



ADHIYAMAAN COLLEGE OF ENGINEERING

[An Autonomous Institution Affiliated to Anna University, Chennai]

[Accredited by NAAC]

Dr.M.G.R NAGAR, HOSUR, KRISHNAGIRI (DT) – 635 130, TAMILNADU, INDIA

CHOICE BASED CREDIT SYSTEM

REGULATIONS 2022

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

(For the students admitted to B.E. / B.Tech. Programme at various
Departments from the Academic year 2022 - 2023 onwards)

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In this Regulation, unless the context otherwise specifies:

- I. “**Programme**” means Degree Programme (i.e) B.E. / B.Tech. Degree Programme.
- II. “**Discipline**” means Branch or Specialization of B.E. / B.Tech. Degree Programme like Civil Engineering, Bio Technology, etc.,
- III. “**Choice Based Credit System**” means providing choice for students to select courses from the prescribed course categories (core, elective, value-based, skill development courses), in the preferred semester complying prerequisites and based on their learning aptitudes.
- IV. “**Course**” means a Theory or Practical subject that is normally studied in a semester, like Mathematics, Physics, Engineering Graphics, etc.,
- V. “**Dean (Academics)**” means the authority of the college who is responsible for all academic activities for the implementation of relevant rules and regulations.
- VI. “**Controller of Examinations (CoE)**” means the Authority of the college who is responsible for all activities of the Semester End Examinations of the Departments.
- VII. “**Head of the Institution**” means the Principal of the campus.
- VIII. “**Head of the Department (HoD)**” means Head of the Department concerned.
- IX. “**BoS**” means Board of Studies.

- X. “DoTE” means Directorate of Technical Education, Chennai.
- XI. “University” means Anna University, Chennai.
- XII. “CIO” means Chief Incubation Officer.

2. ADMISSION PROCEDURE

Candidates seeking admission to the B.E. / B.Tech. Degree Programme will be required to satisfy the conditions of the admission thereto prescribed by the University and Government of Tamilnadu.

3. PROGRAMMES OFFERED

A student may be offered admission to any one of the programme of study approved by the University. Details of programmes currently being offered by the Institution are listed in **Annexure – I.**

4. CURRICULUM FRAMEWORK

4.1 Preamble

4.1.1 Curriculum framework is important in setting the right direction for a degree programme as it takes into account the type and quantum of knowledge necessary to be acquired by a student to qualify for an award in his/her chosen programme.

4.1.2 Besides, this also helps in assigning the credits for each course, sequencing the courses, and finally arriving at the total number of courses to be studied, and the total number of credits to be earned by a student to fulfil the requirements for the award of the degree.

4.1.3 Each theory course shall consist of five units.

4.2 Programme Structure

Choice Based Credit System (CBCS) is followed in the program, in order to promote

- I. Student Centered Learning
- II. Students to learn courses of their choice
- III. Interdisciplinary Learning

Students have the choice of choosing their courses in various categories. Apart from this, student also have the option of choosing various courses under programme specialization, Minor/Honours degree.

The programme structure is designed in such a way that it facilitates the courses required to attain the expected knowledge, skills and attitude by the time of their graduation as per the needs of the stakeholders and Graduate Attributes of NBA, New Delhi. The programme structure consists of various course categories as explained below to cover the depth and breadth required for the programme and for the attainment of programme outcomes of the corresponding programme. The curriculum shall satisfy the programmes specific criteria

recommended by professional bodies of the respective programme. Courses shall be offered under various categories as explained below:

