KPR Institute of Engineering and Technology

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(Autonomous, Affiliated to Anna University)

ACADEMIC

REGULATIONS 2025

B.E. / B.TECH. PROGRAMMES

Applicable to the students admitted in B.E. / B.Tech. Programmes, from the

Academic year 2025 – 2026 onwards

KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY

COIMBATORE

ACADEMIC REGULATIONS – 2025

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1. TITLE

These regulations shall be called ‘Academic Regulations 2025’

2. SCOPE

2.1. The following regulations shall be applicable to the students admitted to the Undergraduate B.E./B.Tech. Programmes of the Institution from the Academic Year 2025–2026 onwards.

3. DEFINITIONS

3.1. **‘University’** means ‘ANNA UNIVERSITY, CHENNAI’.

3.2. **‘Choice-Based Credit System (CBCS)’** is a flexible system of learning that permits students to

a) learn at their own pace.

b) Explore a wide range of elective courses offered by the Departments / Centres.

c) adopt an inter / trans-disciplinary approach to learning

d) make the best use of the expertise and available facilities provided by the faculty and the Institution

3.3. **‘Programme’** means a Degree Programme (i.e) B.E. / B.Tech. Degree Programme.

3.4. **‘Discipline’** means a branch of B.E. / B.Tech. Degree Programme, such as Civil Engineering, Chemical engineering, etc.,

3.5. **‘Semester’** refers to an academic term comprising a minimum of 90 working days, typically with seven ‘Contact Hours’ each day. The semester held from July to November is designated as the ‘Odd Semester’ (I, III, V, VII), while the semester conducted from January to May is referred to as the ‘Even Semester’ (II, IV, VI, VIII).

3.6. **‘Course’** refers to a Theory course, Theory with Laboratory Course, Theory with Project Course, Laboratory Course, or Laboratory with Project Course offered during a semester of the Programme.

3.7. **'Contact Hours'** means duration of Lectures, Tutorials, Practical sessions, or Project Work as applicable.

3.8. **'Credit'** refers to the weightage assigned to a course, determined by the number of contact hours required to deliver the prescribed syllabus. Typically, one credit corresponds to 15 contact hours for theory courses and 30 contact hours for practical sessions.

3.9. **'Continuous Assessment'** refers to the evaluation of a student's progress and performance in a course throughout the semester, conducted through various activities such as tests, assignments, quizzes, presentations, case studies and technology-enabled community service initiatives.

3.10. **'End Semester Examination'** means an examination conducted for a course at the end of the semester to evaluate a student's overall learning outcomes.

3.11. **'Bonafide Student'** means the student who is admitted, joined and on-roll in an Undergraduate Programme.

3.12. **'Head of the Institution'** means the Principal of the College.

3.13. **'Head of the Department'** means the Head of the Department / Centre concerned.

3.14. **'Department Consultative Committee'** refers to a committee formed by the Head of the Department to oversee the academic and developmental activities of the Department.

3.15. **'Controller of Examinations'** refers to the designated authority of the College responsible for all activities related to assessments and evaluations.

3.16. **'Head, Centre for Academic Courses'** refers to the authority of the College responsible for all activities related to academic regulations, curricula, syllabi and academic schedules for all academic programmes, as required.

3.17. **'Academic Council'** refers to the principal academic body of the College, responsible for overseeing and regulating teaching and examination processes, and ensuring the maintenance of academic standards.

4. ADMISSIONS

4.1. Admissions to B.E. / B. Tech Programmes offered by the College shall be made as per the norms prescribed by the Government of Tamil Nadu.

Pass in Higher Secondary Course Examination (Academic stream - 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 Government of Tamil Nadu from time to time.

4.2. Admission of students directly to the second year (Lateral entry) of B.E./ B. Tech programme shall be made 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 an equivalent qualification 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 the Diploma, marks, number of attempts and physical fitness shall be as prescribed by the Government of Tamil Nadu from time to time.

(Or)

Those who possess a Bachelor of Science (B.Sc.) (10+2+3 stream) with Mathematics as a subject at the B.Sc. level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. Programme. Other eligibility criteria such as marks, number of attempts and physical fitness shall be as prescribed by the Government of Tamil Nadu from time to time.

5. PROGRAMMES OFFERED

The following are the branches of study under B. E / B. Tech Degree Programmes.

B. E. Programmes

i. BM - Biomedical Engineering

ii. CE - Civil Engineering

iii. CS - Computer Science and Engineering

iv. AM - Computer Science and Engineering (Artificial Intelligence and Machine Learning)

v. SC - Computer Science and Engineering (Cyber Security)

vi. EE- Electrical and Electronics Engineering

vii. EC - Electronics and Communication Engineering

viii. ME - Mechanical Engineering

ix. MI - Mechatronics Engineering

x. EV - Electronics Engineering (VLSI Design and Technology)

B. Tech. Programmes

i. AD - Artificial Intelligence and Data Science

ii. CH - Chemical Engineering

iii. CB - Computer Science and Business Systems

iv. IT - Information Technology

6. PROGRAMME STRUCTURE

6.1. Curriculum

Every programme has a specific structure, known as the 'Curriculum', which prescribes all the details of courses to be undertaken during the programme and sets out the semester-wise sequence.

