluation & Viva-Voce examination) and also obtain a minimum 50% marks in total combining both 'Continuous assessments and End semester examination (Project report evaluation & Viva-Voce examination)'.
- (iii). **For Internship / Industrial Training**, the student shall secure a minimum 50% of marks in the continuous assessments.
- (iv). **For 'Industry Supported Courses'**, a student shall secure a minimum 50% of marks as per the assessment pattern presented in the syllabus.
- (v). **For 'Audit Courses'**, a student shall secure a minimum 50% of marks, in continuous assessments and credits earned shall not be considered for computation of CGPA.
- (vi). **Grade** point obtained by a student shall be first converted into 10- point scale and a new equivalent grade shall be awarded as per Clause 4.8.1 of the regulations. If the decimal of grade point is equal to 0.50, then the grade point shall be rounded-off to next **higher** integer; otherwise, the grade point shall be rounded-off to next **nearest** integer. For example, 1, if a student secures a grade point 8.50 for 10-point scale and rounded-off to 9. Hence, the new equivalent grade for grade point '9' is 'A+' as per Clause 4.8.1 of the regulations. For example, 2, grade point secured by a student for a 10-point scale shall be 7.14 and rounded-off to 7. Hence, the new equivalent grade is

for grade point '7' is 'B+'.

4.6. Publication of Results and Reassessment

- (i). Publication of examination results shall be within fourteen working days from the date of completion of regular end semester examinations of a particular programme.
- (ii). A student can apply for reassessment of his/her semester examination answer paper in theory and Theory-cum-Practical courses (treated as theory examination in the end semester examination), within five working days from the declaration of results, on payment of a prescribed fee, as specified by the Controller of Examinations from time to time. The Controller of Examination will arrange for going through the answer scripts by the students and to make appeals. The reassessment results will be published before the commencement of supplementary examinations.

4.7. NOT SATISFYING 'PASSING' CRITERIA

A student who has not satisfied the passing conditions in,

- (i). **Theory, Theory cum practical & Laboratory courses**, a student has to reappear in the 'End Semester Examination' in the subsequent semester(s). In such case, the continuous assessment marks obtained in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the fourth attempt (including the first appearance) onwards the student shall be declared to have passed the examination if the student secures a minimum 50% marks in the end semester examinations alone and continuous assessment marks will be nullified.
- (ii). **Industry Supported Courses / TCE MOOCs Courses (TMC)**, if a student does not successfully complete the ISC/ TMC due to shortage of attendance or fail in the examination, enrollment of the particular ISC/ TMC shall be cancelled and the result will not be reflected in the grade sheet. Student shall register for the same course or any other ISC/ TMC course, in the ensuing semester.
- (iii). **Audit Courses**, the student has to repeat the course, when it is offered in
- (iv). the subsequent semester(s).

4.8. Grading System, GPA/CGPA and Classification of Degrees

4.8.1. Grading of Courses

The award of letter grades will be decided using absolute grading system. This Uniform evaluation method consists of the norms to be followed for the award of marks for

internal and end semester examination of all types of courses, passing requirements, absolute grading and award of the letter grades and classification of degree. The Range of marks, grades and corresponding grade points are given in Table 9.

Table 9 – Grading of Courses

Range of Marks	Grade	Description	Grade Points
91 - 100	S	Outstanding performance with respect to course outcomes; exhibits original and creative thinking, and demonstrates the ability to analyze critically and synthesize information	10
81 - 90	A+	Excellent performance with respect to course outcomes and creative thinking	9
71 - 80	A	Very Good achievement with respect to course outcomes	8
66 - 70	B+	Good achievement with respect to course outcomes	7
61 - 65	B	Above Average achievement with respect to course outcomes	6.5
56 - 60	C+	Average achievement with respect to course outcomes	6
50 - 55	C	Satisfactory achievement	5
< 50	U	Re-appearance	0
-	SA	Shortage of Attendance	0
-	WC	Withdrawal of Course	0

- i. A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: “S”, “A+”, “A”, “B+”, “B”, “C+”, “C”. The Grade ‘SA’ denotes shortage of attendance and hence prevented from writing the end semester examinations. The Grade “SA” will appear only in the result sheet. “U” denotes that the student has failed to pass in that course.

