

GOVERNMENT COLLEGE OF TECHNOLOGY: COIMBATORE 641 013
(An autonomous Institution affiliated to Anna University)
REGULATIONS 2022

CHOICE BASED CREDIT SYSTEM

Common to all B.E. / B.Tech. Full-Time Programmes

(For the students admitted to B.E. / B.Tech. Programme during the Academic year 2022 - 2023 onwards)

1 PRELIMINARY DEFINITIONS AND NOMENCLATURE

In this regulation, unless the context otherwise specifies:

- I. "University"** means ANNA UNIVERSITY, Chennai.
- II. "Programme"** means B.E. /B.Tech. Degree Programme.
- III. "Branch"** means a discipline or specialization of B.E. /B.Tech., Degree Programme like Civil Engineering, Information Technology etc.
- IV. "Course"** means a *Theory* or *Theory with Practical component* or *Practical* subject that is normally studied in a semester like Engineering Mathematics, Engineering Mechanics etc.
- V. "Principal & Chairman"** means the authority of the institution who is responsible for all academic activities, for the implementation of relevant rules and regulations.
- VI. "Controller of Examinations"** means the authority of the institution who is responsible for all activities of the End Semester Examinations of all Departments and hereafter called COE.
- VII. "Head of the Department"** means Head of the Under Graduate Programme concerned and hereafter called HOD.
- VIII. "Programme Coordinator"** means the coordinator of the programme concerned. He/she acts as interface between programme and key stakeholders, students, faculties and employer. He/She is responsible for planning the academic activities of the programme along with the course coordinator(s) and the HOD. He/She also prepares, evaluates and analyses the attainment of the programme outcomes along with Programme Advisory Committee.
- IX. Faculty Advisor**
The Faculty Advisor is responsible for providing general advice on the Academic matters, monitor the attendance and academic performance of the students and counsel them periodically. If necessary, the Faculty Advisor may also inform the parents about the progress / performance of the students concerned through HOD.
- X. Course Coordinator**
Course Coordinator is responsible for teaching the course, evaluating and analysing the performance of the students. He/ She is also responsible for the assessment of the Course Outcomes/Program Outcomes/ Program Specific Outcomes. He / She recommends to organize workshops /seminars/guest lecture / industrial visits to meet the Course Outcomes and Program Outcomes.
- XI. Department Consultative Committee (DCC)** consists of the HOD, Programme Coordinator and maximum of two faculty members as applicable.
- XII. Class Committee**
Class committee for each semester of a programme comprises of HOD, Programme Coordinator, Faculty Advisor, Course Coordinators (as applicable) and Student Representatives. The functions of the class committee include:
 - Solving problems experienced by students in the class room and in the laboratories.
 - Clarifying the regulations of the degree programme and the details of rules therein particularly (clause 5, 6 and 7).
 - Informing the student representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
 - Informing the student representatives, the details of Regulations regarding

weightage used for each assessment. In the case of practical courses (laboratory / drawing / project work / seminar etc.) the breakup of marks (rubrics) for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.

- Analyzing the performance of the students of the class after each test, review of outcomes and finding the ways and means of solving problems, if any.
- Identifying the slow-learners, if any, and requesting the course coordinators concerned to provide some additional help or guidance or coaching to such students.
- The class committee for a class under a particular branch is normally constituted by the Head of the Department.
- The class committee shall be constituted within the first week of each semester.
- At least 4 student representatives (usually 2 boys and 2 girls) shall be included in the class committee, covering all the elective courses.
- The Head of the Institution may participate in any class committee meeting of the institution.
- The HOD 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 arrange to circulate it among the students and course coordinators concerned. If there are some points in the minutes requiring action, the same shall be brought to the notice of the Head of the Institution.
- 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/HOD 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 clause 7 of this Regulation. 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

XIII. Programme Advisory Committee

Programme Advisory Committee consists of HOD, Programme Coordinator, one Senior Faculty Member by rotation, one subject Expert outside the Institution, one representative from Industry and one representative from the Alumni. Their roles are as follows:

- Suggest methodologies for the preparation of syllabi.
- Suggest methodologies for innovative teaching-learning and evaluation techniques.
- Co-ordinate research, teaching, extension and other academic activities of the Programme
- Approval of Vision, Mission, PEOs, POs, PSOs, Course Objectives and Course Outcomes.
- Suggest methodologies for CO, PO and PSO assessments and tools.
- Review of CO, PO and PSO attainments.

2 ADMISSION PROCEDURE

- 2.1 (a) Students for admission to the first semester of the eight semesters B.E. / B.Tech. Degree Programme shall be required to have a pass in Higher Secondary Examination (Academic 10 + 2) Curriculum or its equivalent examinations with the subjects as notified by the Government of Tamilnadu.

(b) Candidates for admission to the Second year of the Four year B.E. / B.Tech. Degree programme shall be required to have passed,

i. the Diploma Examination in Engineering conducted by the State Board of Technical Education and Training, Tamilnadu.

(or)

ii. an Examination of any University or Authority, accepted by the Syndicate of the Anna University as equivalent thereto

(or)

iii. any other examination as notified by the Government of Tamilnadu.

Candidates who have passed Bachelor of Science conducted by the State Board of Collegiate Education, are eligible for admission to the Third Semester under Lateral Entry Scheme of the B.E. / B.Tech. Degree Programmes.

2.2 The eligibility criteria shall be as prescribed by Anna University, Chennai and Government of Tamilnadu from time to time.

3 BRANCHES OF STUDY

3.1 A student may be offered admission to any one of the branches of study approved by the Authorities.

Details of branches of study currently being offered by the Institution are listed below:

1. B.E. Civil Engineering
2. B.E. Mechanical Engineering
3. B.E. Electrical and Electronics Engineering
4. B.E. Electronics and Communication Engineering
5. B.E. Production Engineering
6. B.E. Electronics and Instrumentation Engineering
7. B.E. Computer Science and Engineering
8. B.Tech. Information Technology
9. B.Tech. Industrial Biotechnology
10. B.E. Computer Science and Engineering (AI & ML)

3.2 In addition to the regular four years B.E./B.Tech. programme, the following are offered by the Institution:

3.2.1. B.E./B.Tech Honors*

Students can earn, B.E./B.Tech. degree with honors in the chosen discipline of engineering by opting for six additional courses from the list of professional electives/verticals offered by their parent department

3.2.2. B.E./B.Tech with minor Degree*

Students who are desirous of pursuing their special interest areas other than the chosen discipline of Engineering can earn, B.E./B.Tech. degree with minor engineering by opting for six additional courses from one of the verticals offered by a department other than their parent department.

NOTE:* Verticals offered under B.E CSE Programme shall be considered for Honors in B.Tech. IT Programme, and shall not be considered for minor in other specialization. Similarly, Verticals offered under B.Tech. IT Programme shall be considered for Honors in B.E CSE Programme and shall not be considered for Minor in other specialization.