6.2. Programme Duration

i. The Duration of the programme is FOUR years (Eight Semesters) for a student admitted to the programme with qualifications as prescribed in Clause 4.1 of these regulations. The student shall successfully complete all the requirements as per the curriculum and regulations of the programme within the above-mentioned duration of 'FOUR' years.

ii. The Duration of the programme is THREE years (Six Semesters) for a student admitted directly to second year (Lateral Entry) with qualifications as prescribed in Clause 4.2 of these regulations. The student shall successfully complete all the requirements as per the curriculum and regulations of the programme within the above-said duration of 'THREE' years.

iii. The Above-mentioned period in Clause 6.2 (i) & Clause 6.2 (ii) shall be extended for 'ONE' more year to a student, who is permitted to avail the authorised break of study or opt to drop courses, as per these regulations.

iv. ‘Programme Completion’ means that a student shall register and undergo all the courses as prescribed in the respective curriculum and become eligible to appear in the continuous assessments and end semester examinations of all the courses within the period as given in Clauses 6.2 [(i), (ii) & (iii)]. Eligibility here refers to issuance of the hall ticket to the student to appear for the End Semester Examination.

v. After programme completion if there are any arrear course(s), a student shall be permitted to successfully complete them within ‘SEVEN’ years (Students admitted under Clause 4.1) and ‘SIX’ years (students admitted under Clause 4.2). This maximum duration for successful completion shall be reckoned from the date of the student’s original admission to the programme. It may change, from time to time, as per the notifications received from the University / DoTE, if any.

6.3. Course Categories

Every B.E./B.Tech. programme shall have a curriculum comprising Theory Courses, Theory with Laboratory Courses, Theory with Project Courses, Laboratory Courses, and Laboratory with Project Courses, with prescribed syllabi categorized as follows:

i. **Humanities Social Sciences and Management Courses (HSMC)** include English, Employability Skills and Management courses, etc.

ii. **Basic Sciences Courses (BSC)** include Mathematics, Physics, Chemistry, etc.

iii. **Engineering Science Courses (ESC)** include courses such as Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Civil and Computer Programming etc.

iv. **Professional Core Courses (PCC)** are the core courses relevant to the chosen discipline.

v. **Professional Elective Courses (PEC)** are the courses which can be chosen from a larger pool of courses and are specific, specialized, advanced, or supportive to the discipline, thereby nurturing the students’ proficiency in the discipline.

vi. **Open Elective Courses (OEC)** are elective courses chosen from other disciplines, with the intention to expose the students to interdisciplinary, multidisciplinary or transdisciplinary fields.

vii. **Employability Enhancement Courses (EEC)** include Project Work, Industrial Training/Internship, Industry oriented courses and Online courses.

viii. **Mandatory Credit Courses (MCC)** expose the students to Tamil Courses, Universal Human Values and Emerging Technology Courses etc., Registration for these courses is mandatory for all the students. Upon completion of these courses, credits earned will be indicated in the semester grade sheet as well as the consolidated grade sheet as additional credits. These additional credits will not be considered for GPA/CGPA calculations.

ix. **Mandatory Non-credit Courses (MNC)** expose students to the induction program, Essence of Indian traditional knowledge, Indian Constitution, Cyber Security Essentials, and Introduction to UN- SDG's: An Integrative Approach. Registration for these courses is mandatory for all the students.

6.4. Medium of Instruction

The medium of instruction is English for all the courses, assessments and evaluations.

6.5. Assignment of Credits

i. The total credit requirement for successful completion of the B.E/B.Tech (Four - Year programme) programme of study in the respective branches listed in clause 5 is 160 for regular students and 117-120 for Lateral Entry students

Each course is assigned credits based on the contact hours, as given in Table 1.

Table 1 – Credit for Contact Hour(s)

Contact Hour	Credits
1 Lecture Hour	1
1 Tutorial Hour	1
2 Laboratory / Project Hours	1
2 Weeks of Internship / Industrial Training / Internship Abroad Universities	1
4 Week Course completed successfully with relevant certification through SWAYAM / NPTEL	1
Credits shall not be assigned fractional values.	

7. INDUCTION PROGRAMME

Students admitted to the first year of the Degree Programme shall undergo a mandatory three-week Induction Programme comprising physical activities, creative arts, Universal Human Values, general proficiency modules, lectures by eminent persons, visits to local areas, and familiarization with the Department/Branch, immediately after admission to the Institution.

8. ACADEMIC SCHEDULE

The dates of all academic activities including those of course registration, first and the last days of classes, examinations and vacation are published in the Academic Schedule every year. The Academic Schedule for each year shall be available in the Institution website.

9. SUPPORT SYSTEMS FOR STUDENTS

9.1 Mentoring

To help students plan their courses of study and provide general advice on the academic programme, the Head of the Department shall assign a certain number of students to a faculty member of the Department, who shall function as the Mentor for those students throughout their period of study. The Mentor shall advise the students on course registration and re-registration, monitor their attendance and progress, and counsel them periodically. If necessary, the Mentor may also discuss or communicate the progress/performance of the students concerned *to* their parents.

The responsibilities of the Mentor shall include, but not be limited to, the following:

i) To inform the students about the facilities and activities available in order to enhance their curricular and co-curricular activities

ii) To guide students in the enrolment and registration of courses.

iii) To authorize the final registration of the courses at the beginning of each semester

iv) To monitor the academic and general performance including attendance

v) To collect and maintain the academic and co-curricular records

9.2 Class Committee

Every class shall have a Class Committee consisting of teachers of the class concerned, student representatives and a chairperson who is not handling the class. It is the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching learning process.

