

**SREE SAKTHI ENGINEERING COLLEGE
COIMBATORE – 641 104**

REGULATIONS 2024

AN AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI

CHOICE BASED CREDIT SYSTEM

Common to all B. E. / B. Tech. Full-time Programme

DEGREE OF BACHELOR OF ENGINEERING / BACHELOR OF TECHNOLOGY

As per the guidelines given by the University Grants Commission, All India Council for Technical Education and Affiliating University (Anna University - Chennai), Regulations 2024 have been prepared integrating the features of the Choice Based Credit System (CBCS). The Regulation 2024 is applicable to all the candidates of Bachelor of Engineering (B. E.) / Bachelor of Technology (B. Tech.) Degree Programme of the Institution from the academic year 2024 – 2025 onwards.

Note: The regulations, curriculum, syllabus and scheme of examinations are subjected to amendments as may be decided by the Academic Council of the Institution from time to time. Any or all such amendments will be effective from respective date and to such batches of students as may be decided by the Academic Council.

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In this Regulation,

- a) **“Programme”** means Degree Programme that is B.E. / B.Tech. Degree Programme;
- b) **“Discipline”** means Branch or Specialization of B.E. / B.Tech. Degree Programme like Computer Science and Engineering, Mechanical Engineering, Information Technology, etc;
- c) **“Course”** means a theory or practical subject that is normally studied in a semester like Mathematics, Physics, Engineering Graphics, etc;
- d) **“Head of the Institution”** means the Principal of the Institution;
- e) **“Head of the Department”** means the head of the concerned department;
- f) **“Controller of Examinations”** means the authority of the Institution who is responsible for all matters pertaining to Autonomous Examinations;
- g) **“University”** means Anna University, Chennai.

2. ADMISSION PROCEDURE

2.1 Regular Entry Admission

Candidates seeking admission to the first semester of the eight semesters B. E. / B. Tech. Degree Programme:

- i. Should have passed the Higher Secondary Examinations of (10+2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III or any examination of any other University or any equivalent examination accepted by competent authority.

(OR)

- ii. Should have passed the Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu. They should also satisfy other eligibility conditions as prescribed by the Anna University, Chennai and Directorate of Technical Education, Chennai from time to time.

2.2 Lateral Entry Admission

- i. The candidates who possess the Diploma in Engineering / Technology awarded by the State Board 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. in relevant branches of study, in their diploma.

(OR)

- ii. The candidates who possess the Degree in 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. Such candidates shall undergo two additional Engineering course(s) in the third and fourth semester as prescribed by the examination committee. They should satisfy other eligibility conditions prescribed by the Anna University, Chennai and Directorate of Technical Education, Chennai from time to time.

3. ACADEMIC PROGRAMMES

3.1 Nomenclature

The nomenclature and the abbreviations given below shall continue to be used for the degree programmes:

- i. Bachelor of Engineering (B. E.) and
- ii. Bachelor of Technology (B. Tech.)

3.2 Bachelor of Engineering (B. E.) Degree Programmes Offered

- a) B. E. Civil Engineering
- b) B. E. Computer Science and Engineering
- c) B. E. Computer Science and Engineering (Artificial Intelligence and Machine Learning)
- d) B. E. Computer Science and Engineering (Cyber Security)
- e) B. E. Electrical and Electronics Engineering
- f) B. E. Electronics and Communication Engineering
- g) B. E. Mechanical Engineering

3.3 Bachelor of Technology (B. Tech.) Degree Programmes Offered

- a) B. Tech. Artificial Intelligence and Data Science
- b) B. Tech. Information Technology

4. STRUCTURE OF PROGRAMMES

4.1 Categorization of Courses

Each programme (B. E. / B. Tech.) shall comprise a curriculum with syllabi consisting of Theory (T), Theory-cum-Practical (TP) and Practical (P) courses. The contents of each course are designed based on the specified Course Outcome(s). The courses of a programme shall be categorized as follows:

Title	Category	Courses
FOUNDATION COURSES	Humanities, Social Sciences and Management Courses (HSMC)	Professional English, Tamil, Management Studies & Ethics etc.,
	Basic Science Courses (BSC)	Mathematics, Physics, Chemistry, Environmental Science etc.,
	Engineering Science Courses (ESC)	Engineering Practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering etc.,

CORE COURSES	Professional Core Courses (PCC)	Courses relevant to the chosen specialization / branch
	Professional Elective Courses (PEC)	Elective courses relevant to the chosen specialization / branch
	Open Elective Courses (OEC)	Courses offered by a branch to other branches
	Employability Enhancement Courses (EEC)	Mini Project, Soft-skills and Project Work
	Mandatory Courses (MC)	Summer Internship, Constitution of India, Industrial safety etc.,

Table 1. Categorization of Courses

4.2 Induction Programme

- Induction Programme is mandatory for the students pursuing the Undergraduate Programme
- List of students who have successfully completed the Induction Programme shall be certified by the Head of the Institution. The completion of the Induction Programme shall be printed in the grade sheet as “**Completed**”
- In the case of students admitted later and those who have not attended the Induction Programme at the time of joining the degree programme, it shall be conducted later and on completion, it shall be recorded in the grade sheet
- No fee will be charged towards the conduct of the Induction Programme and for inclusion in the STATEMENT OF GRADES for the successful completion of the Induction Programme.