4 STRUCTURE OF THE PROGRAMMES

4.1 Categorization of Courses

Every B.E. / B. Tech. Programme will have a curriculum with syllabi consisting of theory,

theory with practical component and practical courses that shall be categorized as follows:

- i. **Humanities and Social Sciences including Management (HSMC)** Courses include Technical English, Communication skills, Humanities and Management.
(12 Credits) *
- ii. **Basic Sciences (BS)** Courses include Mathematics, Physics, Chemistry, Biology, etc.
(25 Credits) *
- iii. **Engineering Sciences (ES)** Courses include Engineering Practices, Engineering Graphics, Basics of Electrical/ Electronics/ Mechanical/ Computer, etc.
(24 Credits) *
- iv. **Professional Core (PC)** Courses include the core courses relevant to the chosen specialization/branch of study.
(48 Credits) *
- v. **Professional Elective (PE)** Courses include the elective courses relevant to the chosen specialization/ branch of study.
(18 Credits) *
- vi. **Open Elective (OE)** Electives from other technical and/or emerging courses are given as a separate list of Elective Courses offered by the Engineering / Science Departments and a student can choose a Course as Open Elective from the above list of Courses.
(18 Credits) *
- vii. **Employability Enhancement Courses (EEC)** include Capstone Project, Industrial Training / Practical Training/ Internship/ Summer Projects / Seminars /Professional Practices /Case Study, Value added courses.
(15 Credits) *
- viii. **Mandatory courses (MC)** include Environmental Science and Engineering, Induction Programme, Constitution of India, Essence of Indian traditional knowledge.
(0 Credits) *

***Minor variations are allowed as per the need of the respective discipline.**

4.2 Number of credits per semester

Curriculum of a semester shall normally have a blend of Lecture Courses and practical Courses. In addition, Employability Enhancement Course(s) may also be included. Each course may have credits assigned as per Clause 4.3. However, the total number of credits per semester shall not exceed 36 (including EEC, credit transfer from SWAYAM/NPTEL courses, courses registered for honors/ minor engineering, and excluding Value Added courses, reappearance courses).

4.3 Credit Assignment

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

Table 1- Credit Assignment

CONTACT PERIOD PER WEEK	CREDIT(S)
1 Lecture Period	1
1 Tutorial Period	1
1 Practical Period (Laboratory / also for EEC courses like Seminar / Project Work /Case study / etc.)	0.5

4.4 Range of Credits

A range of credits from **165 to 170** for a student to be eligible to get the Under Graduate degree in engineering and additional 18 credits for honors/minor students.

4.5 Industrial Training / Practical Training/ Internship/ Summer Projects / Seminars /Professional Practices /Case Study

The students should **complete 4 weeks** of Industrial Training / Practical Training/ Internship/ Summer Projects / Seminars /Professional Practices /Case Study during Summer/Winter Vacation to become eligible for the award of degree in a reputed industry in their respective discipline of study during the period specified in the curriculum.

Table 2 – Training: Duration and Credit

DURATION OF INDUSTRIAL TRAINING/ PRACTICAL TRAINING/ INTERNSHIP/ SUMMER PROJECTS/ SEMINARS/ PROFESSIONAL PRACTICES/ CASE STUDY	CREDITS
Not less than 2 weeks (80 – 90 hours) /4 weeks (160 – 180 hours)	2 Credits/4 Credits

4.6 Value added courses

Value added courses shall be offered by the department with the prior approval from BOS and Academic Council. The credits earned through value added course shall be over and above the total credit requirement prescribed in the curriculum for the award of degree. **Students can earn maximum of one value added course per semester (This limit does not include the Naan Mudhalvan Scheme Courses). The permitted credit structure for a value added course is 1/2/3.** Industry offered and skill development courses shall be considered under this category. These value added courses can also be undergone through online platform approved by the Board of Studies through Department Consultative Committee. The course(s) (if pursued through online mode) which is/are successfully completed by the student in a particular ODD/EVEN semester during the course of study is eligible for including in the grade sheet in the immediate next EVEN/ODD semester by registering it.

4.6.1. Employability Enhancement skill based courses offered under Naan Mudhalvan scheme of Government of Tamil Nadu :

A student may accumulate upto 6 credits through Employability Enhancement skill based course offered Under Naan Mudhalvan scheme of Government of Tamil Nadu, and such credits will be considered in lieu of the Professional and / or Open Elective courses. This credit transfer is not applicable for Professional Elective courses registered under honours / minor degree.

Procedure to drop Professional Elective/Open Elective course(s) and computation of Grade point:

A student may accumulate up to 6 credits through such courses, and such credits will be considered in lieu of the Professional Elective and/or Open Elective courses with the recommendations of respective BOS. In this regard, a student is permitted to drop either 1 or 2 Professional Elective / Open Elective course(s) as per the procedure given below.

Table: Procedure to drop Professional Elective / Open Elective course(s)

No. of courses	Total No. of credits earned	Courses to be printed in the grade sheet	No. of Professional elective/ open elective can be dropped	No. of credits considered for GPA/CGPA calculation
1	2	1	-	-
2	4	2	1	3
3	6	3	2	6

- The credits earned by the student of the successfully completed Skill Based Courses shall be recorded in the grade sheet.
- If a student has not successfully completed the skill based courses during the semesters V, VI and VII, then the same shall not be recorded in the grade sheet.
- If a student earns 2 credits in Semester V and then enrolls for another 2 credits in Semester VI, then he / she is permitted to drop one Professional elective/ open elective course in Semester VI. Further, if the student earns 4 credits upto Semester VI and enrolls for another 2 credits in Semester VII, then he/she is permitted to drop an additional professional elective/open elective course in the VII semester.

If the student has enrolled for skill based courses but has not successfully earned 4 or 6 credits and also dropped 1 or 2 PE/OE courses in anticipation of pass, then he/she has to enroll the PE/OE (as the case may be) to meet the total credit requirements to earn the degree.

Method for computation of Grade point of dropped PE / OE courses

The method of Computation of Grade point for the dropped PE/OE courses is given below:

1. If a student has successfully completed two Skill Based Courses, then the computation of Grade point for one PE/OE course dropped in lieu of those two skill based courses is as follows.

Grade point = $(2 \text{ credits} * \text{higher grade point obtained} + 1 \text{ credit} * \text{lower grade point obtained}) / 3 \text{ credits}$.

For example, for two courses of two credit each, if the grades obtained are,

Course 1– C grade – 5 points

Course 2– O grade – 10 points

Then, the grade point of the dropped course for the calculation of CGPA is obtained as:
 $(1 \times 5 + 2 \times 10) / 3 = 8.33$.

One PE/OE course shall be dropped for 3 credits with grade point computed as above.

If a student has successfully completed three Skill Based Courses, then the computation of Grade point for dropping two PE/OE in lieu of those three skill based courses is as follows.

For three courses of two credit each Computation of Grade point of each of the two dropped PE/OE courses for the calculation of

CGPA = Average grade point of three skill based courses.

Two PE/OE courses shall be dropped of 3 credits each, with grade point computed as above.

4.7 Industrial Visit

Every student is required to go for at least one Industrial Visit every year preferably from the second year of the programme. The Course Coordinator(s) / Faculty Advisor / HODs shall ensure that necessary arrangements are made in this regard.

4.8 Online Courses offered through SWAYAM

Students may be permitted to credit a maximum of two online courses, subject to a maximum of six credits, registered through SWAYAM instead of Professional/Open Elective Courses (For Honors / Minor degree, additional two SWAYAM online courses with 3 credits each, are permitted for credit transfer) of regular B.E/B.Tech Programme with the approval of Board of Studies through Department Consultative Committee. The online course of minimum 3 credits can be considered instead of one Professional / Open elective course. The DCC consists of the HOD, Programme Coordinator, Senior Faculty member and the department SWAYAM coordinator. The DCC finalizes the courses to be permitted for credit transfer through SWAYAM prior to the commencement of the semester. The courses selected through the SWAYAM may not be necessarily the courses which are offered in the list of Professional/Open Elective courses, as part of the curriculum.