The Functions of the class committee include:

I Addressing problems experienced by students in classrooms and laboratories

II Clarifying the regulations of the programme and details of rules therein

III Analyzing students' performance after each Continuous Assessment Test and identifying strategies to enhance their academic progress

IV Identifying slow learners and requesting the teachers concerned to provide some additional guidance

V The class committee for a class is constituted by the Head of the Department. However, if the students of different branches are grouped in a class, the class committee is to be constituted by the Head, Centre for Academic Courses.

VI The Class Committee shall be constituted within the first week of each semester.

VII At least four student representatives (two boys and two girls) shall be included in the Class Committee.

VIII The Chairperson of the Class Committee shall invite the mentor(s) to the meeting.

IX The first meeting of the Class Committee shall be conducted within one week from the commencement of the semester, with the agenda shared in advance with all members. Two or three subsequent meetings may be scheduled at appropriate intervals during the semester. At the end of each meeting, the Chairperson shall display the cumulative attendance of each student on the Notice Board, enabling students to monitor their attendance in accordance with Clause 11 of these Regulations. During these meetings, student representatives are expected to actively participate and convey the views and suggestions of their classmates to enhance the effectiveness of the teaching-learning process.

X The chairperson shall prepare the minutes of each meeting, submit them to the Head, Centre for Academic Courses within two days of the meeting and arrange for their circulation among the students and teachers concerned.

9.3 Course Committee

Each common theory course offered to more than one discipline or class, shall have a “Course Committee” comprising all the teachers handling the common course with one among them nominated as Course Coordinator. Nomination of the Course Coordinator shall be made by the Head, Centre for Academic Courses. The ‘Course Committee’ shall meet in order to arrive at a common scheme of assessment and evaluation for the tests and shall ensure the uniformity. A common question paper for the internal assessment test(s) shall be prepared by the Course Coordinator.

10. REGISTRATION OF COURSES

I. Course Registration is a procedural component of the academic system. It ensures that a student's name is officially recorded in each course they intend to study. Attendance will not be awarded for courses in which a student has not registered.

II. Every student is required to finalize the registration process through the web-based system during the specified time window, in consultation with the Mentor, if required.

III. The schedule for course registration will be intimated to the students through a common circular and / or through the Academic Schedule hosted on the website.

IV. The course registration/enrolment for the courses from semester II to VIII (and additional courses for Honors/Minor) will commence as per the Academic Calendar / Schedule published.

V. From semester II to VIII, the student can add/drop courses, up to 6 credits, within three working days from the start of the semester concerned.

VI. The maximum number of credits enrolled in a semester (excluding Honors/Minor/Re-registration) shall not exceed 30.

VII. The professional elective courses may be listed in the curriculum as verticals (specialized groups). A student can choose professional electives from any of the verticals offered in each semester by the department.

VIII. The student who opted for Honours /Minor shall enroll for the prescribed courses.

IX. For an elective course to be offered, the minimum number of students to be enrolled shall be 25, but self-study electives may be offered with no minimum limits for the number of students.

X. A student can register for MOOC courses based on the availability during the respective semesters, offered through SWAYAM / NPTEL.

11. ATTENDANCE CRITERION

11.1 A student is expected to maintain 100% attendance in all courses. The attendance requirement is calculated based on the required hours (L-T-P-J) specified in the curriculum as follows:

$$\% \text{ of attendance} = \frac{\text{Actual No. of Classes attended}}{\text{Total No. of Classes conducted}} \times 100$$

The student shall be permitted to appear in the End Semester Examinations, if the Overall attendance is 80% and above.

11.2 In cases of medical or other exceptional circumstances in which a student is unable to attend classes, a valid Medical Certificate must be submitted to the Head of the Department concerned within five days of resuming classes. If a student fails to meet the required 80% attendance but has attained at least 70%,

the submitted Medical Certificate may be considered, subject to the approval of the respective Head of the Department. A candidate can avail this provision only twice during the entire duration of the degree programme.

11.3 The student shall be prevented from appearing for the End Semester Examination, if the Overall attendance is less than 70% and shall not be permitted to attend the courses of subsequent semester. In such case, the readmission will be governed, as per the norms of DoTE / University.

11.4 The list of students prevented from writing the end semester examination(s) shall be published within TWO working days from the last day of the semester.

12. WITHDRAWAL FROM END SEMESTER EXAMINATION

i. i. A student may be granted permission to withdraw from appearing for the ESE in a course or courses in ANY ONE of the semester examinations during the entire duration of the degree programme.

ii. ii. The application shall be sent to the Controller of Examinations through the Head of the Department and Head, Centre for Academic Courses.

iii. iii. Withdrawal application shall be valid only if the student is otherwise eligible to write the examination with the attendance requirements as mentioned and calculated above.

iv. iv. A student shall be eligible to apply for withdrawal from the End Semester Examination in a course or courses only if he/she has no history of arrears in any of the preceding semesters.

v. v. If a student withdraws a course or courses from the End Semester Examinations, he/she shall register the same in the subsequent End semester examinations.

vi. vi. Withdrawal shall not be considered as an appearance for deciding the eligibility of a student for First Class with Distinction.

13. BREAK OF STUDY

13.1 Students shall be permitted to avail ONE ‘Break of Study’ for a period of ONE year (Two consecutive semesters) or one Semester, in the entire four years of the programme. However, Break of Study shall also be granted for the above-said Bonafide reasons, for a period of SIX months (One semester) to the students who have already completed up to VII semester of the programme.