“WC” denotes withdrawal from the exam for the particular course.

Grades “U” and “WC” will appear in both the Grade Sheet and the Result Sheet. In both cases, the student must appear for the End Semester Examination as per clause “Award of Grades” in the Regulations.

If a student receives a “U” grade in Theory or Laboratory courses, they do not need to meet attendance requirements again. However, they must appear for the End Semester Examination and satisfy the conditions given in clause “Award of Grades” in the Regulations to pass the course.

If a student receives a “U” grade in courses evaluated only through internal assessment (except Project Work), they must register for the course again in the next semester and fulfil the requirements specified to pass the course. Attendance requirement need not be satisfied in this case as well.

- ii. For courses categorized under Credits through MOOCs as per clause 5.3 and for practical courses, absolute grading system shall be followed as given in ‘Table 9’ and for NPTEL /SWAYAM courses alone, the corresponding range of marks for each grade is tabulated as follows (Table 10).

Table 10 – 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

4.8.2. Calculation of Grade Point Average (GPA) / Cumulative Grade Point Average (CGPA)

- i. Two parameters, Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) are used to evaluate the academic performance of the student.
- ii. The GPA is the weighted average of the grade points obtained in all the courses registered by the student during the semester. For example, if a student registered five courses (Theory / Laboratory / Project / Seminar etc.) in a semester with credits C1, C2, C3, C4 and C5 and the students’ grade points in these courses are g1, g2, g3, g4

and g5 respectively, then GPA of the student is calculated as:

$$GPA = \frac{(C1 \times g1) + (C2 \times g2) + (C3 \times g3) + (C4 \times g4) + (C5 \times g5)}{(C1 + C2 + C3 + C4 + C5)}$$

- iii. At the end of each semester, the student is issued a semester wise grade sheet. This is a consolidated list of courses registered and grades obtained in that particular semester along with the GPA.
- iv. The CGPA indicates the overall academic performance of a student and is computed to two decimal places in the same manner as the GPA, including courses registered up to the latest completed semester. Grades obtained after successful completion of additional courses, that are not mandatory for minimum requirement for award of degree, shall not be considered for computation of CGPA. However, results of these courses will be printed in the grade sheet.
- v. For the students who have successfully completed the requirements of Honours Degree, grades obtained in the additional courses / Capstone Design Project shall be taken into account for the computation of CGPA.
- vi. For the students who have successfully completed the requirements of Minor Degree, grades obtained in these additional courses shall be taken into account for the computation of CGPA.
- vii. After successful completion of the courses as required for the award of degree, as per the curriculum, a consolidated grade sheet shall be printed and issued to all the students through respective Head of the Department.

4.9. Award of Degree

- i. A student is deemed to have completed the requirements for the award of degree, if the student has:
 - a. Successfully completed all courses prescribed under the respective programme curriculum of the discipline, satisfying the minimum credit requirements of each course category and earned a total credit of 174 ((131 in the case of students admitted under Lateral Entry), in addition to fulfilling all other academic requirements prescribed for the programme.
 - b. No pending disciplinary action against him / her.