The Committee also intimates the students about the selected courses prior to the commencement of the semester, identify and designate a Course Coordinator for the online course(s) offered. The Course Coordinator guides the students throughout the course, submits the certificates and marks earned by the students to the office of the Controller of Examinations during credit transfer request by the student.

4.8.1 Credit Transfer of Online Courses offered through SWAYAM

The student has to register for the credit transfer of the online course during the course registration. The online course(s) which is/are successfully completed by the student in a particular ODD/EVEN semester during the course of study is eligible for credit transfer in the immediate next EVEN/ODD semester by registering it (i.e. an online course is eligible for credit transfer in the immediate next semester only).

4.9 Medium of Instruction

The medium of instruction is ENGLISH for all Courses, Examinations, Seminar Presentations and Project Reports.

5 DURATION OF THE PROGRAMMES

- 5.1 (a)** A student is normally expected to complete the B.E. / B.Tech. Programme in 4 years i.e. 8 Semesters, but in any case (including authorized break of study of one year) not more than 7 years i.e. 14 Semesters (vide clause 16.4).

(b) A Lateral Entry student is normally expected to complete the B.E. / B.Tech Programme in 3 years (6 Semesters), but in any case (including authorized break of study of one year) not more than 6 years i.e. 12 Semesters. The duration of B.E. / B.Tech Programme for a lateral entry student shall be three academic years with semester pattern. The courses of study for the Lateral Entry Diploma candidates shall be in accordance with the prescribed syllabus of Third to Eighth semesters of the Full Time Four Year B.E /B.Tech. Degree Programme of the respective branches.

(c) The courses of study for the Lateral Entry Science Graduates shall be in accordance with the prescribed syllabi of the Full Time Four year B.E. / B.Tech. Degree Programme of the respective branches. The additional courses offered will be decided by the respective Chairman, Board of Studies.

- 5.2 Each semester shall normally consist of 90 working days (including examination days) or 450 hours or 540 periods of each 50 minutes duration. The HOD shall ensure that every course coordinator imparts instruction as per the number of contact periods specified in the syllabus covering the full content of the syllabus for the course being taught.
- 5.3 The total duration for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum duration specified in clause 5.1 irrespective of the period of break of study (vide Clause 16) or prevention (vide Clause 7.5) in order that the student may be eligible for the award of the degree (vide Clause 14).
- 5.4 The Curriculum of U.G. Programmes shall be so designed that the prescribed minimum credits required for the award of the degree, which depends on the branch of study specified below:

Table 3 – Credit Range

PROGRAMME	PRESCRIBED CREDIT RANGE
B.E./B.Tech. (Full Time-Regular)	165-170
B.E./B.Tech. (Full Time-Lateral Entry)	124-129
B.E./B.TECH (Full Time Regular/Lateral Entry)	(165-170/124-129) + 18 Credits (Honors/Minor Degree)

6 COURSE ENROLLMENT AND REGISTRATION

- 6.1 Each student, on admission shall be assigned to a Faculty Advisor, who shall advice 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.
- 6.2 In the first semester of study, each student on admission shall register for all the courses prescribed for the first semester in the curriculum.
- 6.3 From the first semester onwards, every student shall enroll for all the courses of the next Semester in the current Semester itself. The enrollment for all the courses of the next semester will commence 10 working days prior to the last working day of the current Semester.
- 6.4 From second semester onwards, the student shall confirm the enrollment by registering for the courses within the first ten working days after the publication of results including revaluation results of the previous semester examinations. However, the student has to register for the courses for which the student has not enrolled, if these are the courses in which the student has failed.
- 6.5 Students who rejoined the programme after availing permitted Break of Study or Readmitted by DOTE/University need not submit new Enrollment Form, but they have to submit the course registration form. The Transfer and Lateral Entry Students who joined the programme in a particular semester have to submit the course registration form within the first 10 working days after the date of joining.
- 6.6 No course shall be offered by the department unless a minimum of 10 students register for that course.
- 6.7 Students shall attend the classes, satisfy the attendance requirements, earn Continuous Assessment marks and appear for the End Semester Examinations.

6.8 Flexibility to Add or Drop courses

- 6.8.1** A student has to earn the total number of credits specified in the curriculum of the respective Programme of Study in order to be eligible to obtain the degree. However, if a student wishes, the student is permitted to earn more than the total number of credits prescribed in the curriculum of the student's Programme.
- 6.8.2** The students shall undergo the eighth semester courses other than the Project Work in the sixth and seventh semesters, provided they do not have current arrears and have a CGPA of 7.50 and above at the end of Semester IV. The Faculty Advisor, Head of Department, in consultation with the faculty handling the said courses shall forward the proposal to the Controller of Examinations for approval at least 4 weeks before the commencement of the sixth semester of the programme. Total numbers of credits of such courses shall not exceed 3.
- 6.8.3** The students should not have current arrears and have a CGPA of 7.50 and above for registering additional courses. However, the maximum number of credits the student can register in a particular semester cannot exceed 36 credits (Including the EEC, credit transfer from SWAYAM/ NPTEL courses, course registered for Honors/ Minor degree and excluding the courses for which the student has done reappearance registration, value added courses).
- 6.8.4** From the second to final semesters, the student has the option of dropping existing theory courses in a semester during registration. The total number of credits of such courses shall not exceed 6 per semester. The student is permitted to drop the course(s) within 30 days of the commencement of the academic schedule.

6.9 Reappearance Registration

- 6.9.1** If a student fails in a Theory (except electives) /Theory with Practical component/ Practical course(s), the student shall do reappearance registration for that course in the subsequent semester and attend end semester examination.
- 6.9.2** The student who fails in Project work shall register for the same in the subsequent semester, satisfy attendance requirement, earn continuous assessment marks and appear for the End Semester Examinations. The student has submitted the project report and failed to attend the viva voce examination shall also be deemed to have failed in the project work. The student has not submitted the project report within the specified deadline shall also be deemed to have failed in the project work
- 6.9.3** If a student is prevented from writing end semester examination due to lack of attendance (overall attendance is below 65%), the student has to rejoin the programme in the next academic year after getting readmission order from DOTE/University. The student shall attend the classes and fulfil the attendance requirements as per clause 7, earn continuous assessment marks and appear for the end semester examinations.
- 6.10** B.E. / B. Tech. (Hons) and B.E. / B. Tech. minor with specialisation in another discipline
(i) B.E / B.Tech. (Hons.)
a. The students should have taken additional courses from a specified group of Professional

Electives (vertical) or from any of the verticals of the same programme and earned a minimum of 18 credits.

b. Should have passed all the courses prescribed in the curriculum and additional courses in the first attempt.

c. Should have earned a minimum of 7.50 CGPA taking into account of all the courses prescribed in the curriculum and additional courses.

(ii) B.E./B.Tech. Minor with specialisation in another discipline

a. The student should have earned additionally a minimum of 18 credits in any one of the verticals offered from other Engineering Disciplines.

b. Should have earned a minimum of 6.50 CGPA taking into account of all the courses prescribed in the curriculum and additional courses.

6.10.1 For these 18 credits students can optionally enroll and study a maximum of 6 credits in online mode from SWAYAM-NPTEL platform (in addition to the two online courses permitted for courses of curriculum), as approved by the Board of studies concerned.