The student shall apply for Break of Study to the respective Head of the Department through email / letter, which in turn shall be forwarded to the Controller of Examinations through Head Centre for Academic Courses. Break of Study will not be accepted after the generation of 'Prevention list.' Maximum Duration of the Programme, is as given in Clause 6.2 includes the period of above approved Break of Study.

13.2 Students who are granted a 'Break of Study', shall be permitted to appear for the End Semester Arrear Examinations for backlog courses, if any, during the period of Break of Study.

14. RE-JOINING THE PROGRAMME

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, Centre for Academic Courses, for this purpose. Recommendations of this committee, with the approval of the respective Head of the department, shall be sent to the Head, Centre for Academic Courses, for further action.

15. TERMINATION

15.1 A student who is not able to complete the requirements for the award of degree, within the maximum permissible duration prescribed, will deem to be automatically terminated from the programme.

15.2 Students faced with disciplinary action for any serious offence(s) may face premature termination from the programme, based on the recommendations of the disciplinary committee.

16. TEACHING & EVALUATION

16.1 The courses to be offered are decided by the Department concerned, taking into consideration all the requirements of the Programme. Each course is

conducted by a Course Instructor and the Course Instructor has the overall responsibility for successful conduct of class work

16.2 Performance assessment of the student is conducted through continuous assessments and end semester examinations, as mentioned in this regulation for all the registered courses.

16.3 **For 'Theory 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%. Details of Weightage for Continuous Assessment & End-Semester Examination are presented in Table 2, Sl.No.1.

16.4 **For 'Theory with Laboratory/ Theory with Project 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%. Details of weightage for theory and practical / project component with respect to credits are presented in Table 2, Sl.No.2 to 6.

16.5 **For 'Laboratory/ Laboratory with Project 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%. Details of Weightage for Continuous Assessment & End-Semester Examination are presented in Table 2, Sl. No.7 & 8.

16.6 **For 'Project Work'**, a student or a group of students (not exceeding three), shall work on a topic of interest, under a faculty, who shall be the Supervisor. Student(s) shall submit a report and defend it in front of a panel of examiners, upon which the final grade is awarded. Project reviews shall be conducted by a committee constituted by the respective Head of the Department, comprising the Guide(s), one External Subject Expert and one internal subject expert.

Details of Weightage for Continuous Assessment & End-Semester Examination for Project Work are presented in Table 2, Sl.No.9

16.7 **For 'Internship / Industrial Training',** a student shall undergo Internship / Industrial Training' for a period as stipulated in the respective curriculum of the Programme. After completion of the Internship / Training student shall submit a

report, describing the observations, skills acquired, usefulness, etc., along with the attendance certificate issued by the industry concerned. Evaluation shall be done by the committee comprising of three faculty members constituted by the respective Head of the Department. Details of Weightage for Continuous Assessment of Internship / Industrial Training are presented in Table 2, Sl.No.10.

16.8 For Industry Oriented Courses

The students may optionally undergo Industry Oriented Courses. The details of the course shall be recommended by the Department Consultative Committee and approved by Head, Centre for Academic Courses. Students can earn a maximum of six credits during the entire duration of the Programme. If the student earns three credits in Industry Oriented Courses, the student may seek course exemption against Professional Elective**.** Otherwise, credits earned by the students will be indicated in the semester grade sheet as well as in the consolidated grade sheet as additional credits. In such case, these additional credits will not be considered for GPA/CGPA calculations. A committee consisting of the Head of the Department, coordinator of the course and a senior faculty member nominated by the Head of the Institution shall monitor the evaluation process.

16.9 **For Online Courses**, Students may be permitted to earn a maximum of six credits with the approval of Head of the Department and Centre for Academic Courses, in lieu of professional elective courses. The Head, Centre for Academic Courses shall form a three-member committee consisting of HOD, a faculty member from the Department of student and HOD of any other branch of the Institution to ensure that the student has not studied such course and would not repeat it again as professional core/professional elective. Students shall opt for the courses offered by SWAYAM / NPTEL, State / Central funded Institutions **OR** Research Laboratories, within top 50 positions in NIRF ranking **OR** Foreign Universities within QS 300 rankings **OR** list of EduTech firms approved by the Institution, from time to time.

The details regarding online courses taken up by the student and the marks/credits earned should be sent to the Controller of Examinations in the subsequent semester(s) along with the details of the professional elective to be

waived. Otherwise, credits earned by the students will be indicated in the semester grade sheet as well as in the consolidated grade sheet as additional credits. In such case these additional credits will not be considered for GPA/CGPA calculations.

16.10 **For Interdisciplinary / Liberal Arts Courses,** Students may be permitted to earn a maximum of three credits with the approval of Head of the Department and Centre for Academic Courses, in lieu of Open elective course. Students shall opt for the courses offered by SWAYAM / NPTEL approved by the Institution, from time to time.

The details regarding Liberal arts courses taken up by the student and the marks/credits earned should be sent to the Controller of Examinations in the subsequent semester(s) along with the details of the Open elective to be waived. Otherwise, credits earned by the students will be indicated in the semester grade sheet as well as in the consolidated grade sheet as additional credits. In such case these additional credits will not be considered for GPA/CGPA calculations.