4.3 Personality and Character Development

All students shall enroll, on admission, in any one of the personality and character development programmes such as NCC / NSS / NSO / YRC and undergo training / conduct activities for about 80 hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid. Alternately, activities of science, literature and arts also help for personality and character development. So, students shall conduct and participate actively in Science Club / Literary Forum / Fine Arts activities for 80 hours and participate in at least ONE event. **National Cadet Corps (NCC)** will have a number of parades / camps as specified by the NCC officer. **National Service Scheme (NSS)** will have social service activities in and around the Institution. **National Sports Organization (NSO)** will have sports, games, drills and physical exercises.

Youth Red Cross (YRC) will have activities related to social services in and around the College / Institution.

While the training activities will normally be during weekends, the camp will normally be during vacation period.

Science Club shall organize activities of popularization of science and scientific temper through activities related to astronomy, works of great scientists from India and abroad, observing National Science Day etc.

Literary Club like ‘Tamil Ilakkiya Mandram’ shall be formed, which shall organize colourful literary events to propagate good humanist values, morals and ethics reflected in the Literature.

Fine Arts Club like music, painting and documentary films with social themes shall be encouraged. Students who enroll and actively participate in any one of the above activities for 80 hours and participate in at least one event / programme will be given a certificate by the Head of the Institution and the copy of the same shall be forwarded to the Controller of Examinations for the purpose of record and scrutiny.

4.4 Number of Courses per Semester

Each semester curriculum shall normally have a blend of lecture courses not exceeding **7** Theory courses and Laboratory integrated theory courses and **4** Employability Enhancement Course(s) and Laboratory Courses. However, the total number of courses per semester shall not exceed **10**.

The courses that a student registers in a particular semester may include

- I. Courses of the current semester.
- II. Courses advanced to Semester V, VI and VII from Semester VIII. The maximum number of credits that can be registered in a semester is 36. However, this does not include the number of Re-appearance (U) and Withdrawal (W) courses registered by the student for the appearance of Examination.

4.5 Credit Assignment

Each course is assigned certain number of credits based on the following:

Contact Period per Week	CREDIT(S)
1 Lecture Period (L)	1
1 Tutorial Period (T)	1
2 Practical Period (P)	1

Table 2. Credit Assignment

4.6 Industrial Training / Internship

The students may undergo Industrial training for a period as specified in the Curriculum during the summer / winter vacation. In this case, the training has to be undergone continuously for the prescribed period in the curriculum / as informed by the Head of the Institution.

The students may undergo Internship at a Research organization / University / Industry (after due approval from the Head of the Institution) for the period prescribed in the Curriculum during the summer / winter vacation, in lieu of Industrial Training. Attendance Certificate mentioning the period of Industrial Training / Internship duly signed by the competent authority of the industry, as per the prescribed format provided by institution shall be submitted to the Head of the Department.

4.7 Industrial Visit

Every student has to attend at least one Industrial Visit every year from the second year of the Programme. The Heads of Departments shall ensure that necessary arrangements are made in this regard.

4.8 Value Added Courses

The students should undergo Value Added Courses (VAC) over and above the topics covered in the curriculum to obtain practical and industry specific knowledge. The details of the syllabus, time table and course coordinator may be sent to the Head of the Institution at least one month before the course is offered for approval.

4.9 Online Courses

- a) Students can register and earn credits from online course during the fourth, fifth semester and sixth semester period, relevant to their programme approved by the Head of the Institution from time to time.
- b) A student can drop maximum of two courses in PE or OE category of V, VI, VII semester, if he/she successfully completes online course of equivalent credits (as mentioned in the certificate).
- c) The courses offered by SWAYAM, Ministry of Human Resource Development (MHRD) portal and NPTEL Courses are approved. Other online courses are to be approved by the respective Department Advisory Committee (DAC). Suitable Online courses relevant to PE/OE to be dropped shall be chosen from approved portal. Students who successfully complete 12-week Online course shall earn equivalent credits for courses in NPTEL, AICTE - SWAYAM etc. Alternatively, students who undergo 45 hours of any other approved online courses might be eligible to earn

equivalent credits and evaluation criteria for such courses shall be formulated by the concerned Department Advisory Committee (DAC).

- d) Department Advisory Committee (DAC) shall monitor the progress of the student and performance in the online course. On successful completion of the online courses, the student shall be exempted from two courses, either Professional or Open Elective as per the approval. Based on the marks obtained in the online course an equivalent grade will be awarded by the Office of Controller of Examinations.
- e) Students should get prior approval from the concerned Department Advisory Committee (DAC) for the credit transfer from online courses.
- f) Online courses relevant to the professional core courses of the same programme shall not be considered for credit transfer.
- g) For opting an Online course, repetition of the course / contents studied or to be studied in their four-year degree programme shall be avoided.
- h) Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of 18 credits to be earned for Honours and minor specialization as approved by Department Advisory Committee (DAC) from time to time.

Letter Grade	Marks Secured
O	90 - 100
A+	80 – 89
A	70 – 79
B+	60 – 69
B	50 – 59
C	40 - 49

Table 3. Grade Point for Marks Secured in Online Course

4.10 Flexibility to Advance Courses

The student shall undergo the eighth semester courses in the fifth, sixth or seventh semester.

- a) In a particular semester mentioned above, a student is permitted to register for two Elective courses (PE / OE) as advancement course subjected to a maximum of 36 credits with due approval from Head of the Institution through the Head of the Department.
- b) However, a student without standing arrear and a CGPA of 7.5 and above by the end of fourth semester is only eligible.
- c) The student shall register for the Project Work Phase II in eighth semester only. The students

satisfying the above conditions shall be permitted to carry out their final semester Project Work for six months in industry / research organizations, if they have successfully completed all their eighth semester theory courses as advancement course in their lower semesters as per the norms.