6.10.2 B.E / B.Tech. (Hons.) and B.E./B.Tech. minor with specialisation in another discipline will be optional for students and the students shall be permitted to select any one of them only.

6.10.3 For the categories 6.10 (i), the students, including Lateral Entry, shall be permitted to register for the courses from Semester V onwards provided the students have earned a minimum CGPA of 7.50 until Semester III and have cleared all the courses in the first attempt.

6.10.4 For the category 6.10 (ii), the students, including Lateral Entry, will be permitted to register the courses from Semester V onwards provided the marks earned by the students until Semester III is CGPA 7.50 and above.

6.10.5 B.E/B.Tech. (Hons.) or B.E./ B.Tech. Minor shall be offered by the Department irrespective of the number of students enrolled.

6.10.6 If a student decides not to opt for Honours, after completing certain number of additional courses, such additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum.

If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be printed in the grade sheet ; however, they will not be considered for calculation of CGPA and the same shall be indicated in a foot note appropriately.

If the student has failed in the additional courses or faced shortage of attendance, they will not be printed in the grade sheet and will not be considered for CGPA calculation and classification of degree.

6.10.7 If a student decides not to opt for Minor, after completing certain number of courses, the additional courses studied shall be considered instead of Open Elective courses which are part of the curriculum.

If the student has studied more number of such courses than the number of open electives required as per the curriculum, the courses with higher grades shall be considered for calculation of CGPA. Remaining courses shall be printed in the grade sheet, however, they will not be considered for

calculation of CGPA and the same shall be indicated in a foot note appropriately.

If the student has failed in the additional courses or faced shortage of attendance, they will not be printed in the grade sheet and will not be considered for CGPA calculation and classification of degree.

The student has to enroll for these additional courses separately and pay additional exam fee.

7 ATTENDANCE REQUIREMENTS FOR THE END SEMESTER EXAMINATION OF A COURSE

A student who has fulfilled the following conditions (vide Clause 7.1 to 7.3) shall be deemed to have satisfied the attendance requirements for appearing the end semester examination of a particular Course.

- 7.1 Ideally, every student is expected to attend all periods and earn 100% attendance. However, the student shall secure not less than 75% attendance course wise taking into account the number of periods required for that course as specified in the Curriculum.
- 7.2 However, a student who secures overall attendance not less than 65% and less than 75% in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in 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 attested by the Head of the Department and the student shall apply for condonation with a prescribed condonation fee.

The condonation should be decided by a condonation recommendation committee consisting of HOD, Programme coordinator, Faculty Advisor and Course Coordinator(s) of the student. The committee scrutinizes the genuinity of the “Condonation application” and “Conduct” of the student and recommend it to the Principal and Chairman for the grant of condonation. In such cases, his / her conduct has to be certified "satisfactory" by the Course Coordinator, Faculty Advisor, Programme Coordinator and the HOD. The same shall be forwarded to the Controller of Examinations.

Condonation can be allowed only two times by paying prescribed fee during his / her entire course of study.

- 7.3 A student shall normally be permitted to appear for End Semester Examination of the Course, if the student has satisfied the attendance requirements (vide Clause 7.1 – 7.2) and has registered for examination of the Courses in that semester by paying the prescribed fee.
- 7.4 However, if the overall attendance is below 65%, the student will not be permitted to write the end semester examination in any course (excluding the course for which the student has done Re-Appeal Registration) and has to rejoin the programme in the next academic year after getting readmission order from DOTE / University.
- 7.5 The overall attendance is calculated by

$$\frac{\text{Total no. of periods attended in all the courses in the semester}}{(\text{No. of periods per week as prescribed in the curriculum}) \times 15} \times 100$$

Number of courses includes Additional Courses registered by the student during the semester, if

any.

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

8 ASSESSMENT PROCEDURES FOR AWARDING MARKS

All B.E. / B.Tech. Programmes consists of different categories of courses as mentioned in table 4. Appearance in End Semester Examination is mandatory for all courses excluding the courses for which only continuous assessment is recommended as mentioned in table 4.

Performance in each course of study shall be evaluated based on (i) Continuous assessments throughout the semester and (ii) End Semester Examination at the end of the semester.

(i.e.) Each course shall be evaluated for a maximum of 100 marks as shown below:

Table 4 – Categories of Courses

Sl.No	Category of Course	Continuous Assessment marks	End-Semester Examination marks
1.	Theory Courses	40	60
2.	Theory Courses with practical Component	50	50
3.	Practical Courses	60	40
4.	Project Work (Engineering Projects in Community Service/ Capstone Project/ Any other Project Work)	60	40
5.	Online SWAYAM/NPTEL Courses (Optional)	Marks awarded by SWAYAM/NPTEL shall be directly considered	
6.	All EEC Courses (Except Practical Courses and Project Work)	100	-
7.	Mandatory Courses (Except Induction Program [#])	40	60
8.	Value Added Courses * (Optional)	100	—
* Value Added Courses (come under EEC) – not included for GPA and CGPA calculation. # No assessment for Induction program			

Every course coordinator is required to maintain an ‘ATTENDANCE AND ASSESSMENT RECORD’ for every semester which consists of attendance marked in each Theory / practical/ EEC etc, the assessment marks and the record of class work (topics covered), separately for each course handled by the course coordinator. This should be submitted to the HOD periodically (at least two times in a semester) for checking the syllabus coverage and the records of assessment marks and attendance. The HOD will affix his/her signature and date after due verification. At the end of the semester, the record should be verified by the HOD who shall keep this document after the

approval from the Principal for five years. The records of attendance and assessment of both current and previous semesters should be available for inspection whenever required.

8.1 Assessment for Theory Courses Including Mandatory Courses

For Theory Courses including mandatory courses out of 100 marks, the maximum marks for Continuous Assessment is fixed as 40 and the End Semester Examination carries 60 marks.

The End Semester Examination for theory courses including mandatory courses will be of 3 hours duration and shall normally be conducted for a maximum of 100 marks during the Odd and Even Semesters. Every student should appear for the end semester examination for all the courses excluding the courses for which only continuous assessment is recommended.

A minimum of two tests would be conducted in a day (in the case of tests and they would be of two hours duration each) students will not have regular classes on the scheduled day of these tests. In case a student misses the assessment due to medical reasons (hospitalization / accident / specific illness) or due to participation in the College / University / State / National / International level Sports events with prior permission from the HOD, a Reassessment may be given at the end of the semester after getting approval from the HOD through the Course Coordinator concerned.

To arrive the Continuous Assessment Marks, the following guidelines should be followed.

Table 5 – Theory Courses: Continuous Assessment Marks

Assessment I (100 Marks)		Assessment II (100 Marks)		Total Continuous Assessment Marks
Individual Assignment/ Case Study/ Seminar/ Engineering Project and Community Service	Written Test	Individual Assignment/ Case Study/ Seminar/ Engineering Project and Community Service	Written Test	
40	60	40	60	200*

**The weighted average shall be converted into 40 marks for Continuous Assessment.*

A minimum of two Continuous assessments will be conducted as a part of continuous assessment during the semester by the respective department. Each Continuous assessment is to be conducted for 100 marks and will have to be distributed in two parts viz., Individual Assignment/Case study/Seminar/ Engineering Project and Community Service and Test with each having a weightage of 40% and 60% respectively. The tests shall be in written mode. The total Continuous assessment marks of 200 shall be converted into a maximum of 40 marks and rounded to the nearest integer.