16.11 **National / International Professional Body Certification Courses**

Students may optionally undergo National/International professional certification courses and if a student successfully completes the course 3 credits may be allotted with prior approval from the Head - Centre for Academic Courses. If the student earns three credits, the student may drop one Professional Elective.

Otherwise, the credits earned by the student will be indicated in the semester grade sheet and in the consolidated grade sheet as additional credits. These additional credits will not be considered for GPA/CGPA calculations.

16.12 **Mandatory Credit courses (MCC)**

i) Professional Skill Development courses

As part of the Outcome-Based Education (OBE) framework, AICTE guidelines, and industry expectations, all undergraduate students shall participate in the STRIDE (Skill Training, Resume Impact, and Development for Excellence) Programme throughout their period of study, titled Professional Skills Development – I to VII, from Semester I to Semester VII.

STRIDE is a mandatory credit-based graduation requirement intended to promote and recognize students' engagement in professional development activities beyond the regular curriculum, including research, innovation, entrepreneurship, leadership, internships, community engagement, certifications, projects, and lifelong learning.

Students shall participate in institution-approved STRIDE activities and earn the prescribed STRIDE credits/points as notified by the Institution from time to time. They shall maintain valid documentary evidence for all activities undertaken. The submitted records shall be verified by the concerned Chief Mentor(s) and the STRIDE Review Committee.

The performance of students shall be evaluated at the end of each semester based on the approved STRIDE activities. Successful completion of the prescribed STRIDE requirements shall be mandatory for the award of the degree.

ii) For other Mandatory Credit courses (MCC), Evaluation shall be only through continuous assessments by the Course Instructor, with equal weightage of the marks obtained in two assessments.

These credits will not be considered for GPA/CGPA calculations.

16.13 **For Mandatory Non - Credit courses (MNC)**, Evaluation shall be only through continuous assessments by the Course Instructor. Upon completion of the course, it will be indicated in the semester grade sheet and in the consolidated grade sheet.

16.14 **Self-study Course:** Students are permitted to design one 3-credit course of their interest, relevant to their domain. In such cases, a faculty coordinator will be assigned to guide the course. If a student successfully completes the course, they may seek exemption from a Professional Elective.

Otherwise, the credits earned will be indicated in the semester grade sheet as well as in the consolidated grade sheet as additional credits. In such cases, these additional credits will not be considered for GPA/CGPA calculations. Evaluation for these courses will be based on Clause 16.3 or 16.4.

16.15 In summary, the Break-up of Assessment Mark components for various categories of courses is given in Table 2.

Table 2: Break-up of Assessment Mark components

S. No	Course Type	Marks Breakup							
		Continuous Assessments (Figures inside the brackets indicate total marks)					End Semester Examinations		
		Theory			Practical / Project		Theory	Practical / Project	
		CIAT 1	CIAT 2	Activities	Evaluation of Student's work, Observation, Record, etc., / Review for Project presentation	Lab Test		Test / Report Evaluation	Presentation & Viva
1	**Theory Courses** L – T – P – J – C 2 – 0 – 0 – 0 – 2 3 – 0 – 0 – 0 – 3 3 – 1 – 0 – 0 – 4 4 – 0 – 0 – 0 – 4	40%					60%		
		16(60)	16(60)	8(40)			60(100)		
	Theory with Laboratory / Theory with Project (L – T – P – J – C)								
2	Type 1 1 – 0 – 2 – 0 – 2 1 – 0 – 0 – 2 – 2	25%			25 %			50%	
		10(30)	10(30)	5(40)	15(75)	10(25)		40(80)	10(20)
3	Type 2 1 – 0 – 4 – 0 – 3 1 – 0 – 0 – 4 – 3	15 %			35 %			50%	
		5(30)	5(30)	5(40)	25(75)	10(25)		40(80)	10(20)
4	Type 3 2 – 0 – 2 – 0 – 3 2 – 0 – 0 – 2– 3	35 %			15 %		50%		
		15(60)	15(60)	5(40)	10(75)	5(25)	50(100)		
5	Type 4 3 – 0 – 2 – 0 – 4 3 – 0 – 0 – 2 – 4	35 %			15 %		50%		
		15(60)	15(60)	5(40)	10(75)	5(25)	50(100)		
6	Type 5 2 – 0 – 4 – 0 – 4 2 – 0 – 0 – 4 – 4	25 %			25 %		25%	25%	
		10(60)	10(60)	5(40)	15(75)	10(25)	25(100)	20(80)	5(20)
7	Laboratory Course 0 – 0 – 2 – 0 – 1 0 – 0 – 4 – 0 – 2				60 %			40%	
					45(100)	15(100)		30(80)	10 (20)

8	Lab with Project 0 – 0 – 2 – 2 – 2				30% Lab Observation & Record -75 Lab Test- 25	30% Review 1 – 15 Review 2 – 25 Review 3 – 60		40% 40(100)	
9	Project Work				60% Review 1 – 10 (100) Review 2 – 20 (100) Review 3 – 30 (100)			40 % Report Evaluation – 10(50) External – 10(50)	Viva-Voce Internal –10(50) External – 10(50)
10	Internship / Industrial Training (2 Credits)	100%							
					Report 40 (100) Presentation 30 (100) Viva-Voce 30 (100)				
11	Tamil Courses (1 Credit)	100%							
		50(50)	50(50)						
12	Industry Oriented Courses (1 Credit)	100%							
		An appropriate assessment style as decided by the Industry Expert shall be made with BoS Approval							
13	Mandatory Credit Courses (1/2/3 Credits)	100%							
	Professional Skill Development Courses	100 (100)							
	Other Mandatory Credit Courses	50(50)	50(50)						
14	Mandatory Non-Credit Courses	100%							
		100(100)							