4.11 Flexibility to Add Credits

A student has to earn the total number of credits as specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree. However, if the student wishes, then the student is permitted to earn more than the total number of credits as prescribed in the curriculum of the student's programme in the Professional Elective (PE) or Open Elective (OE) category. For calculating the CGPA, the best out of the credits earned by the student will be taken in the PE and OE Category. Flexibility to add credits is not permitted in other category of courses.

4.12 Medium of Instruction

The medium of instruction is English for all courses, examinations, seminar presentation / project / thesis / dissertation reports. Tamil Courses in HSMC can alone be written in Tamil / English.

5 DURATION OF THE PROGRAMME

- a) A student is ordinarily expected to complete the B. E. / B. Tech. Programme in 8 semesters (for Regular students) and six semesters (for Lateral Entry students) but in any case, not more than 14 semesters for Regular (or equivalent) candidates and not more than 12 semesters for Lateral Entry candidates.
- b) Each semester shall normally consist of 75 working days or 540 periods of 50 minutes each. The Head of the Institution shall ensure that every teacher imparts instructions as per the number of periods specified in the syllabus, covering the full content of the syllabus for the course being taught.
- c) The end semester examinations will ordinarily follow immediately after the last working day of the semester as per the academic calendar prescribed from time to time as per announcements made by office of the Controller of Examinations.
- d) The total period for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 5. a), irrespective of the period of break of study in order that he / she may be eligible for the award of the degree.

6 COURSE REGISTRATION

- a) Each student, on admission shall be assigned to a Class Advisor (vide clause 8.1) who shall advise and counsel the student about the details of the academic programme and the choice of courses considering the student's academic background and career objectives,
- b) Every student has to register for the courses (he / she wishes to pursue in the current semester) within the stipulated time,
- c) On registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Internal Assessment marks and appear for the End Semester Examinations,
- d) The student shall also register for courses that he / she has failed in the earlier semesters,
- e) The courses that a student registers in a particular semester might include
 - i. Courses of the current semester
 - ii. Course(s) dropped in the lower semesters
 - iii. The core (Theory / Lab / EEC) courses that the student has not cleared in the previous semesters
 - iv. Mandatory Courses
 - v. Elective course(s) in which the student has failed (either the same elective or a different elective)
 - vi. Advancement Courses
 - vii. Honours and Minor Degree Courses

7 COLLABORATION WITH OVERSEAS UNIVERSITIES

- a) Students can travel to International Universities with the approval of Head of the Institution and the Controller of Examinations for Semester Abroad (courses / project / research) Programme. University Level Courses (ULC) equivalent to the courses in the institution are permitted for credit transfer. ULC should match with the courses in the specific programme of the institution satisfying AICTE / Anna University norms,
- b) Following are the eligibility conditions:
 - i. Successful completion of two years with a CGPA of 7.5 and above
 - ii. Secured a good score in TOEFL, SAT, IELTS etc.
- c) Semester Abroad Programme will be permitted for about 6 - 12 months duration only,
- d) The medium of instruction under Semester Abroad Programme must be in English only.

8 ACADEMIC SUPPORT

8.1 Class Advisor

There shall be a class advisor for each class. The class advisor will be one among the course-instructors of the class. He / She will be appointed by the Head of the concerned Department. The class advisor is the ex-officio member and the Convener of the class committee. The responsibilities for the class advisor shall be:

The responsibilities of the class advisor shall be,

- a) To act as the channel of communication between the Head of the Department and the students of the respective class,
- b) To collect and maintain various statistical details of students,
- c) To help the chairperson of the class committee in planning and conduct of the class committee meetings,
- d) To monitor the academic performance of the students including attendance and to inform the class committee,
- e) To attend to the student's welfare activities like scholarships, awards, industrial visits.

8.2 Mentor

In order to facilitate the student progress and welfare, the Head of the Department will allocate a fixed number of students to a teaching faculty of the department who shall function as mentor for them throughout their period of study. Each mentor will have a maximum of 20 students allotted to them.

The responsibilities of the mentor shall be:

- a) To disseminate the students about various facilities and activities available in order to enhance the student's curricular and co-curricular activities
- b) To guide student enrolment and registration of the courses
- c) To authorize the final registration of the courses at the beginning of each semester
- d) To monitor the academic and general performance of the students including attendance, counsel them accordingly and minute the same in record
- e) To collect and maintain the academic, co-curricular, medical records, disciplinary proceedings, if any
- f) To keep in track of their progress and notify the parents, whenever and wherever necessary

8.3 Class Committee

- a) Each class shall have a class committee consisting of course teachers of the class concerned, student

representatives and a chairperson, who is not handling the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching-learning process.

The responsibilities of the class committee include:

- i. Solving problems experienced by students in the class and in the laboratories
 - ii. Clarifying the regulations of the degree programme and the details of rules therein
 - iii. Informing the student representatives, the academic schedule including the date of assessments and the syllabus coverage for each assessment.
 - iv. Analyzing the performance of the students of the class after each assessment, analyze the findings and thereby increase the results
 - v. Identifying the slow-learners, if any, and requesting the course teachers concerned to assist or guide to enhance their performance
- b) The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class (like I years, which is common to all branches), the class committee is to be constituted by the Head of the Institution.
 - c) The class committee shall be constituted within the first week of each semester.
 - d) At least 4 student representatives (usually 2 boys and 2 girls) shall comprise a class committee, covering all the elective courses.
 - e) The chairperson of the class committee may invite the class advisor(s) and the Head of the Department to the class committee meeting.
 - f) The Head of the Institution may participate in any class committee meeting of the institution.
 - g) The chairperson is required to prepare the minutes of every meeting, submit the same to the Head of the Institution within two days of the meeting and circulate it to the students and faculties concerned. If there are notable discussions requiring action by the management, the same shall be brought to the notice of the Management by the Head of the Institution.
 - h) The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. **The Class Committee Chairperson shall display the cumulative attendance particulars of each student on the Notice Board at the end of every such meeting to enable the students to know their attendance details to satisfy the requirements.** During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