8.2 Assessment for Practical Courses

For practical including virtual practical Courses, out of 100 marks, the maximum marks for Continuous Assessment is fixed as 60 and the End Semester Examination carries 40 marks.

Every practical exercise / experiment shall be evaluated (as per the rubrics approved by the class committee) based on conduct of experiment / exercise and records. There shall be at least one model test. The criteria for arriving at the Continuous Assessment marks of 60 is as follows:

Table 6 – Practical Courses: Continuous Assessment Marks

Continuous Assessment (100 Marks)*	
Evaluation of Laboratory Observation, Record	Test
75	25

**Continuous Assessment marks shall be converted into 60 marks*

The criteria for arriving the evaluation of lab observation, record marks of 75 shall be fixed based on the rubrics approved by the class committee.

The End Semester examinations for practical courses shall be of 3 hours duration and normally be conducted for a maximum of 100 marks during the odd and Even Semesters.

8.3 Assessment for Theory Courses with Practical Component

Weightage of Continuous Assessment and end semester examination marks will be 50% each. The distribution of marks for the theory and laboratory components in the Continuous Assessment and end semester examination for different types of courses are provided in the table 7.

Table 7 – Theory Courses with Practical Component: Continuous Assessment Marks

L	T	P	C	CONTINUOUS ASSESSMENT		END SEMESTER EXAMINATION
				ASSESSMENT 1	ASSESSMENT 2	
1	0	4	3	Laboratory (25%)	Theory (25%)	Laboratory only (50%)
1	0	2	2	Laboratory (25%)	Theory (25%)	Laboratory only (50%)
2	0	2	3	Theory (25%)	Laboratory (25%)	Theory (25%) Laboratory (25%)
3	0	2	4	Theory (25%)	Laboratory (25%)	Theory (35%) Laboratory (15%)
2	0	4	4	Theory (25%)	Laboratory (25%)	Theory (15%) Laboratory (35%)

The procedure for the conduct of Continuous Assessment for theory and laboratory components shall be as per the clause 8.1 and 8.2 respectively.

The weighted average shall be converted into 50 marks for Continuous Assessment.

8.4 Assessment for Project Work

The Project work such as Engineering Project and Community Service and capstone project shall be carried out under the supervision of a “qualified teacher” in the department concerned.

The students who completed their final semester courses (except project work) in advance, shall be permitted to carry out their final semester Project Work for six months in an industry/research organization on the recommendations of the HOD. In such cases the approval should be obtained from the industry concerned, the project work shall be jointly guided by a supervisor of the department and an expert as joint supervisor from the respective organization. The student shall be instructed to meet the supervisor periodically and to attend the review committee meetings and shall submit attendance particulars from the joint supervisor for evaluating the progress.

For Project Work, out of 100 marks, the maximum marks for Continuous Assessment is fixed as 60 and the End Semester Examination (Project Report evaluation and Viva-Voce examination) carries 40 marks. Project work may be assigned to a single student or a group of students (not exceeding 4).

There shall be three reviews during the semester. The student shall make presentation on the progress made by him / her before the “Project Review Committee”. The total marks obtained in the three reviews shall be reduced for 60 marks and rounded to the nearest integer. The HOD shall constitute a “Project Review Committee” for each Programme. There shall be a minimum of three members in the Review Committee. The Project Guide (Supervisor) will be one of the members of the Review Committee.

The student(s) is expected to submit the Project Report on or before the notified date. The End Semester Examination for Project Work shall consist of evaluation of the final Project Report submitted by the student(s) of the Project group and viva-voce examination by an external examiner and internal examiner.

The project report shall carry a maximum of 20 marks. The project report shall be submitted as per the approved guidelines as given by the COE. Same marks shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 20 marks. Marks are awarded to each student of the project group is based on the individual performance in the viva-voce examination.

The Continuous Assessment and End Semester Examinations marks for Project Work and the Viva-Voce Examination (including Engineering Projects in Community Service/ Capstone Project/ Any other Project Work) will be distributed as indicated below.

Table 8 – Project Work: Continuous Assessment and End Semester Examination Marks

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

- 8.4.1** If the Project Report is not submitted on or before the specified date, the student is deemed to have failed in the Project Work. The failed student(s) shall register for the same in the subsequent semester

and repeat the Project Work.

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 or the student has submitted the project report but did not appear for the viva-voce examination, it will be considered as fail in the Project Work and the student shall re-register for the same in the subsequent semester.

- 8.4.2** The students who completed their final semester courses (except project work) in advance, shall be permitted to carry out their final semester Project Work for six months in an industry/research organization.ail in the Project Work and the student shall re-register for the same in the subsequent semester.

8.5 Interdisciplinary Project

For the final year Engineering Project and Community Service / capstone project, students may be allowed to do interdisciplinary project. The interdisciplinary project team consists of 4 members in a Team, consisting 2 students from 2 different branches or 4 students from same branch. First Project Guide shall be allotted from parent department and the second project guide shall be allotted from the respective domain (other department). The continuous Assessment of the project will be carried out by the Interdisciplinary Project Review committee by the respective departments. The Project Reviews, Continuous Assessment Marks and End semester examination marks will be same as the Regular Project. Interdisciplinary Project Review Committee will be constituted by the vice principal and approved by the principal.

Table 9 – Interdisciplinary Project: Review Committee Constitution

Department X	Project Guide + one faculty nominated by the HOD
Department Y	Project Guide + one faculty nominated by the HOD

The weightage for the project guides and project review committee members to award Continuous Assessment marks is indicated below.

Table 10 – Interdisciplinary Project: Continuous Assessment Marks

Project Guide : 1	Project Guide : 2	Member : 1	Member : 2
30%	30%	20%	20%

The End Semester Examinations marks will be distributed as indicated below.

Table 11 – Interdisciplinary Project: End Semester Examinations Marks

Report Evaluation (20 Marks)		Viva (20 Marks)			
External Examiner: 1	External Examiner: 2	External Examiner: 1	External Examiner: 2	Internal Examiner: 1	Internal Examiner: 2
10 Marks	10 Marks	05 Marks	05 Marks	05 Marks	05 Marks

Internal and External Examiners are from the two different departments (X & Y) of the students.

8.5.1 Interdisciplinary Project: Students from more than two branches

- The team of Interdisciplinary project shall consist of maximum of 4 members, which can accommodate students from 2 or more number of branches.
- Project Guide for students of a particular branch shall be allotted from the respective branch of the student(s); more than one project guide can be allotted to one Interdisciplinary project.
- The number of project reviews, Attendance requirements, procedure for the award of Continuous Assessment marks and end semester examinations marks will be the same as regular project.

- iv) Interdisciplinary projects review committee shall be jointly constituted by the respective HOD's.

Constitution of Interdisciplinary Project review committee is as follows :

- Dept 1 : Project guide of the department of the student(s) + One faculty nominated by the HOD concerned
- Dept 2 : Project guide of the department of the student(s) + One faculty nominated by the HOD concerned.
- :
- :
- Dept N : Project guide of the department of the student(s) + One faculty nominated by the HOD concerned

The weightage of Continuous Assessment marks for the project guide and panel members are as follows :

Project Guide of the respective student	Member 1	Member 2	...	Member N
25%	$\left\{ \frac{\text{Remaining 75 \% of the Continuous Assessment marks}}{\text{No. of Members}} \right\}^*$			

Note : * Each member will equally contribute to the remaining 75 % of the marks.