- ii. The award of Degree shall be approved by the Anna University.
 - iii. A student who fulfills the following criteria shall be declared to have successfully completed the degree programme as **'First class with Distinction'**
 - a. Should have passed the examination of all the courses in the 'FIRST APPEARANCE' itself, within the prescribed duration as per Clauses 2.2.3 (i-iii) of the regulations.
 - b. Should have secured a CGPA of at least 8.50.
 - c. Should not have been prevented from appearing for any end semester examination(s), for the courses prescribed in the curriculum.
 - iv. A student who fulfils the following criteria shall be declared to have successfully completed the degree programme as **'First Class'**
 - a. Should have passed the examination of all the courses within the prescribed duration as per Clauses 2.2.3 (i-iii) of the regulations.
 - b. Should have secured a CGPA of at least 6.50.
 - v. A student who fulfils the following criteria shall be declared to have successfully completed the degree programme as **'Second Class'**.
 - a. Should have passed the examination of all the courses within the prescribed duration as per Clauses 2.2.3 (i-iii) of the regulations and has secured a CGPA below 6.50.
- (OR)
- b. Should have passed the examination of all the courses within the prescribed duration as per Clauses 2.2.3 (v) and 2.2.3 (vi) of the regulations.
 - vi. A student who fulfills the criteria as prescribed in Honours Degree as per Clause 5.1, shall be declared to have successfully completed the degree programme with **'Honours'** and classified under **'First Class with Distinction'**.
 - vii. A student who fulfils the criteria as prescribed in 'Minor Degree' as per Clause 5.2, shall be declared to have successfully completed the degree programme with **'Minor'** and shall be classified appropriately as per Clause 4.9(iii-v).

Part V – Enrichment and Academic Flexibility

5.1. Honours

- (i). Students often have a strong interest or passion for a particular field or a line of thinking or study, and Honours Degree option enables the student to nurture this interest. Such students shall obtain Honours degree by successful completion of additional SIX ELECTIVE COURSES' over and above the courses prescribed in the respective curriculum from 'FIFTH' semester onwards.
- (ii). Eligibility for any student to opt for the Honours degree is that, the student should earn a minimum GPA of 7.5 in 'THIRD' and 'FOURTH' semesters and also students should not have any history of arrears.
- (iii). Students shall earn 18 credits and split up of credits shall be given in the respective curriculum.

5.1.1. Six Elective Courses for 'HONOURS' Degree

- (i). Students shall opt for 'Honours' Degree by undergoing additional elective courses from the Honours vertical from V to VII semester as listed in the respective curriculum. The student has to earn 18 additional credits, which are related to the major discipline of study. A student shall be permitted to register for a maximum of two NPTEL courses and two TCE MOOC courses, with each course carrying 3 credits. Evaluation and 'PASS' requirement of these courses is as per Clauses 4.2.3, 4.2.4 and 4.2.5 for Theory & Theory cum practical courses respectively.
- (ii). On successful completion of all six elective courses, B.E./B.Tech. (Honours) shall be conferred only on students with no history of arrears. Students securing a CGPA of 8.50 or above shall be awarded B.E./B.Tech. (Honours) – First Class with Distinction, while those securing a CGPA of 7.50 or above but less than 8.50 shall be awarded B.E./B.Tech. (Honours) – First Class.
- (iii). If the student decides to opt out of Honours Degree, after successful completion of certain number of course work(s), these course(s) shall be treated as equivalent to PEC(s). In such case, the student shall be permitted to drop the equal number of PEC(s).

- (iv). If the student successfully completes more number of PECs over and above the SIX mandatory courses, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be only printed on the grade sheet and grade obtained in these courses shall not be considered for computation of CGPA.