8.4 Course Committee for Common Courses

- a) Each common theory course offered to more than one discipline or group shall have a “course committee” comprising all the course faculty handling the common course with a senior nominated as Course Coordinator. The nomination of the Course Coordinator shall be recommended by the Head of the Department depending upon whether all the faculty handling the common course belong to a single department or to several departments.
- b) The course committee shall meet as often necessary and ensure uniform evaluation of the assessments through a common evaluation scheme. Wherever it is feasible, the course committee may also prepare a common question paper.

8.5 Department Advisory Committee

All departments shall constitute a Department Advisory Committee (DAC) consisting of the HoD as Chairperson and 10% of senior faculties.

The roles and responsibilities of the DAC is as follows:

- a) Study and suggest improvement in all the academic activities of the department.
- b) Suggest initiatives to enhance employability skill sets.
- c) To review and approve industries or other organizations identified for industrial training, internship or project work of students.
- d) Approve online/elective courses selected by students for the content and quality.
- e) Introduce best practices for the attainment of POs/PEOs
- f) Suggest the equivalence of courses (addition/deletion of courses) to be studied for the transfer students from different regulations.

9 SYSTEM OF EXAMINATION

- a) Performance in each course of study shall be evaluated based on
 - i) Continuous Internal Assessment (CIA) throughout the semester,
 - ii) End Semester Examination (ESE) at the end of the semester. A student has to register for all regular and arrear courses (if any) for appearing in the end semester examinations.
- b) The end semester examination of 3 hours duration shall be conducted for 100 marks as the maximum.
- c) For the end semester examinations in both theory and practical courses including project work, the internal and external examiners shall be appointed by the Controller of Examinations.
- d) Each course, theory, practical, EEC, Mandatory Courses shall be evaluated for a maximum of 100 marks as shown in table 4.a and 4.b.

Course Type	Weightage for	
	Continuous Internal Assessment	End Semester Examinations
Theory Courses (T)*	40 Marks	60 Marks
Theory Courses with Practical Component (TP)	50 Marks	50 Marks
Practical Courses (P)*	60 Marks	40 Marks

* Excluding Employability Enhancement Courses (EEC) and Mandatory Courses (MC)

Table 4 (a). Assessment for Course Types

Course Category	Weightage for	
	Continuous Internal Assessment	End Semester Examinations
Employability Enhancement Course (Excluding Project Work)	100 Marks	-
Employability Enhancement Course (Project Work)	60 Marks	40 Marks
Mandatory Course (Excluding Summer Internship)	100 Marks	-
Mandatory Course (Summer Internship)	-	-

Table 4 (b). Assessment for Employability Enhancement Courses and Mandatory Courses

10 PROCEDURE FOR AWARDING MARKS FOR CONTINUOUS INTERNAL ASSESSMENT

10.1 Theory Courses

- For theory courses specified in the curriculum, out of 100 marks, the maximum mark for Continuous Internal Assessment is 40 and the End Semester Examinations is 60.
- The continuous internal assessment marks are awarded as per the procedure as follows.
- Continuous Internal Assessments comprises of two mid semester examination and a preparatory Examination, Assignment, Seminar and Case Study and Presentation / Tutorial/ Mini Project any other experimental learning methods. The Corresponding weightage is shown in the following table.

Assessments	Syllabus	Duration	Max Marks	Weightage (Marks reduced to)
Mid Semester Examination - I	2.5 Units	3 hrs	100	8
Mid Semester Examination - II	2.5 Units	3 hrs	100	8
Preparatory Examination	5 Units	3 hrs	100	8
Assignment	Assignments covering all Course Outcomes		100	8
Seminar and (Tutorial / Case studies/Mini Project etc.,)			100	8
Total Marks				40

Table 5. Evaluation components for Internal Assessment for Theory Courses

- d) In case a student has not appeared for the Continuous Internal Assessment due to medical reasons (hospitalization/ accident / specific illness) or due to participation in State / National/ International level Sports events with prior permission from the HOD / Head of the Institution, a reassessment for any one of the Continuous Internal Assessment shall be given through the concerned course handling faculty

10.2 Laboratory Courses

For laboratory courses specified in the curriculum, out of 100 marks, the maximum mark for Continuous Internal Assessments is 60 and the End Semester Examinations is 40. There shall be at least one test. The criteria for arriving at the Internal Assessment marks of 60 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

Parameter	Marks
Observation	25
Performance	15
Evaluation	15
Execution	10
Viva Voce	10
Total	75
Average of all Experiments (A)	75 (Rounded to the nearest integer)
Model Practical Examination (B)	100 (To be scaled down to 25 Marks)
Continuous Internal Assessment Marks (C=A+B)	75+25 = 100 Marks (To be scaled down to 60 Marks)

Table 6. Evaluation components for Internal Assessment for Laboratory Courses

10.3 Theory Courses with Laboratory Component

Weightage of internal assessment and end semester examination marks will be 50% each. The distribution of marks for the theory and laboratory components in the internal assessments and end semester examination for different types of courses are provided in the table.