17 ADDITIONAL LEARNING

National Cadet Corps (NCC) / National Sports Organization (NSO) / National Service Scheme (NSS) / Youth Red Cross (YRC)' / Technical Club Houses (TCH) / Cultural Club Houses (CCH), is a mandatory requirement during the first year of the programme

i) Students who secure prize-winning positions (Top 3) through participation in events organized by reputed institutions, organizations or industries are eligible for the following credit allocation:

- 1 Credit for achievements at the State or National level, organized by institutions ranked within the Top 100 in NIRF.
- 2 Credits for achievements at the international level, conducted by institutions ranked within the Top 300 in the QS World University Rankings.

However, the credits earned shall not be considered for the computation of GPA/CGPA.

ii) To enhance students' technical knowledge and problem-solving skills for placements as well as higher education, the Institution shall conduct Internal GATE Assessments to encourage students to prepare for the Graduate Aptitude Test in Engineering (GATE).

Students who participate in the Internal GATE Assessment shall be awarded a maximum of 30 Additional Learning Marks per semester based on their performance. These marks shall be distributed among more than one course identified by the respective Department and may be added to the Continuous Internal Assessment marks of the identified courses, subject to the approval of the Head of the Institution. However, the total Continuous Internal Assessment marks awarded for any course shall not exceed the maximum marks prescribed under the applicable Regulations

18 PASSING CRITERIA IN A COURSE

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

For Theory, Theory with Laboratory, Theory with Project, Laboratory and Laboratory with Project course, a student shall secure a minimum 45% of

marks in the end semester examination and obtain a minimum 50% marks in total combining both Continuous assessments and End Semester Examination.

For Project Work, a student shall secure a minimum 45% of marks in the End semester examination (Project report evaluation & Viva-Voce examination) and obtain a minimum of 50% marks in total combining both Continuous assessments and End semester examination (Project report evaluation & Viva-Voce examination).

For Internship / Industrial Training, the student shall secure a minimum of 50% marks in the continuous assessments.

For Industry Oriented Courses, a student shall secure a minimum of 50% marks in continuous assessments.

For Liberal Arts Course, a student shall secure a minimum of 50% marks, as per the evaluation processes.

For Mandatory Credit courses (MCC)and Mandatory Non-credit courses (MNC), a student shall secure a minimum of 50% marks, as per the evaluation processes.

18.2 If a student fails to secure a PASS in a Theory, Theory with Laboratory, Theory with Project, Laboratory and Laboratory with Project course (except electives), the student shall register and appear only for the End Semester Examination in the subsequent semester or whenever announced. In such case, the internal assessment marks obtained by the student in the regular appearance (Regular Registration) shall be retained and considered valid for first arrear appearance only as per clause 18.1. However, from the second arrear appearance onwards, the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the end semester examinations alone.

18.3 If the course in which the student has failed, is a professional elective or an open elective, the student may be permitted to complete the same course. In such case the internal assessment marks obtained by the student in the regular appearance (Regular Registration) shall be retained and considered valid for first arrear appearance only as per clause 18.1. However, from the second arrear appearance, the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the end semester

examinations alone. However, one can opt for a new professional elective or an open elective

course and shall earn the internal marks by attending the classes and completing the relevant assessments.

18.4 If a student is absent during the viva - voce examination in the case of Project Work, it would be considered as fail. If a student fails to secure a PASS in Project work, the student shall register for the course again.

19 PUBLICATION OF RESULTS & EXAMINATION WRAPPER AND REVALUATION

i) Publication of examination results shall be within 15 working days from the date of completion of regular End Semester Examinations of a particular programme.

ii) One week after the publication of the results, there shall be an examination wrapper day for the Theory Courses. On this day, students who wish to do so may review their End Semester Examination answer scripts in the presence of the Course Instructors and seek clarifications.

20 B.E./B.TECH DEGREE WITH HONOURS/ MINORSPECIALIZATION

B.E/B.Tech. (Hons.) or B.E./B.Tech. Minor shall be offered by the Department irrespective of the number of students enrolled. The student has to enrol for these additional courses separately and pay prescribed course fee and exam fee. A student shall earn an additional 18 credits over and above the programme requirements within the curriculum. However, out of the 18 credits, a maximum of 6 credits maybe earned through online mode from SWAYAM-NPTEL platform, as approved by respective BoS of the offering department.

20.1 B.E. / B. TECH. (HONOURS)

A student shall be permitted to register for the courses from 5thsemester onwards provided the student continues to maintain a CGPA of 7.50 and above throughout their course of study and clear all the courses in the first attempt.