4.3 Categorization of Courses

Every B.E./B.Tech. Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

- i. **Humanities, Social Sciences and Management Courses (HSC)** include Professional English, Communication skills etc.
- ii. **Basic Sciences Courses (BSC)** include Mathematics, Physics, Chemistry, Biology, Environmental Science etc.
- iii. **Engineering Sciences Courses (ESC)** include Engineering Practices, Engineering Graphics, Basics of Civil / Mechanical / Electrical / Electronics / Instrumentation, Computer Engineering, etc.
- iv. **Professional Core Courses (PCC)** include the core courses relevant to the chosen specialization/branch.
- v. **Professional Elective Courses (PEC)** include the elective courses relevant to the chosen specialization/branch.
- vi. **Open Elective Courses (OEC)** include the courses offered by a branch to other branches, from the list specified in the respective curriculum of the B.E./B.Tech./B.Arch. programmes.
- vii. **Employability Enhancement Courses (EEC)** include Project Work, Internship, Seminar, Professional Practices, Case Study and Industrial/Practical Training etc.
- viii. **Audit Courses (AC) / Mandatory Courses (MC)** include the courses such as Constitution of India, Sangam literature etc.

4.4 Personality and Character Development (ACTIVITY POINT PROGRAMME)

All students may enroll, on admission, in any one of the personality and character development programmes (NSS/ YRC/ RRC/ Yoga/ Fine Arts/ Sports) and undergo training / attend a camp.

National Service Scheme (NSS) Training shall include classes on hygiene and health awareness, training in first-aid and physical fitness. While the training activities will normally be during weekends, the camp will normally be during vacation period.

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

Red Ribbon Club (RRC) will have activities related to social awareness in and around College / Institutions.

4.5 Number of Courses per Semester (Credit Based)

Each semester curriculum shall normally have a blend of courses not exceeding 6-10 courses except 8th semester (including Theory/Lab Embedded Theory/Employability Enhancement Skill based Courses and Laboratory courses) Plus Mandatory Course/ Audit Course.

4.6 Credit Assignment

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

Contact period per week	Credits
1 Lecture Period	1
1 Tutorial Period	1
2 Periods of Laboratory / EEC / Project work	1

4.7 Industrial Training / Internship with Credits

Duration	Credits
2 weeks*	1
4 weeks	2

*1 Week = 40 Internship Hours

4.7.1 The students have to undergo industrial training for a period as specified in the Curriculum during the summer / winter vacation after completion of 1st year.

4.7.2 A minimum of four weeks (at a stretch or split of two 2 weeks) Industrial training is compulsory for all UG programmes during their 4 (Regular) / 3 (Lateral Entry) years of study.

4.7.3 The students will take up internship at a Research organization / University/ Industry (after due approval from the HoD) for the period prescribed in the curriculum during the summer / winter vacation, in lieu of industrial training.

4.7.4 Attendance certificate mentioning the period of Industrial Training / Internship and signed by the competent authority, shall be submitted to the HoD and same shall be forwarded to the CoE for processing the results.

4.8 Industrial Visit

Every student is required to go for at least one industrial visit every year, starting from the second year of the programme. The HoD of respective department shall ensure that necessary arrangements are made in this regard.

4.9 Massive Open Online Courses (MOOC)

4.9.1 Students are permitted to register in reputed online course platforms (SWAYAM) for skill development, humanities, management, Design/ Research methodology/ entrepreneurship and any other Non-technical courses (which are provided with certificate after evaluation of the performance) with prior approval from HoD concerned.

4.9.2 Students are permitted to undergo two online courses, subject to a maximum of six credits, with the approval of the HoD, in lieu of Open Elective / Professional Elective courses.

4.9.3 A Committee consisting of HoD, Tutor and Senior Faculty member nominated by the HoD shall monitor to ensure that the student has not studied such courses and would not repeat it again as Professional Core/Professional Elective/Open Elective courses. Suitable

online courses shall be chosen from the SWAYAM platform.

4.10 Naan Mudhalvan Courses to be added as Professional Electives courses as per the Tamilnadu State Government Guidelines.

4.11 Mandatory Courses (MC) (Non Credit Courses) such as Environmental Science and Engineering, Indian Constitution, Gender Studies etc., have been included in the curriculum as per guidelines from AICTE / Anna University.

4.12 Employability Enhancement Skill based Courses

Employability Enhancement (Skill based) Course (One Course per Semester with a weightage of one credit).