Assessments	Syllabus	Duration	Max Marks	Weightage (Marks reduced to)
Mid Semester Examination - I	2.5 Units	3 hrs	100	6
Mid Semester Examination - II	2.5 Units	3 hrs	100	6
Preparatory Examination	5 Units	3 hrs	100	6
Assignment	Assignments covering all Course Outcomes		100	4
Presentation			100	3
Continuous Internal Laboratory Assessment			75	20
Model Practical Examination			100	5
Total Marks				50

Table 7.a. Evaluation components for Internal Assessment for Theory courses with Laboratory Component

L	T	P	C	Internal Assessment	External Assessment
2	0	2	3	Theory (25%) Laboratory (25%)	Theory (25%) Laboratory (25%)
3	0	2	4	Theory (25%) Laboratory (25%)	Theory (35%) Laboratory (15%)

Table 7.b. Distribution of marks for theory courses with laboratory component

10.4 Project Work

- For Project Work, out of 100 marks, the maximum mark for continuous internal assessments is 60 and the End Semester Examinations is 40.
- The Head of the Department shall constitute a review committee for project work for each branch of study.
- Project work may be assigned to a single student or to a group of students not exceeding 4 per group. The student(s) is expected to follow the instructions of the project coordinator and Head of the department.
- The student(s) is expected to submit the project report on or before the last working day of the semester
- The last date for submission of the project report is on the last working day of the semester. If a student fails to submit the project report on or before the specified deadline, it will be considered as fail in the Project Work and the student shall re-register for the same in the subsequent semester.
- The corresponding weightage for Project Work Phase I/II shall be distributed as indicated in the following table.

Continuous Assessment (60 Marks)			End Semester Examinations (40 Marks)			
Review I (10 Marks)	Review II (20 Marks)	Review III (30 Marks)	Project Report	Viva-Voce Examination		
Review Committee	Review Committee	Review Committee	External	Internal	External	Supervisor
10	20	30	10	10	10	10

Table 8. Distribution of marks for project work

10.5 Summer Internship/ Industrial Training/ Other Employability Enhancement Courses

10.5.1 Internship/ Industrial Training

- a) After completion of the IV, VI Semester, the student may undergo Summer Internship / Industrial Training after getting prior permission from HoD.
- b) Internship and in-plant training in relevant organization / institutions shall be provided to the students in line with the course they go through in the curriculum.
- c) Duration of the training will be minimum of two weeks during summer vacation.
- d) Proof for the participation along with satisfactory completion certificate obtained from the organization concerned is mandatory.
- e) The completion of the Internship/ Industrial Training shall be printed in the Grade Sheet as “COMPLETED”.

10.5.2 Employability Enhancement Courses

Employment Enhancement Courses (EEC) will be continuously assessed internally as per the following assessment procedure.

Mid Semester Examination – I (Online Test / Quiz / Written Test / Oral Tests / Assignment / Tool test) (100 MARKS)	Mid Semester Examination – II (Online Test / Quiz / Written Test / Oral Tests / Assignment / Tool test) (100 MARKS)	Preparatory Exam (Online Test / Quiz / Written Test / Oral Tests / Assignment / Tool test) (100 MARKS)	Total
25	25	50	100

Table 9.a. Evaluation components for Internal Assessment for Employability Enhancement Courses Theory Based

Review-I (100 MARKS)	Review – II (100 MARKS)	Review-III (100 MARKS)	Total
25	25	50	100

Table 9.b. Evaluation components for Internal Assessment for Employability Enhancement Courses Mini Project/Practical Based

10.5.3 Non- credit Courses

- a) Induction program, Internship and Mandatory courses includes Constitution of India, Industrial Safety etc.,
- b) List of students, who have successfully completed the above courses shall be certified by the Head of the Institution. The completion of the Non-Credit Courses shall be printed in the Grade Sheet as “COMPLETED”.

11 EXTERNAL ASSESSMENT

11.1 External Assessment for Theory/Laboratory Courses

The End Semester Examinations for theory/ laboratory/ MC courses will be of 3 hours duration and shall normally be conducted in the month of November/ December during the odd semesters and the month of April/May during the even semesters. End Semester Examination is a mandatory requirement for passing the course and every student should appear for the examination for Theory/ Laboratory Courses.

11.2 External Assessment for Project Work

- a) Project work may be assigned to a single student or to a group of students not exceeding 4 per group. The student(s) is expected to submit the project report on or before the last working day of the semester.
- b) The End Semester Examination for project work shall consist of evaluation of the final project report submitted by the student or students of the project group by an external examiner followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner and an internal examiner.
- c) If the project report is not submitted on or before the specified deadline or absent for final viva-voce, then the student(s) is deemed to have failed in the Project Work. The failed student(s) shall reappear for the same in the subsequent semester
- d) All project reports shall be preserved for six consecutive semesters in the department office concerned.

12 CONTINUOUS INTERNAL ASSESSMENT MARKS AND ATTENDANCE RECORD

- a) Continuous Internal Assessment marks approved by the Head of the Department shall be displayed

in the respective departments within 2 days from the last working day of the semester.

- b) Every Faculty is required to maintain an **ATTENDANCE AND ASSESSMENT RECORD** which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topic covered), separately for each course. This shall be submitted to the Head of the Departments periodically (at least three times in a semester) for checking the syllabus coverage and the records of test marks and attendance. At the end of the semester, after due verification, the HoD will approve this record. This record shall be verified by the Head of the Institution and kept in safe custody for 5 years in the department concerned.
- c) The Practical classes for all the Practical /Lab component subjects will be assessed continuously and marks will be entered in the assessment record. If a student is absent for a laboratory class, then the student will be permitted to perform experiments based on the recommendation of the HoD during repeat classes conducted at the end of completion of all the experiments.