The Internal and External Examiners for the end semester examinations will be from the department of the student(s) concerned .

8.6 Assessment for Industrial Training /Practical Training /Internship

The Industrial training /Practical Training /Internship shall carry 100 marks and shall be evaluated through Continuous Assessment only. At the end of Industrial training /Practical Training /Internship, the student shall submit a detailed report including attendance certificate and completion certificate from the organization concerned. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three-member Departmental Consultative Committee constituted by the HOD consisting of Programme Coordinator, Faculty Advisor concerned and Senior Faculty. The evaluation report duly signed by the departmental consultative committee and HOD shall be submitted to the office of the COE.w

8.7 Assessment for other Employability Enhancement Courses

The Seminar / Case Study shall carry 100 marks and shall be evaluated through Continuous Assessment only. Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. A three member committee appointed by the Head of the Department, consisting of the course coordinator and two experts from the Department, will evaluate the seminar and at the end of the semester, the marks shall be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper (40%), presentation (40%) and response to the questions asked during presentation (20%).

8.7.1 Assessment of Employability Enhancement Skill based courses offered under Naan Mudhalvan Scheme:

These courses shall carry 100 marks and shall be evaluated through Continuous assessment and End semester examinations. The weightage for continuous assessment is 40 marks and the end semester examination is 60 marks. The continuous assessment marks shall be awarded by the course Co-ordinator and the Industry Mentor as per the rubrics approved by the Department

Consultative Committee. The approval of the course content and the rubrics for continuous assessment and end semester examinations, by the Board of Studies is mandatory for the credit transfer of these course to the Elective Course(s).

The candidate has to earn minimum of 75% attendance and satisfy the attendance requirements as per the clause 7, failing which the registration for the course(s) will be cancelled. The grade for attendance is applicable as per the clause 12.2. The end semester examinations will be of 3 hours duration and shall normally be conducted for a maximum of 100 marks (as per the rubrics approved by the Department Consultative Committee) by the Internal and external examiner appointed by the Controller of Examinations.

If the student failed to secure “Pass” in the course (Vide Class 11), the registration of the course will be cancelled and the course shall not be printed on the grade sheet. The passing requirements as per the ‘clause 11’ and the award of letter grade as per the clause 12’ are applicable.

8.8 Assessment for Value Added Courses (1/2/3 Credits) other than Industrial Training/ Practical Training /Internship/ Summer Projects/ Seminars/ Professional Practices/ Case Study

The Value Added Courses shall carry 100 marks and shall be evaluated through Continuous Assessments only. Two assessments shall be conducted during the Semester by the department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded off to the nearest integer. The HOD may identify a faculty member as Coordinator for the Course. The Departmental Consultative committee consisting of the HOD, staff handling the course, Programme Coordinator and a Senior Faculty member nominated by the HOD shall monitor the evaluation process.

The B.E. /B.Tech. candidates who enrolled for value added courses (1/2/3 credits), have to earn minimum of 75% attendance, failing which the registration for courses will be cancelled. Also, the students who failed to secure ‘PASS’ in value added course, the registration of the course will be cancelled and the course shall not be printed on the grade sheet.

If the SWAYAM/NPTEL course is offered as a value added course subject to the approval of BOS concerned, the course shall carry 100 marks and the marks awarded by the SWAYAM/NPTEL shall be directly considered for grading of the course. The online courses other than SWAYAM/NPTEL courses can also be offered as value added courses. In this case, course should be approved by the DCC (consists of the HOD, Programme Coordinator, Senior Faculty member and the department SWAYAM coordinator). No grades shall be awarded for the attendance in the grade sheet and attendance requirement as mentioned in Clause 7 of 2022 Regulations is not applicable.

8.9 Assessment for SWAYAM/NPTEL Courses

The students may be permitted to credit online courses which are offered through SWAYAM/NPTEL platform with the approval of Board of Studies concerned (vide Clause 4.8 and 8.7). The course shall carry 100 marks and the marks awarded by the SWAYAM/NPTEL shall be directly considered for grading of the course. No grades shall be awarded for the attendance in the grade sheet for the online course. The attendance requirement as mentioned in Clauses 7 of Regulations 2022 is not applicable for the SWAYAM/NPTEL course.

8.9.1. Award of grade for SWAYAM / NPTEL courses

Table 12 : Duration of the course and number of credits

Sl. No	No of Weeks	No. of Credits
1	4	1
2	8	2
3	12	3
4	16	4

Table 13 : Award of letter grades for the marks scored

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

8.10 Research Publication

The student can register for the Research Publication as a value added course of 2 credits with the approval of BOS concerned. A Maximum of two students can form a team under the guidance of a faculty member and complete the publication in SCI/SCI expanded/SCOPUS indexed/UGC Care list. Grade for the publication will be awarded as mentioned in table 14. The students can register for credit transfer of the research publication between fifth and eighth semester. The research publication completed in ODD/EVEN semester during the course of study is eligible for including in the grade sheet in the immediate next EVEN/ODD by registering it.

Table 14 – Research Publication: Award of Letter Grade

Sl.No	Category of Journal	Grade
1	One Research Publication in SCI/SCI-Expanded Journal	O
2	One Research Publication in SCOPUS indexed Journal	A+
3	One Research Publication in UGC Care list Journal	A

8.11 Internal marks approved by the Head of the Institution shall be displayed by the respective HODs within 5 days from the last working day.

8.12 Conduct of Academic Audit

Institution shall strive for a better performance of the students by conducting the internal assessments as mentioned in Clause 8.

In order to ensure the above, Academic Audit is to be done for every course taught during the semester. For the internal assessments conducted for each course as per details provided in Clause 8, the academic records shall be maintained in the form of documentation for the individual assignments / case study report / report of Engineering Project and Community Service submitted by each student and assessment test question paper and answer script. For laboratory courses students' record shall be maintained. Further, the attendance of all students shall be maintained as a record.

The Head of the Institution shall arrange to conduct the Academic audit for every course in a semester by forming the respective committees.

9 PROCEDURE FOR COMPLETING THE PROGRAMME

- i. A candidate who has for some reason discontinued the programme can join the programme of study of any semester only at the time of its normal commencement in the institution for regular students upon satisfying all the following conditions:
 - a. He / she should have completed the programme of study of the previous semesters.
 - b. He / she should be eligible to register for the examinations and satisfy rule 9(iii)
 - c. He / she should have registered for all the examinations of the previous semesters.
- ii. A candidate will be permitted to proceed from one semester to the next higher semester only if he / she has satisfied the regulation for eligibility to appear for the End-Semester examination in the semester concerned, subject to the condition that the candidate should register for all the arrear courses of lower semesters along with the current semester courses.
- iii. A candidate should have completed the B.E/B.Tech. Degree Programme with a period of SEVEN consecutive academic years (14 semesters - including authorized break of study of one year) from the date of admission to the Programme, even if the candidate discontinues and rejoins subsequently, to be eligible for the award of the degree. The minimum and maximum period for completion of the U.G. Programmes are given below:

Table 15 – Duration of the Programme

Programme	Min. No. of Semesters	Max. No. of Semesters
B.E / B.Tech	8	14

10 REQUIREMENTS FOR APPEARING FOR SEMESTER EXAMINATION

A candidate shall normally be permitted to appear for the semester examination of the current semester (vide clause 6) if he/she has satisfied the semester completion requirements (vide clause 7) and has registered for examination in all courses of that semester. Registration is mandatory for current semester examinations as well as arrears examinations failing which the candidate will not be permitted to move to the higher semester.