As per Anna University Guidelines:

1st semester: English Laboratory

2nd semester: Communication Laboratory

3rd semester: Professional Development Programme

4th semester: Math Solver Software

5th to 7th semesters: Industry oriented embedded course using MoU with industries.

4.13 Value Added Courses (VAC)

4.13.1 The students may optionally undergo Value Added Courses (VAC) over and above the topics covered in the curriculum to obtain practical and industry specific knowledge. The credits earned through the VAC shall be over and above the total credit requirements prescribed in the curriculum. One / Two credit courses shall be offered by a department with the prior approval from the Head of the Institution.

4.13.2 The details of the syllabus, schedule and course coordinator may be sent to the Head of the Institution at least one month before the course is offered for approval. Students can take a Minimum of two value added course during the entire duration of the Programme.

4.13.3 These credits are not considered for CGPA calculation, however printed in the grade sheet.

4.14 Innovation driven prototype/Business models

The students (Max. four in a team) shall be awarded credits if they successfully come out with Innovation driven prototype/Business models at the DETI@ACE Technology Business Incubator (TBI). The prototype/Business models shall be certified by the HoD and CIO of DETI@ACE TBI, Based on the recommendation by the HoD, they will be exempted (up-to a maximum of two credits) from the mini project under Employability Enhancement Program category.

4.15 Start-up by the Student Inventors

Student(s) either as a single or team (Max. four in a team) successfully come-up with a start-up at DETI@ACE TBI, shall be awarded with credits. On submission of documents for the start - up, endorsement by CIO and the HoD where student(s) is (are) studying, the CIO may recommend to the HoD for the exemption of Main Project under Employability Enhancement Program category.

4.16 Medium of Instruction

The medium of instruction is English for all courses, examinations, seminar presentations and project / thesis / dissertation reports.

5. DURATION OF THE PROGRAMMES

5.1 A student after securing admission shall pursue B.E. / B.Tech. programme for a minimum period of 4 academic years (8 Semesters) and a maximum period of 7 years (14 Semesters) starting from the commencement of the first semester. For a student admitted in lateral entry mode, the minimum and maximum period of study shall be 3 academic years (6 semesters) and 6 years (12 semesters) respectively starting from the commencement of the third semester.

5.2 Each semester shall normally consist minimum of 90 working days. The HoD shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus, covering the full content of the syllabus for the course being taught.

6. COURSE ENROLLMENT AND REGISTRATION

6.1 Each student, on admission, shall be assigned to a Faculty Advisor / Tutor (vide clause 8), 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.

6.2 The enrollment for the courses of the semester II to VIII will commence during first week of the current semester. The student shall enroll for the courses with the guidance of the student's Faculty Advisor/Tutor. If the student wishes, the student may drop or add courses (vide clause 6.4) within ten working days after the commencement of the concerned semester and complete the registration process duly authorized by the Faculty Advisor/Tutor and HoD.

6.3 After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn continuous assessment marks and appear for the semester end examinations.

6.4 Flexibility to Change courses

6.4.1 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 the student wishes, then the student is permitted to earn more than the total number of credits prescribed in the curriculum of the student's programme.

6.4.2 On the recommendation / advice of the course instructor and Faculty adviser / Tutor, the student has the option to drop / change the course(s) within the stipulated period vide 6.2.

6.4.3 The student has to register for the project work in the VIII semester only.

6.5 Reappearance Registration

6.5.1 If a student fails in a theory/ practical/ project work course, registration for that course in the subsequent semester is compulsory.

6.5.2 If a student has not registered for examinations or prevented from writing Semester End examinations due to lack of attendance, the student has to rejoin the programme in the same semester during the next academic year with the prior approval of DoTE and University.