13 ELIGIBILITY FOR APPEARING IN SEMESTER EXAMINATION

A student who has fulfilled the following conditions shall be deemed to have satisfied the attendance requirements for appearing for the end semester examination of a particular course.

- a) Ideally every student is expected to attend all classes of all the courses and secure 100% attendance. However, the student shall **secure not less than 75%** (after rounding off to the nearest integer) of the overall attendance.
- b) However, a student who secures overall attendance between 65% and 74% in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in the College / University / State / National / International level sports events may be permitted to appear for the current semester examinations, subject to the condition that the student shall submit the medical certificate / sports participation certificate approved by the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purpose.
- c) Students who **secure less than 65% overall attendance** shall not be permitted to write the end of the semester and not permitted to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the institution norms prescribed
- d) A student shall normally be permitted to appear for the end semester examination of the course if the student has satisfied the attendance requirements (vide Clause 13.a and 13.b) and has registered for the examination in those courses of that semester by paying the prescribed fee.
- e) Students who do not satisfy clause 13.a and 13.b and candidates who secure less than 65% attendance will not be permitted to write the End Semester Examination and will not be permitted to move to the next semester. They are required to repeat the incomplete semester in the next

academic year, as per the norms prescribed.

- f) A student who has already appeared for a course in a semester and passed the examination is not entitled to reappear for the same course for improvement of letter grades / marks.

14 **PASSING REQUIREMENTS**

- a) Passing minimum for each theory/ practical/ theory courses with practical component/ project work/ EEC courses is
- 45% in the End Semester Examinations
 - Minimum 50% of the grand total of Continuous Assessment marks and End Semester Examinations marks put together.
- b) For students scoring less than the passing minimum marks in the end semester examinations, the term “U” against the concerned course will be indicated in the grade sheet. The student has to reappear in the subsequent examinations for the concerned course as arrears.
- c) For a student who is absent for theory / practical / project viva- voce, the term “UA” will be indicated against the corresponding course. The student should reappear for the end semester examination of that course as arrear in the subsequent semester.
- d) The letter grade “W” will be indicated for the courses for which the student has been granted authorized withdrawal.
- e) For theory courses with laboratory component, following requirement to be satisfied in the end semester examination for getting pass grade

Theory	Laboratory	Status
Pass	Pass	Pass
Fail	Pass	Re-appearance required for both Theory and Laboratory component of the concerned course
Pass	Fail	
Absent	Pass/Fail	
Pass/Fail	Absent	
Absent	Absent	

Table 10. Passing Requirement for Theory courses with Laboratory Component

15 **ARREAR EXAMINATION**

Students who fail in the end semester examinations with “U” grade and absentees with “UA” grade can appear for the exam in the subsequent semesters. Arrear examinations shall be conducted along with the regular examinations in Nov/Dec and Apr/May.

16 PHOTOCOPY/ RETOTALING/ REVALUATION

- a. A student when not satisfied with the evaluation can apply for revaluation after consulting with the course faculty and HoD. Revaluation can be applied only for theory courses.
- b. Candidates who apply for photocopy of answer scripts only will be eligible for applying for retotaling/ revaluation.
- c. The student should pay for getting photocopy of the answer script / revaluation as decided by the Finance Committee by submitting photocopy/ revaluation form duly approved by the head of the department. However, for re-totalling of the answer script, Student can apply for retotaling by submitting retotaling form, where no fee is required.
- d. Students can get the photocopy of the valued theory answer scripts after the publication of semester examination results (not for practical courses, project work, all one credit courses). It can be revalued and based on the same, the grade can get changed and if there is no change, the status NC grade shall be maintained. The grade that is obtained from the retotaling/ revaluation process is found to be better, then that grade will be retained as the final grade, else the earlier grade shall be retained as the final grade.
- e. The entire revaluation process must be completed within four weeks from the date of publication of results

17 REVIEW

Candidates not satisfied with Revaluation can apply for Review of the revaluation within the prescribed date on payment of a prescribed fee through proper application to Controller of Examinations. Students applying for Revaluation only are eligible to apply for Review.

18 PROVISION FOR WITHDRAW FROM SEMESTER EXAMINATION

- a. A student may, for valid reasons, and on prior application, may be granted permission to withdraw from appearing for one or more consecutive examinations in a semester. Such withdrawal shall be permitted only once during the entire period of study of the degree programme based on the recommendations given by the Head of the Department and Head of the Institution with required documents.
- b. Withdrawal application is valid only if it is submitted within TEN days prior to the commencement of the examinations as recommended by the Head of the Institution and approved by Controller of Examinations.
- c. In extraordinary conditions, the TEN days requirement stated above shall be waived at the

discretion of the Head of the Institution based on the merit of the case.

- d. However, withdrawal shall not be considered as an appearance for the eligibility of a student for First Class with Distinction.
- e. If a student withdraws from writing end semester examinations for a course or courses, he/she shall register for the same in the subsequent semester and write the end semester examination(s).
- f. Withdrawal essentially requires the student to register for the course/courses. In the case of withdrawal, the same will be appropriately reflected in the Grade Sheets.
- g. If a student applies for withdrawal from Project Work, he/she will be permitted for the withdrawal only after the submission of project report before the deadline. However, the student may appear for the viva voce examination within 60 days after the declaration of results for Project Work and the same shall not be considered as reappearance.