PASSING REQUIREMENTS

11

- 11.1 A student who secures not less than 50% of total marks prescribed for the course [Continuous Assessment + End semester Examinations] with a minimum of 45% of the marks prescribed for the end-semester Examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for theory, theory with practical component and practical courses (including project work).
- 11.2 If a student fails to secure a pass in a theory course / theory with practical component / practical course (except electives), the student shall register and appear only for the end semester examination in the subsequent semester. In such case, the Continuous assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the third attempt (First attempt + Two arrear attempts) onwards if a student fails to obtain pass marks (Continuous Assessment + End Semester Examination), then 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.

- 11.3** If the course, in which the student has failed, is a Professional Elective or Open Elective course, the student may be permitted to register for the same or any other elective course in the subsequent semesters.

If any other Professional Elective or Open Elective course is opted by the student, the previous registration is cancelled and henceforth it is to be considered as a new Professional Elective or Open Elective course. The student has to register and attend the classes, earn the continuous assessment marks, fulfil the attendance requirements as per clause 7 and appear for the end semester examination.

- 11.4** If a student fails to secure a pass in project work, the student shall register for the course in the subsequent semester/when offered next and repeat the course (vide clause 6.9.3).
- 11.5** The passing requirement for the courses which are assessed only through purely internal assessments (EEC courses except Project Work and laboratory), is 50% of the internal assessment (continuous assessment) marks only. If a student fails to secure pass in the courses, the student shall register for the course in the subsequent semester/ when offered next and complete the continuous assessments till he/she attains a pass. Attendance requirement as per clause 7 is not applicable for the subsequent attempts. In such case, the grades for the attendance shall be awarded based on the attendance obtained by the student in the first registration.

11.6 Valued Answer Script review by the students

All the students are allowed to review their valued answer scripts with the faculty in-charge of the course on the specified date (usually the reopening day). Any discrepancies in the valuation can immediately be brought to the notice of the Controller of Examinations.

11.7 Revaluation

A student can apply for revaluation in a theory course by the student on payment of a prescribed fee along with prescribed application to the COE through the HOD within the stipulated time period as intimated by the COE. The COE will arrange for the revaluation and the following procedure is followed in awarding Grade Points after revaluation:

- i. If there is a change from fail to pass for a Candidate in a Course, Grade Point is awarded as per the relative grade applicable.
- ii. If a passed candidate in a course obtains more marks after revaluation, Revised Grading is used only when the candidate gets Higher Grade, otherwise no change in the grade awarded before the revaluation.

The results will be intimated to the student concerned through the HOD. Revaluation is not permitted for practical course, practical component of theory with practical component courses and project work.

11.8 Photocopy

Photo Copies of answer script for theory subjects can be obtained from the office of the Controller of Examinations on payment of a prescribed fee specified for this purpose through proper application.

11.9 Challenging the Revaluation

Challenging the revaluation is permitted for those students who have applied for photocopy and revaluation of answer script. The copy of the answer script is to be valued by a competent authority and the valued script should be submitted to the office of the COE along with prescribed fee for

challenging the revaluation within 2 working days after the declaration of the Re-valuation results.

12 AWARD OF LETTER GRADES

- 12.1 The award of letter grades 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 (vide clause 11). For those students who have not passed the examination, Reappearance (U) shall be awarded as shown in the below Table 16.

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 considered for relative grading. The evolved relative grading method normalizes the results data using the BOX-COX transformation method and computes the grade range for each course separately and awards the grade to each student. 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 30 then the absolute grading shall be followed with the grade range as specified below.

Table 16 – Letter Grades and Range of Marks

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

For Practical Courses and Project Work absolute grading method is to be followed.

The performance of a student shall be reported using letter grades, each carrying certain points as detailed below:

Table 17 – Letter Grades and Grade Points

LETTER GRADE	GRADE POINTS	RESULT
O (Outstanding)	10	PASS
A+ (Excellent)	9	
A (Very Good)	8	
B+ (Good)	7	
B (Average)	6	
C (Satisfactory)	5	
U (Re-appearance)	0	RA (Re-appearance)
SA (Shortage of Attendance)	-	RC (Repeat Course)
WD (Withdrawal)	-	EA (Extended Appearance)
AB (Absent)	0	RA (Re-appearance)

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: “O”, “A+”, “A”, “B+”, “B”, “C”.

‘SA’ denotes shortage of attendance and hence prevented from writing the end semester examinations. ‘SA’ will figure both in the Grade Sheet as well as in the Result Sheet.

“U” denotes that the student has failed to pass in that course. “WD” denotes withdrawal from the exam for the particular course. The grades U and WD 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.

If the grade U/AB is given to the courses which are evaluated through continuous assessment and end semester examinations, is not required to satisfy the attendance requirements, but has to appear for

the end semester examination and fulfil the passing requirements to earn a pass in the respective courses.

If the grade U/AB is given to the courses which are evaluated only through Continuous assessment, the student shall register for the course again in the subsequent semester, fulfill the passing requirements to earn pass in the course. However, attendance requirement need not be satisfied (not applicable for Value added courses).

If the grade U is given to Project work, the course has to be registered again and attendance requirement (vide clause 7) should be satisfied.

12.2 Award of letter grades system for attendance

Letter Grades are awarded for the attendance earned by the student for the individual courses as per table 18.

Table 18 – Attendance Grades and Range

Range of attendance %	95 and above	85 - 94	75-84	< 75
Letter Grade	VG	G	S	M
	Very Good	Good	Satisfactory	Moderately Satisfactory

13 GPA AND CGPA CALCULATION

13.1 The Principal & Chairman of the Academic Council shall call for a Result Passing Board Members meeting after the end-semester examinations, to pass and publish the results. After results are declared, grade sheets will be issued to each student which will contain the following details:

- the list of courses registered during the semester and the grades scored.
- the Grade Point Average (GPA) for the semester and
- the Cumulative Grade Point Average (CGPA) of all courses registered from first semester onwards.

During each Semester, the list of courses registered and the grades scored in each course (excluding value added courses) are used to compute the Grade Point Average (GPA). GPA is the ratio of the sum of the products of the number of credits of courses registered and the grade points corresponding to the grades scored in those Courses, taken for all the Courses (excluding value added courses), to the sum of the number of credits of all the courses in the semester. RA grades will be excluded for calculating GPA and CGPA.

$$GPA = \frac{\sum_{i=1}^n c_i GP_i}{\sum_{i=1}^n c_i}$$

Where,

- c_i - is the Credits assigned to the Course
 GP_i - is the grade point corresponding to the letter grade obtained for each Course
 n - is number of all Courses registered during the particular Semester in the case of GPA and during all the Semesters in the case of CGPA.

CGPA will be calculated in a similar manner, considering all the courses registered from first Semester.

13.2 The credits earned through Value Added Courses shall not be considered for calculating GPA and CGPA.

13.3 Grade Point to Percentage Conversion

The multiplication factor 10 is used for converting CGPA to the corresponding marks in percentage.

14 ELIGIBILITY FOR THE AWARD OF DEGREE

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

(i) Successfully gained the required number of total credits as specified in the Curriculum corresponding to the programme of study within the stipulated time. Total minimum credits needed for each branch of study is given below.