7. REQUIREMENTS FOR APPEARING FOR THE SEMESTER END EXAMINATION OF A COURSE

A student who has fulfilled the following conditions (vide clause 5.1 and 5.2) shall be deemed to have satisfied the attendance requirements for appearing for the semester end 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 If a student secures attendance between 65% and less than 75% in any course in the current semester, 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 Chairman, Sports Board and HoD concerned, the student shall be given exemption from the prescribed attendance requirement and the student shall be permitted to appear for the semester end examination of that course. In all such cases, the students should submit the required documents on joining after the absence to the HoD through the Faculty Advisor.

7.3 A student shall normally be permitted to appear for the semester end examination of the course if the student has satisfied the attendance requirements (vide Clause 7.1 – 7.2) and has registered for examinations of that semester by paying the prescribed Examination fee. However if a student fails to register for semester end examinations, will be treated as detained and has to rejoin as per clause 6.5.2.

8. FACULTY ADVISOR / TUTOR

To help the students in planning their courses of study and for general advice on the academic programme, the HoD of the students will attach a certain number of students to a faculty of the Department, who shall function as Faculty Advisor for those students throughout their period of study. The Faculty Advisor shall advise the students in registering and reappearance (Arrear) registering of courses, authorize the process, monitor their attendance, academic progress and counsel them periodically. If necessary, the Faculty Advisor may also discuss with or inform the parents about the progress / performance of the students concerned.

The responsibilities of the faculty advisor shall be:

- To inform the students about the various facilities and activities available to enhance the student's curricular and co-curricular activities.
- To guide student enrollment and registration of the courses.
- To authorize the final registration of the courses at the beginning of each semester.
- To monitor the academic and general performance of the students including attendance and to counsel them accordingly.
- To collect and maintain the academic and co-curricular records of the students.

9. ASSESSMENT PROCEDURES FOR AWARDING MARKS

9.1 Performance in each course of study shall be evaluated based on the maximum marks for Continuous Assessment is fixed as 40 for theory courses and 60 for laboratory courses and the Semester End Examination carries 60 marks for theory courses and 40 for laboratory courses. Seminars, Industrial visits/ Practical training/ In-plant training, Case Study etc., are evaluated by Continuous Assessment only. Every teacher is required to maintain an "Attendance and Assessment Record" for every semester which consists of attendance marked in each class work (topics covered), separately for each course handled by the faculty. This should be submitted to the HoD and the principal periodically the records of assessment marks and attendance. The HoD will affix his/her signature after due verification. At the end of the semester, the record should be verified by the HoD who shall keep this document in safe custody for annual academic audit.

9.2 Assessment of Courses

9.2.1. Continuous Assessment (CA)

THEORY COURSES

For all the theory courses, the continuous evaluation shall be for a maximum of 40 marks consisting of three unit tests, model examinations and two assignments / presentation.

Continuous Assessment	Weightage
Unit Tests	30
Model Examination	5
Assignments	5
TOTAL	40

It shall measure the knowledge of the students in understanding subject contents and levels as mentioned against the respective course outcomes, in cognitive learning domain, as per the revised Bloom's taxonomy.

LABORATORY COURSES

For all the laboratory courses, the continuous evaluation shall be for a maximum of 60 marks consisting of student's performance in each laboratory session and model test.

In each laboratory course, model laboratory test shall be conducted for 20 marks.

Continuous Assessment	Weightage
Lab Performance	25
Laboratory Record	15
Model Examination	20
TOTAL	60

PROJECT WORK

For project work, HoD shall constitute the Project Review Committee (PRC) consisting of two faculty members with diversified specializations and the project guide. Continuous evaluation for 40 marks shall be done as given in the table below.