19 PROVISION FOR AUTHORIZED BREAK OF STUDY

- a. A student is permitted to opt for break of study for a maximum period of one year only in a single spell.
- b. Break of Study shall be granted only once for valid reasons during the entire period of study of the degree programme. However, in extraordinary situation the student may apply for additional break of study not exceeding another one year. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the DOTE, Affiliating University, through the Head of the Institution stating the reasons thereof and the probable date of rejoining the programme. However, if the candidate has not completed the first semester of the programme, Break of Study will be considered only on valid medical reasons.
- c. The candidates permitted to rejoin the programme after break of study, shall be governed by the Curriculum and Regulations in force at the time of rejoining. Students rejoining in new Regulations should appear for additional courses if any, as prescribed by Department Advisory Committee so as to bridge the curriculum in-force and the old curriculum. In such cases, the total number of credits to be earned by the student may be more than or equal to the total number of credits prescribed in the curriculum in force.
- d. The authorized break of study would not be counted towards the overall duration for completing the degree.
- e. All the norms are liable to change upon the terms of the affiliated university.
- f. If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study'

20 AWARD OF LETTER GRADES

20.1. Theory Courses/ Theory with Lab Components

The award of letter grades for all above courses will be decided based on relative grading principle. The relative grading is applicable to ONLY those students who have passed the examination as per the passing requirements enumerated above. For those students who have not passed the examination, Reappearance (U) shall be awarded as shown in the below Table. For those students who have passed the course, the relative grading shall be done. The marks of those students who have passed only shall be inputted in the software developed for relative grading. The award of letter grades will be decided by overall mark a student obtains and the performance of a student will be reported using letter grades, each carrying certain points as detailed below:

Letter Grade	Grade Point
O (Outstanding)	10
A+ (Excellent)	9
A (Very Good)	8
B+ (Good)	7
B (Average)	6
C (Satisfactory)	5
U (Re-appearance)	0
UA (Absent)	0
SA (Shortage of Attendance)	0
W (Withdrawal)	0

Table 11. Award of Letter Grades for Theory Courses/ Theory with Lab Components

O	A+	A	B+	B	C	U
91 - 100	81 - 90	71 - 80	61 - 70	56 - 60	50 – 55	< 50

Table 12. Grade Range

- For a given course, if the students' strength is greater than 30, the relative grading method shall be adopted. However, if the students' strength is less than or equal to 30 then the fixed grading shall be followed with the grade range as specified for practical courses.
- "U" denotes that the student has failed to pass in that course. "W" denotes withdrawal from the exam for the particular course. The grades U and W will figure both in the Grade Sheet as well as in the Result Sheet. In both cases, the student has to appear for the End Semester Examinations as per the Regulations.

20.2. Practical/Project

All assessment for the Practical/Project will be done on mark basis.

The letter grade and the grade point for those courses are awarded based on percentage of marks secured by a candidate (absolute grading principle) in relevant course as detailed below.

Percentage range of Total Marks	Letter Grade	Grade Point
91 to 100	O (Outstanding)	10
81 to 90	A+ (Excellent)	9
71 to 80	A (Very Good)	8
61 to 70	B+ (Good)	7
56 to 60	B (Average)	6
50 to 55	C (Satisfactory)	5
0 to 49 (Re-appearance)	U	0
Absent	UA	0
Shortage of Attendance	SA	0
Withdrawal from the final examination	W	0

Table 13. Award of Letter Grades for Practical/Project

- If the grade U is given to Theory Courses/ Laboratory Courses, it is not required to satisfy the attendance requirements, but has to appear for the end semester examination and fulfil the norms as specified for the relevant courses to earn a pass in the respective courses.
- If the grade U is given to EEC course (except Project Work), which are evaluated only through internal assessment, the student shall register for the course again in the subsequent semester, fulfil the norms as specified for EEC course to earn pass in the course. However, attendance requirement need not be satisfied.

- c) After the completion of the programme, the Cumulative Grade Point Average / Semester Grade Point average is calculated using

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

Where C_i = Number of Credits assigned to the course
 GP_i = Point corresponding to the grade obtained for each course
 n = Number of all courses successfully cleared during the particular semester in the case of SGPA and during all the semesters in the case of CGPA

- d) After the results are declared, grade cards will be issued to each student which contains the list of registered courses with grades obtained.
- e) The Semester Grade Point Average (SGPA) for each semester will be calculated and reflected in the grade sheet.
- f) Similarly, Cumulative Grade Point Average (CGPA) up to current semester will be calculated and reflected in the grade sheet.
- g) At the end of the programme, every successful student will be issued with consolidated statement of grades which contains the following particulars:
- i. Grades in the courses of all the semesters (SGPA)
 - ii. Cumulative Grade Point Average (CGPA)
- h) In the consolidated grade sheet, the CGPA earned shall be converted into percentage of marks as follows:

$$\text{i. Percentage of Marks} = \text{CGPA} \times 10$$

21 ELIGIBILITY FOR AWARDING DEGREE

A student shall be eligible for the award of the degree only if he/she:

- a) Has undergone the prescribed programme of study by earning the minimum total number of credits specified in the curriculum of the relevant programme of study within the maximum duration prescribed.
- b) Should have no disciplinary action pending against him/her including malpractices in examinations.
- c) Should have successfully completed all Mandatory Courses, EEC Courses and satisfy all requirements
- d) The award of Degree must have been approved by the Syndicate of the University

22 CLASSIFICATION OF THE DEGREE AWARDED

a) First Class with Distinction

A student who satisfies the following conditions shall be declared to have passed the examination in

First class with Distinction:

- Should have passed the examination in all the courses of all the eight semesters in the student's First Appearance within **five** years. Withdrawal from examination will not be considered as an appearance.
- Should have secured a CGPA of not less than **8.50**.
- One-year authorized break of study (if availed of) is included in the five years for award of First class with Distinction.
- Should not have been prevented from writing end semester examination in any of the courses of the Curriculum making up the total credit requirement.