5.2. Minor Degree

- i. Eligibility for any student to opt for the Minor degree is that the student should not have any standing arrear and earn a minimum GPA of 7.50 in III and IV semesters.
- ii. A student can register for a 'Minor' degree, from the V semester by registering basket of courses as prescribed in the curriculum of the UG Programme offered by the department other than the parent department of the student. Evaluation and 'PASS' requirement of these courses is as per Clauses 4.2.3, 4.2.4 and 4.2.5 for Theory & Theory cum practical courses respectively.
- i. In order to get a Minor Degree, a student has to successfully complete the basket of courses as prescribed in the curriculum of the Department offering the Minor Degree and earn 18 extra credits. Grades obtained in the basket of courses shall also be considered for computation of CGPA, along with the courses in the curriculum for the programme (mainstream). A student shall be permitted to register for a maximum of two NPTEL courses and two TCE MOOC courses, with each course carrying 3 credits.
- ii. On successful completion of all six elective courses, B.E./B.Tech. (Minors) shall be conferred only on students with no history of arrears. Students securing a CGPA of 8.50 or above shall be awarded B.E./B.Tech. (Minors) – First Class with Distinction, while those securing a CGPA of 7.50 or above but less than 8.50 shall be awarded B.E./B.Tech. (Minors) – First Class.
- iii. If the student decides to opt out of Minor Degree, after successful completion of certain number of course(s), these course(s) can be treated as equivalent to OEC(s). In such case, the student shall be permitted to drop the equal number of OEC(s).
- iv. If the student successfully completes more number of OECs over and above the courses prescribed in the curriculum, the courses with higher grades shall be considered for the computation of CGPA. Remaining courses shall be only printed on the grade sheet and grade obtained in these courses shall not be considered for

computation of CGPA.

Note: The students shall be permitted to opt for either 'Honours' or 'Minor' Degree, during the programme.

5.3. Credits through MOOCs (CTM)

- (i). Student shall have the option of registering courses in online mode with other institutes or by the institution with prior permission from the head of the department.
- (ii). Students shall opt the MOOC offered by SWAYAM / NPTEL portal, TCE MOOC subject to the condition that the certificate provider should conduct a proctored exam.
- (iii). The course shall not have been registered or credited under clause 5.3(ii) as a PEC category at any stage of the programme. PCC shall not be substituted by undergoing CTMs.
- (iv). Maximum credits that a student can earn as per clause 5.3 (ii) Nine credits. However, Students who opt for Minor/ Honours are allowed to take two more credits through NPTEL and two more through TCE MOOC courses as per clause 5.1 and 5.2.
- (v). Number of credits that can be registered shall not exceed 'THREE' per semester, subject to the maximum credit limit of 32, in a semester. For students doing Honours/ Minor degree are allowed to take a maximum of two courses
- (vi). For each department, a Coordinator shall be nominated as a Single Point of Contact (SPoC) by the respective Head of the Department, for coordinating all the activities related to the CTMs.
- (vii). Student who wants to earn credit for courses under CTM should give a requisition letter to the SPoC of the department and should declare that he/she did not study the same course earlier or will not study a similar/same course in future. If any course content submitted by the student has more than 25% of the content of course (PCC or PEC or OEC) the student already studied, then the course will not give credit under CTM. If a student registered the same or similar course (with more than 25% of the CTM course for which he/she already earned credit(s)) then the current course registration will be cancelled.
- (viii). The following credits shall be awarded based on the duration of the online courses.
4 weeks – 1 credit

5.4. Guided Study Course:

A student, who does not have standing arrear in the programme and CGPA greater than 8.0, can study three courses (maximum 9 credits) under PEC in Elective category after fifth semester, as a guided study course. One faculty member approved by the Head of the Department shall be responsible for the periodic monitoring and evaluation of the course. The student does not need to attend the classes. However, the student has to appear for continuous assessment tests and submit assignments to the respective faculty-in-charge assigned by the Head of the Department.

5.5. Course on Research Practice

A student having a minimum CGPA of 7.0 (up to the third semester) and no standing arrears is eligible to register for the course "Research Practice" at the beginning of the fourth semester. The outcome of the course shall be a granted Indian or International (U.S Only) Utility Patent or a publication in an SCI/SCI-Expanded/SCOPUS-indexed journal or conference in Science and Technology. The course carries 3 credits. A maximum of two (2) students may register as a group for this course.