Continuous Assessment	Weightage
Review-I	10
Review-II	15
Review-III	15
TOTAL	40

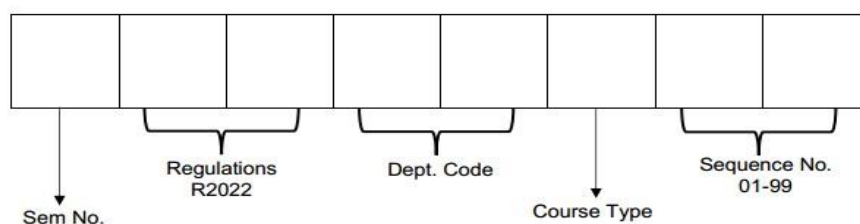
9.2.2. End Assessment (EA)

The Semester End Examinations for theory / practical courses will be of 3 hours duration unless otherwise specified and shall normally be conducted during November / December in the odd semester and during April / May in the even semester. Semester End Examination is mandatory requirement for passing the course and every student should appear for the examination for theory, laboratory courses and project work.

9.2.1 Scheme of Assessment

S. No	Course Type		Mark breakup												
			Continuous Assessment components									Semester End components			
			Unit Tests	Model Examination	Assignment	Lab Performance	Laboratory Record	Model Examination	Review 1	Review 2	Review 3	Written Exam	Practical Exam	Project Report and Viva-Voce	
1	Theory		30	5	5	-	-	-	-	-	-	60	-	-	
2	Lab		-	-	-	25	15	20	-	-	-	-	40	-	
3	Project		-	-	-	-	-	-	10	15	15	-	-	60	
4	Theory + Lab (Embedded /Integrated)		Theory	30	5	5	-	-	-	-	-	-	60	-	-
			Lab	-	-	-	25	15	20	-	-	-	-	40	-
5	Theory +Project		Theory	30	5	5	-	-	-	-	-	-	60	-	-
			Project	-	-	-	-	-	-	25	25	50	-	-	-
6	Theory + Lab + Project		Theory	30	5	5	-	-	-	-	-	-	60	-	-
			Lab	-	-	-	25	15	20	-	-	-	-	40	-
			Project	-	-	-	-	-	-	25	25	50	-	-	-
7	Lab + Project		Lab	-	-	-	25	15	20	-	-	-	-	40	-
			Project	-	-	-	-	-	-	-	25	25	50	-	-

9.2.2 Course Code Numbering Scheme:



Dept. Code

AE - Aeronautical Engineering
 BM - Biomedical Engineering
 CE - Civil Engineering
 CS - Computer Science and Engineering
 EC - Electronics and Communication Engineering
 EE - Electrical and Electronics Engineering
 ME - Mechanical Engineering
 BT - Biotechnology
 CH - Chemical Engineering
 IT - Information Technology

Course Type

T – Theory
 P – Practical
 I – Integrated / Embedded
 E – Elective
 O – Open Elective
 V – Value Added Course
 A – Audit Course
 M – Mandatory Course

9.3 ASSESSMENT OF PROJECT WORK

External Assessment for the project work will be based on Viva-Voce conducted by a panel consisting of internal examiner and external examiner appointed by the CoE.

9.3.1 If any candidate fails to submit the project report on or before the date specified by the department, he/she is deemed to have failed in the project work. The failed student(s) shall register for the same in the subsequent semester, when offered next, and repeat the project work again.

9.4 ASSESSMENT FOR VALUE ADDED COURSE

The HoD may identify a faculty member as coordinator for the course. A committee consisting of the HoD, staff handling the course, coordinator and a senior Faculty member nominated by the HoD shall monitor the evaluation process. The grades shall be assigned to the students by the above committee based on their relative performance and same to be forwarded to CoE office for further process.

9.5 ASSESSMENT FOR ONLINE COURSES

On successful completion of the course, student has to submit the digitally signed and verified certificate to the Head of the department and same will be forwarded to the CoE office. Based on the recommendations by the HoD and PAC (Programme Assessment Committee), the MOOC course will be included for calculation of CGPA.

9.6 ASSESSMENT FOR AUDIT COURSES

For the students who complete the Audit Course satisfying attendance requirement, the title of the Audit Course will be mentioned in the Grade Sheet. If the attendance requirement is not satisfied, it will not be shown in the Grade Sheet. The credits earned through the Audit Courses shall be over and above the total credit requirements prescribed in the curriculum. These credits are not considered for CGPA calculation, however printed in the grade sheet.