20.1.1 Six Elective Courses for ‘HONOURS’ Degree

i) Students shall opt for ‘Honours’ Degree by undergoing ‘SIX’ additional elective courses from the Honours vertical as listed in the respective curriculum. The student has to earn 18 additional credits through the courses, which are related to the major discipline of study.

ii) On successful completion of six elective courses, 'HONOURS' shall be conferred to the students, who secure a CGPA of 8.50 or higher, without any history of arrears. If the student after successful completion of 'SIX' courses secures less than 8.50 CGPA, 'HONOURS' degree shall not be conferred.

iii) If the student decides to opt out of Honours Degree, after successful completion of certain number of courses, 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 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

20.1.2 Capstone Design Project for 'HONOURS' Degree

i) Capstone Design project provides an opportunity to work in a team to design and develop a product, focusing to evolve solutions for real-time problems, starting from Problem definition, Specification formulation within given constraints, Review of design process and design ideation, Human factors, Market research, Product and patent research, fabrication considerations, Safety and risk assessment, Liability and ethics, Environmental and sustainability considerations, Proof-of-concept methods, Codes and Standards, etc. and finally to test prototype(s).

ii) A group comprising of 4 to 6 students, spread over minimum of two departments and maximum of three departments, shall opt for Capstone Design Project in 'THREE PHASES' from V to VII semester, in addition to the courses as prescribed in the curriculum. It is mandatory that students from at least TWO departments shall be a part of the project group and the number of students from each department shall be at least TWO.

iii) A Mentor shall be identified by the students from any one of the participating Department and Head of the Department of the Mentor's Department shall constitute a Project Review Committee (PRC) consisting of Mentor, one faculty members from the department of the

students (other than the Mentor's Department) in the group and one expert from industry in the relevant field. Student shall also identify Co-Mentor(s) from the participating department(s).

iv) During the Capstone Design Project, the student groups are encouraged to participate in events such as Hackathon, Industrial Expo to showcase and pitch their inventions.

v) Evaluation of Capstone Design Project is by continuous assessment (Three periodical reviews) in each semester by the PRC and Viva-voce examination at the end of each semester. Viva-Voce examination shall be conducted with panel of Internal examiners (PRC) and ONE external examiner. Weightage for Continuous assessment is 60% and for project report evaluation along with Viva-voce examination is 40%

vi) Every student in the group shall secure a minimum 45% of marks in Project report evaluation & viva-voce examination and also obtain a 50% of total marks in the Continuous assessments + (Project report evaluation & viva-voce examination) for getting 'PASS' in the particular phase of Capstone Design Project. Upon successful completion of the particular phase, the students shall be allowed to proceed to the next phase. In case, if any student in the group is not able to secure 'PASS' as prescribed above, the student shall discontinue from the Capstone Design Project and shall not associate with the Capstone Design Project furthermore.

vii) After earning 18 credits through the successful completion of the Capstone Design Project (CDP), 'HONOURS' shall be conferred along with 'Certificate of Appreciation' to the students in this group, who secure 8.50 or higher CGPA, without any history of arrears. If the student in the group, after successful completion of Capstone Design Project secures less than 8.50 CGPA, 'HONOURS' degree shall not be conferred.

However, the result of Capstone Design Project shall feature in the Grade sheet and a 'Certificate of Appreciation' shall be issued to those students.

20.2 B.E. / B. TECH. MINOR WITH SPECIALIZATION IN ANOTHER DISCIPLINE

A student shall be permitted to register the courses from 5thsemester onwards provided student continues to maintain a CGPA of 7.50 and above throughout

their course of study. The student should have earned additionally a minimum of 18 credits in any one of the verticals offered from other Engineering Disciplines/Science and Humanities/Management.

i) If a student decides not to opt for Minor, after completing a certain number of courses, the additional courses studied shall be considered in place of Open Elective courses, if applicable and remaining courses shall be printed on the grade sheet as additional courses and not be considered for calculation of CGPA.

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

21 LETTER GRADES AND GRADING POLICY

21.1 Grading of Course

The grades and the corresponding grade points are given in Table 3**.**

Table 3: Grading of Course - Letter Grades

Grade	Description	Grade Points
S	**Outstanding** performance with respect to course learning objectives; exhibits original and creative thinking, and demonstrates the ability to analyze critically and synthesize information	10
A+	**Excellent** performance with respect to course learning Objectives and creative thinking	9
A	**Very Good** achievement with respect to course learning Objectives	8
B+	**Good** achievement with respect to course learning Objectives	7
B	**Above Average** achievement with respect to course Learning objectives	6.5
C+	**Average** achievement with respect to course learning Objectives	6
C	**Satisfactory** achievement	5
U	**Re-appearance**	0
SA	**Shortage of Attendance**	0
WC	**Withdrawal of Course**	0

21.2 ABSOLUTE GRADING:

Absolute grading system shall be followed for all category of courses. Range of marks for corresponding grades is presented in Table 4. Grades obtained in Mandatory Credit and Mandatory Non-Credit Courses shall not be included in the calculation of GPA/CGPA.

Table 4: Absolute Grading – Range of Marks for Grades

S	A+	A	B+	B	C+	C	U
91– 100	81–90	71–80	66– 70	61– 65	56 – 60	50– 55	<50

The grades S, A+, A, B+, B, C+ and C obtained for Industry Oriented Courses, Liberal Arts Courses and Online courses (MOOC) shall figure in the grade sheets. The other grades U and SA will not figure in the grade sheet for such a course.

For courses completed through the **SWAYAM–NPTEL** platform only, a multiplication factor of **1.25** shall be applied to the marks obtained by the student for the purpose of grade award

22 GRADE SHEET

After declaration of the results, Grade Sheets will be issued to each student. The Grade Sheet shall contain the following details:

(a) List of courses completed under Honours, Minor and any other additional courses in which the student has passed with the grades under the title Additional Courses.