For a Utility Patent, the applicant shall be Thiagarajar College of Engineering, and the first two inventors shall be the student(s), while the third inventor shall be the TCE faculty advisor. For research publications, the students shall be the first two authors, and the third author shall be the TCE faculty advisor who shall also serve as the corresponding author. The maximum number of authors/inventors in a publication or patent shall be limited to four. The student shall work under the guidance of a TCE faculty advisor who has published at least three SCI/SCI-Expanded/SCOPUS-indexed journal articles or has been granted at least one Indian/ International (U.S Only) utility patent.

The student may earn the credits during the subsequent semesters (Fifth to Seventh Semester) upon submission of documentary evidence of the granted utility patent or research publication before the commencement of course enrolment for the Fifth, Sixth, or Seventh Semester. The corresponding grades and credits shall be awarded in the subsequent semester.

The grade point shall be awarded as per the details provided in the following Table.

Table 11: Allocation for Grade for Course on Research Practice.

S.No	Category of Journal	Grade Point
1	One Indian or International (U.S only) Utility Patent granted	10
2	One Research Paper in SCI/SCI-Expanded Journal	10
3	Two Research Papers in SCOPUS indexed Journals	10
4	One Research Paper in SCOPUS indexed Journal	9
5	One Research Paper in SCOPUS indexed Conference	8

Registration under this course is mandatory for availing the above credits. Further, the names of the student(s) and faculty advisor appearing in the granted patent or publication must match those in the approved enrolment records; otherwise, the credits shall not be awarded. This scheme is applicable to the students admitted in 2023 -2024, 2024-2025, and 2025-2026 under the 2022 Regulations, as well as to the students admitted thereafter under the 2026 Regulations.

If the student is unable to obtain a granted utility patent or publish the research work by the end of the sixth semester, the registration shall be automatically cancelled and shall not be treated as an arrear. In such cases, the student must fulfil the programme elective credit requirements by registering for an appropriate elective course in the seventh semester, if required. The grades and credits earned through this course shall be transferred under the Programme Elective – Expanded Scope Category.

Part VI – Governance and Quality Assurance

6.1. Discipline

- i. Every student is required to observe discipline and decorous behavior both inside and outside the college and not to indulge in any activity, which will tend to bring down the prestige of the college. The Principal shall constitute a disciplinary committee to enquire into acts of indiscipline and notify the institution about the disciplinary action recommended for approval. In case of any serious disciplinary action which leads to suspension or dismissal, then a special committee shall be constituted by the Head of the Institution for taking the final decision.
- ii. If a student indulges in malpractice in any test/examinations, the student shall be liable for punitive action as prescribed by the institution from time to time.
- iii. If a student is involved in malpractice in any test or examination and is penalized, and if the same student is found to repeat the offence, the student shall be debarred from attending classes for the entire academic year. The student shall be required to be readmitted to the corresponding semester in the subsequent academic year.

6.2. Grievance Cell

Institution shall have a 'Grievance Redressal Committee' for staff and students. Students shall approach this committee in the event of academic as well as non-academic grievances. This committee shall be constituted by the Principal.

6.3. Counselling Cell

Institution shall have a dedicated 'Counselling' unit. This cell comprises psychological counsellors, faculty representatives and student representatives. This cell shall help and offer advice in all kinds of matters. This counselling cell shall be constituted by the Dean (Student).

6.4. Other Statutory committees:

In addition to the academic and administrative bodies constituted under this Regulation, the Institution shall maintain various statutory committees mandated by governing authorities to ensure a safe, inclusive, and ethically responsible campus environment. These include the Anti-Ragging Committee, SC/ST Cell, OBC Cell, Minority Cell, Anti-Drug

Committee, and the Women Empowerment Cell (WEC). Each committee functions in accordance with the respective regulatory guidelines to address student grievances, promote equity and inclusivity, prevent discrimination or misconduct, and safeguard the overall well-being of the campus community.