Table 19 – Details of Total Minimum Credits

SL. NO.	BRANCH	TOTAL MINIMUM CREDITS NEEDED FOR SUCCESSFUL COMPLETION
1	B.E. CIVIL ENGINEERING	169
2	B.E. MECHANICAL ENGINEERING	169
3	B.E. ELECTRICAL AND ELECTRONICS ENGINEERING	165
4	B.E. ELECTRONICS AND COMMUNICATION ENGINEERING	169
5	B.E. PRODUCTION ENGINEERING	167
6	B.E. ELECTRONICS AND INSTRUMENTATION ENGINEERING	169
7	B.E. COMPUTER SCIENCE AND ENGINEERING	167
8	B.Tech. INFORMATION TECHNOLOGY	167
9	B.Tech. INDUSTRIAL BIOTECHNOLOGY	169

(ii) Successfully completed the Course requirements, appeared for the End-Semester Examinations and passed all the courses prescribed in all the 8 Semesters within a maximum period of 7 years reckoned from the commencement of the first Semester to which the candidate was admitted.

(iii) Successfully passed any additional courses prescribed by the Board of studies whenever readmitted under Regulations 2022 from other regulations (vide clause 16.3)

(iv) No disciplinary action pending against the student

(v) Award of Degree must have been approved by the Anna University.

14.2 Classification of the Degree Awarded

14.2.1 First Class with Distinction

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits above the	CGP A (v)	Pass in (vi)	Break of study (vii)	Prevention due to lack of	Withdrawal from writing end
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			requirement of curriculum (iv)				attendance (viii)	semester examination (ix)
B.E./B.Tech. (Regular)	4 years	5 years	-	8.50	First appearance	One year authorized break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech. (Lateral Entry)	3 years	4 years	-	8.50	First appearance	One year authorized break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech. (Honours)	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	8.50	First appearance	One year authorized 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	8.50	First appearance	One year authorized break of study include in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt

14.2.2 First Class

Degree (i)	Duration of Programme (ii)	Duration permitted (iii)	Addition al credits (iv)	CGP A (v)	Pass in (vi)	Break of Study (vii)	Prevention due to lack of attendance (viii)	Withdrawal from writing examination (ix)
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(iii)	Included in the Duration permitted (iii)	-
B.E./B.Tech. (Honours)	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 appearance	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) w	18 credits from more than one verticals of the other programme	6.50	-	One year authorised break of study Included in the Duration permitted(iii)	Included in the Duration permitted (iii)	-

14.2.3 Second Class

All other candidates (not covered in clauses 14.2.1 and 14.2.2) who qualify for the award of the degree (vide Clause 14.1) shall be declared to have passed the examination in **SECOND CLASS**.

14.2.4 Student earned additional 18 credits as per Clause 3.2.1 but does not satisfy the conditions mentioned in 14.2.1 or 14.2.2 shall not be awarded B.E./B.Tech. Honours. In such cases the grade sheet will show the additional courses studied and those courses shall not be considered for CGPA computation. In such case, if the student becomes eligible for First Class with distinction/ First class, while computing CGPA without taking into account the additional course studied, the student shall be awarded B.E./B.Tech. in First class with distinction / First Class only.

14.2.5 If a student decides not to opt for Minor, after completing certain number of courses, the additional courses studied shall be considered instead of Open Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of open electives required as per the curriculum, the courses with higher grades shall be considered for calculation of CGPA. Remaining courses shall be printed in the grade sheet, however, they will not be considered for calculation of CGPA.

14.2.6 A student who is absent in End Semester Examination in a Course / Project work after having registered and paid the examination fee for the same shall be considered to have appeared in that Examination (except approved withdrawal from End Semester Examinations as per Clause 15) for the purpose of Classification.

15 PROVISION FOR WITHDRAWAL FROM EXAMINATION

15.1 A student may, for valid reasons, (medically unfit / unexpected family situations / Sports approved by the Chairman) be granted permission to withdraw from appearing for the End Semester Examination in any Course or Courses in **ANY ONE** of the Semester examinations during the entire duration of the Degree Programme. The application shall be sent to the Principal and Chairman through HOD with required documents for approval.

- 15.2 Withdrawal application shall be valid only if the student is eligible to write the Examination (Clause 7) and if it is made within TEN working days before the commencement of the End Semester Examination in that Course or Courses and also recommended by the HOD.
- 15.3 Notwithstanding the requirement of mandatory TEN working days notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 15.4 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 30/60 days after the declaration of results for Project Work and the same shall not be considered as reappearance.
- 15.5 Withdrawal shall not be considered as an appearance for deciding the eligibility of a student for First Class with Distinction.
- 15.6 Withdrawal is permitted for the End Semester Examinations in the final semester as per Clause 14.2.1.

16 BREAK OF STUDY FROM A PROGRAMME

- 16.1 A student is permitted to go on break of study for a single break of one year only.
- 16.2 The student can apply for break of study in advance, in any case, not later than the last date of the first assessment period. The application duly filled by the student shall be submitted through the HOD for the approval of the Principal & Chairman.
- 16.3 The students permitted to rejoin the Programme after break of study / readmission due to lack of attendance, shall be governed by the curriculum and Regulations in force at the time of rejoining. The students rejoining in new regulations shall apply in the prescribed format through HOD at the beginning of the readmitted semester itself for prescribing additional/equivalent courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.
- 16.4 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 5.1 irrespective of the period of break of study in order that the student may be eligible for the award of the Degree (vide Clause 14).
- 16.5 The student is permitted to rejoin the programme on the re-opening day of the semester after the approved break of study duration, failing which the student shall be permitted to continue the programme only if the approval is obtained from the Director of Technical Education / University through the Principal before the end of the Semester in which the student has taken break of study.
- 16.6 If a student has not reported to the department for a period of two consecutive Semesters without any intimation, the name of the student shall be deleted permanently from the college enrollment.
- 16.7 No fee is applicable to the students during Break of Study period
- 16.8 During the break of study period, the student may optionally write the arrear examinations, if any, by paying prescribed examination fee.

17 RANK OF A STUDENT

A candidate who qualifies for the degree by passing the examination in all courses of the

entire Programme in first First appearance within a period of **Four or Five** consecutive academic years applicable for the students joined after permitted Break of Study from the date of admission to the Programme can be given his/her position in the class as rank. The Rank is determined from IIIrd semester to VIIIth semester end semester examination CGPA. **Students transferred from other institutions to GCT in IIIrd Semester and Lateral entry students are eligible for rank.** Students transferred from other institutions beyond IIIrd Semester to GCT *and students with history of arrears during the entire programme* are not eligible for rank.

18 PROCEDURE FOR USING SCRIBE

If a candidate is physically handicapped (in case of accidents / ill health) at the time of examination, he / she may be permitted to use a scribe to write the examination. The compensatory (additional) time should be one hour for three hour duration of examination. The Scribe shall be a non-engineering student / graduate.

19 DISCIPLINE

19.1 Every student is required to observe disciplined and decorous behaviour both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the University / College. The Head of the Institution shall constitute a disciplinary committee consisting of the Head of the Institution, Two Heads of Department of which one should be from the faculty of the student, to enquire into acts of indiscipline and notify the University about the disciplinary action recommended for approval. 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. In this regard, the member will be nominated by the University on getting information from the Head of the Institution.

19.2 If a student indulges in malpractice in any of the Examinations, the student shall be liable for punitive action as prescribed by the University from time to time.

20 REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The Institution may from time to time revise, amend or change the Regulations, Curriculum, Syllabus and Scheme of Examinations through the Academic Council.