(b) The Grade Point Average (GPA) for the semester shall be calculated considering only the courses prescribed in the curriculum (not the additional courses)

(c) The Cumulative Grade Point Average (CGPA) shall be computed based on all the courses prescribed in the curriculum and registered from the first semester onwards, excluding additional courses. However, for students who have successfully fulfilled the requirements of B.E. / B.Tech. (Honours) and B.E. / B.Tech. (Minor) as per Clause 20, the grades obtained in the six additional courses shall also be considered for the computation of CGPA.

During each semester, the Grade Point Average (GPA) shall be computed using the list of curricular courses registered for that semester (excluding additional courses), along with the grades obtained in each of those courses.

The Grade Point Average (GPA) for a semester is calculated as ratio of the sum of products of the credits assigned to each course and the corresponding grade points earned, to the sum of the credits for all the courses registered in that semester.

CGPA will be calculated in a similar manner, considering all the courses registered from first semester for Regular students and third semester for Lateral Entry students. U grades will be excluded for calculating GPA and CGPA.

$$\text{GPA / CGPA} = \frac{\sum_{i=1}^{n} C_i GP_i}{\sum_{i=1}^{n} C_i}$$

where

C_i is the number of Credits assigned to the course

GP_i is the point corresponding to the grade obtained for each course

n is number of all courses successfully cleared in the particular semester in case of GPA and during all the semesters in case of CGPA.

The percentage of marks shall be printed in the consolidated grade sheet from the CGPA earned using, % of Marks = CGPA × 10

23 ELIGIBILITY FOR AWARD OF THE DEGREE

A student shall be declared to be eligible for award of the B.E. / B.Tech. Degree provided the student has

i) Successfully completed all the semesters, registering required courses, gained required number of credits as specified in the curriculum corresponding to the programme within the stipulated time

ii) No disciplinary action pending against the student

24 CLASSIFICATION OF DEGREE

The awarding of degrees to eligible students shall be in accordance with the criteria prescribed by the University. The current criteria and classification for the award of degrees are as follows:

24.1 FIRST CLASS WITH DISTINCTION

A student who satisfies the following conditions shall be declared to have passed the examination in First Class with Distinction (refer table 5).

24.2 FIRST CLASS

A student who satisfies the following conditions shall be declared to have passed the examination in First Class (refer the table 6).

24.3 SECOND CLASS

Students pursuing B.E./B.Tech. under Regular Mode, Lateral Entry Mode, or with a Minor Specialisation in another discipline, and who are not covered under the classifications specified in Table 5 and Table 6, shall be declared to have passed the examination in Second Class.

Table 5: Classification for the award of the B.E/ B. Tech. degree in First class with Distinction

Programme Category	Programme Duration	Maximum Duration	Additional Credits	Minimum CGPA	Pass Requirement	Break of Study	ESE Prevention	ESE Withdrawal
Regular	4 years	5 years	-	8.50	First attempt	1-year	Not permitted	Will not be considered as an attempt
Lateral Entry	3 years	4 years	-	8.50				
Honours	3/4 years (Lateral entry, Regular respectively)	4/5 years (Lateral entry, Regular respectively)	18 credits from any of the verticals of same Programme	8.50				
Minor	3/4 years (Lateral entry, Regular respectively)	4/5 years (Lateral entry, Regular respectively)	18 credits from any one vertical of other Programme	8.50				

Table 6: Classification for the award of the B.E/ B. Tech. degree with First class

Programme Category	Programme Duration	Maximum Duration	Additional Credits	Minimum CGPA	Pass Requirement	Break of Study	ESE Prevention	ESE Withdrawal
Regular	4 years	5 years	-	6.50	-	1-year	Included in the duration permitted	Will not be considered as an attempt
Lateral Entry	3 years	4 years	-	6.50				
Minor	3/4 years (Lateral entry, Regular respectively)	4/5 years (Lateral entry, Regular respectively)	18 credits from any one vertical of other programme	6.50				

25 ACADEMIC AUDIT

The Head, Centre for Academic Courses shall initiate the academic audit process twice a year, with the coordination of the Head of the Departments, by inviting external expert(s) approved by the Head of the Institution. Academic audit shall cover (not limited to)

- Adherence to the academic schedule, course plan, coverage, quality of question papers, maintenance of laboratory experimental set ups, assignments and conduct of practical classes
- Co-curricular and Extra-curricular Activities Available to Students and the Mechanism for Monitoring Activity Points
- The quality criteria prescribed by statutory / Institute bodies
- Based on the audit report, an Action Taken Report shall be presented by the Head of the Department to the Internal Quality Assurance Cell (IQAC) of the Institution, as part of the continuous improvement process
- The academic records of students and documents related to Undergraduate programmes of a particular batch shall be retained in the respective department for a period of one year following the completion of the programme duration

26 DISCIPLINE

Every student is expected to follow the rules and regulations laid down by the Institution, affiliating University and the Government, as published from time to time. Any violation shall be dealt with in accordance with the procedures prescribed therein. If a student indulges in malpractice in any of the Semester Examinations / Continuous Assessments, he / she shall be liable for punitive action as prescribed by the Institution / University from time to time.

27 REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The Institution reserves the right to revise/amend/change the Regulations, Curriculum, Syllabi, Scheme of Examinations and date of implementation through the Academic Council and to introduce additional Courses through the respective Board of Studies.

The following revisions were made to the Regulations 2025 based on the 14th Academic Council Meetings:

Insertion of New Clause 20.1.2
Amendment of Clause 11, 16.12, 16.15, 17, 21.1, 21.2., 12.

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