6.5. Induction Programme shall be conducted by the Dean (student), aimed at offering the incoming students, an interface to understand and interact with the diverse student community in the Institution. With the Institution having a stringent anti-ragging policy, the programme also doubles up as an excellent icebreaker. The objectives of this induction programme include:

- Welcoming and orienting the new students at the departments
- Guiding the new students about life at the campus and its activities, college fests, etc.
- Providing academic guidance to the students.
- Enforcing the anti-ragging rule.

On the whole, the Induction Programme aims to provide the incoming students with a cordial environment to make their transition to the Institution system as smooth as possible.

6.6. Academic Audit and Continuous Quality Improvement

The Principal shall initiate the academic audit process once in every year, with the coordination and cooperation of the respective Head of the Department, by inviting external expert(s). The Head (IQAC) shall make the arrangements for the conduct of Academic Audit.

Academic audit shall cover (not limited to),

- Course delivery and adherence to the course plan, syllabus coverage, quality of question papers used for continuous assessments, end semester examinations, maintenance of laboratory experimental set ups and equipment, practical assignments, mini projects and conduct of practical classes and their evaluation.
- Co-curricular and extra-curricular activities available for students, the monitoring mechanism of activity points to be earned by the students.

- Academic functioning of the Department encompassing students, faculty and administration covering punctuality, attendance, discipline, academic environment, learning ecosystem, academic achievements and benchmarking.
- The quality criteria prescribed by statutory bodies.
- Action taken report shall be presented to the Internal Quality Assurance Cell of the institution by the Head of the Department, based on audit report for continuous improvement.
- Academic documents of UG programmes for a particular batch of students shall be kept in the respective department for a period of TWO years after the end of programme duration.

6.7. CLASS COMMITTEE

The objective of the Class Committee is to improve the teaching-learning process. The functions of the class committee include:

- Resolving difficulties experienced by students in the classroom and in the laboratories.
- Clarifying the regulations of the degree programme and the details of rules therein.
- Discussing the progress of academic schedule and deviations if any.
- Evaluating the performance of the students of the class after each test and finding the ways and means of improvement.
- Class committee comprises of all the faculty members who are handling courses in that particular semester, faculty tutors, two students as representatives and four student members from the respective classes. A chairperson who is a faculty not handling course for that particular semester, nominated by the Head of the Department of the programme shall coordinate the activities of this committee.
- The class committee shall be constituted by the Head of the Department/Chief Tutor on the first week of commencement of the semester.
- The class committee shall meet three times in a semester as specified in the academic calendar.
- The Principal may participate in any class committee of the institution.

- During these meetings, the representative of the class shall meaningfully interact and express the opinions and suggestions of the other students of the class to improve the effectiveness of the teaching-learning process.
- The Chairperson is required to prepare the minutes of the meeting, signed by the members and submit the same to Head of the Department within five working days of the meeting. Head of the Department will in turn consolidate and forward the same to the Principal, within 10 working days of the meeting.
- In each meeting, the action taken report of the previous meeting is to be presented by the Chairperson of the class committee.

6.8. PROGRAMME PERFORMANCE ASSESSMENT COMMITTEE

The Programme Performance Assessment Committee comprises of the Course Coordinators / Course faculty members and Programme Coordinator, nominated by the Head of Department. This committee shall meet to assess the attainment of Course Outcomes. Program Outcomes and Programme Specific Outcomes, progress and status of the students of the semester concerned at the beginning and end of the semesters. The committee will review the actions taken to improve CO and PO attainment. The committee can invite Faculty mentors and students as invitees.

6.9. Revision and Amendments to Regulations

The standing committee/Academic Council of the College reserves the right to revise or change or amend the regulations, the scheme of examinations, the curriculum and the syllabi from time to time if found necessary.

6.10. SPECIAL CASES:

In the event of any clarification in the interpretation of the above rules and regulations, they shall be referred to the Standing Committee. The Standing Committee will offer suitable interpretations/ clarifications /amendments required for special case on such references and get them ratified in the next meeting of the Academic Council. The decision of the Academic Council is final.