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits above the requirement of curriculum (iv)	CGPA (v)	Pas s in (vi)	Break of study (vii)	Preven tion to write end semes ter exami nation	Withdra wal from writing end semester examinatio n (viii)
B.E./ B.Tech. (Regular)	4 years	5 years	-	8.50	First atte mpt	One year authoris ed break of study include d in the Duratio n permitte d (iii)	Not permitted	Will not be consider ed as an attempt
B.E./ B.Tech. Lateral Entry	3 years	4 years	-	8.50	First atte mpt	One year authoris ed break of study include	Not permitted	Will not be consider ed as an attempt

						d in the Duratio n permitted (iii)		
B.E./ B.Tech. (Hons)	3/4 years (Lateral entry, Regular, respecti vely)	4/5 years (Later al entry, Regul ar, respe ctively)	18 credits from more than one vertical s of the same progra mme	8.50	First atte mpt	One year authoris ed break of study include d in the Duratio n permitted (iii)	Not permitted	Will not be consider ed as an attempt
B.E./ B.Tech. minor	3/4years (Lateral entry, Regular, respecti vely)	4/5 years (Later al entry, Regul ar, respe ctively)	18 credits from any one vertical of the other progra mme	8.50	First atte mpt	One year authoris ed break of study include d in the Duratio n permitted (iii)	Not permitted	Will not be consider ed as an attempt

Table 14. B.E./ B.Tech. Minor /Hons First Class with Distinction

b) First Class

A student who satisfies the following conditions shall be declared to have passed the examination in

First class:

- Should have passed the examination in all the courses of all eight semesters **within five years**.
- One-year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of five years for award of First class.
- Should have secured a CGPA of not less than **6.50**.

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits (iv)	CGPA (v)	Pas s in(vi)	Breakof study(vii)	Prevent ion to write end semester examination	Withdrawal from writing end semester examination (viii)
B.E./ B.Tech. (Regular)	4 years	5 years	-	6.50	-	One year authorised break of study included in the Duration permitted (iii)	Included in the Duration permitted (iii)	-
B.E./ B.Tech. Lateral Entry	3 years	4 years	-	6.50	-	One year authorised break of study included in the Duration permitted	Included in the Duration permitted (iii)	-
B.E./ B.Tech. (Hons)	3/4 years (Lateral entry, Regular, respectively)	4/5 years (Lateral entry, Regular, respectively)	18 credits from more than one verticals of the same programme	7.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./ B.Tech. minor	3/4 years (Lateral entry, Regular, respectively)	4/5 years (Lateral entry, Regular, respectively)	18 credits from any one vertical of the other programme	6.50	-	One year authorised break of study included in the Duration Permitted (iii)	Included in the Duration permitted (iii)	-

Table 15. B.E./ B.Tech. Minor /Hons First Class

c) Second Class

Students who pursue B.E./B.Tech. in Regular mode or lateral entry mode or B.E./B.Tech. minor in specialization of another discipline and who are not covered in clauses 22.a) and 22.b) and who qualify for the award of the degree shall be declared to have passed the examination in **Second Class**.

23 MALPRACTICE

- a) If a student indulges in malpractice in any of the End Semester Examination / internal examination, he / she shall be liable for punitive action as prescribed by the Institution from time to time
- b) The Controller of Examinations shall refer the cases of malpractices in continuous internal assessment tests and semester-end examinations, to the Malpractice Enquiry Committee, constituted by him/her for the purpose. Such committee shall follow the approved scales of punishment.
- c) The Controller of Examinations shall take necessary action, against the erring students based on the recommendations of the Enquiry committee.
- d) Any action on the part of candidate at an examination like possession of incriminating materials, cheat sheets, trying to get undue advantage in the performance or trying to help another, or derive the same through unfair means is punishable according to the guidelines prescribed by the Office of the Controller of Examinations.

24 TRANSISTORY REGULATIONS

- a) A candidate, who is detained or discontinued the semester, on re- admission shall be required to pass all the courses in the curriculum prescribed for such batch of students in which the student joins subsequently and the academic regulations be applicable to him/her which are in force at the time of his/her re-admission.
- b) However, exemption will be given to those candidates who have already passed in such courses in the earlier semester(s) and additional courses are to be studied as approved by Head of the Department, Dean Academics and Head of the Institution.

25 DISCIPLINE

- a) 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 reputation of the College.
- b) The Head of Institution shall constitute a disciplinary committee consisting of Head of Institution, two Heads of Department of which one should be from the faculty of the student, to enquire into acts of

indiscipline and notify about the disciplinary action recommended for approval.

- c) In case of any serious disciplinary action which leads to suspension or dismissal, then a committee shall be constituted including one representative from Anna University, Chennai.
- d) In this regard, the member will be nominated by the University on getting information from the Head of the Institution

26 REVISION OF REGULATION, CURRICULUM AND SYLLABUS

- a) The curriculum and syllabi under this regulation will be for four years. The college may from time-to-time revise, amend or change the Regulations, Curriculum, Syllabus and Scheme of examinations through the Board of Studies and Academic Council with the approval of the Governing Body of the college.
- b) 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 the special case on such references and get them ratified in the next meeting of the Academic Council. The decision of the Academic Council will be final.