9.7 ASSESSMENT FOR MANDATORY COURSES

For the students who complete the Mandatory Course satisfying attendance requirement, the title of the Mandatory Course will be mentioned in the Grade Sheet. If the attendance requirement is not satisfied, it will not be shown in the Grade Sheet.

10. PASSING REQUIREMENTS

10.1 The Passing requirement for a student in a course is based on the analysis of the marks obtained both in Continuous Assessment (CA) and Semester End Examinations (EA). Student will be declared pass, if a candidate secures 50% of marks in the End Assessment (EA) Examination and 50% marks in total (CA+EA), in theory / practical courses.

If a student fails to secure a pass in a particular course, it is mandatory that he/she shall register and reappear for the examination in that course during the next semester; he/she should continue to register and reappear for the examination till he / she secures a pass. However, the Continuous Assessment marks (CA) obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts.

10.2 Photocopy and Revaluation

Revaluation is permitted for theory courses only.

Stage I:

- The student who wants to apply for revaluation, first, he/she has to apply for photocopy of answer script(s) by paying the prescribed fee.
- The student may approach any subject expert for review of the photocopy of answer script(s).

Stage II:

- Based on the assessment, the student can apply for the revaluation through proper application to the CoE.
- The CoE will conduct the revaluation as per the need and the results will be intimated to the student through department.

The student can apply for the revaluation of answer scripts for not exceeding 5 subjects at a time.

11. AWARD OF LETTER GRADES

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 as per Clause 10.1. 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 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 or equal to 30 then the fixed grading shall be followed with the grade range as specified below.

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

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

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

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”.

“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 Tabulated Mark Result. In both cases, the student has to appear for the End Semester Examinations.

If the grade U is given to **Theory Courses/ Laboratory Courses**, student has to appear for the semester end examination and fulfil the passing requirements to earn a pass in the respective course(s).

Upper Limit of Credits

- In a Semester, the number of credits are in a range of 20-24 (Semesters I-VII) and 10-16 (Semester VIII) for registration.
- However, a student can register for a **maximum of 40 credits** including arrears.
- The students are permitted to register by satisfying the above two conditions.
- Students having standing arrears must register for **remedial classes** and can register upto 5 courses and appear for all those arrear exams, **provided the maximum credit range per semester is not exceeded.**
- Remedial Classes will be conducted for 3 weeks duration.
- Minimum of 75% attendance in remedial classes is mandatory for attending the Arrear Exams.

12. GPA AND CGPA CALCULATION

12.1 During each semester, the list of courses registered and the grades scored in each course are used to compute the **Grade Point Average (GPA)**. GPA is the ratio of the sum of the product of the number of credits of passed courses registered and the grade points corresponding to the grades scored in those courses to the sum of the number of credits of all the passed courses in that semester.

$$GPA = \frac{\text{Sum of Weighted Grade points}}{\text{Total Credits}} = \sum \frac{(GPI) \times C_i}{C_i}$$

Where

weighted grade points in each course = Grade Points (GPI) multiplied by credits = (GPI) C_i

Cumulative Grade Point Average (CGPA) up to that point of time.

$$CGPA = \sum \frac{(GPI) \times C_i}{C_i}$$

where C_i is the credit for each course in each of the completed semesters at that stage and GPI is the grade point earned by the student for that course. The CGPA is rounded off to two decimals

12.2 The credits earned through vide clause 4.11, 4.12 and 4.13 shall not be considered for calculating GPA and CGPA.

12.3 Conversion of CGPA into Percentage of Marks
Percentage of Marks = CGPA X 10

12.4 Malpractice in Examinations

Students taking exams shall be prohibited from entering into the Examination Halls / Laboratories with any book or portion of book, manuscript, or any unauthorised written/ printed/ electronic content, communicating with or copying from each other or communicating with anyone outside the Examination Hall / Laboratories. Electronic gadgets, Programmable calculator and mobile phone shall not be permitted inside the Examination hall / Laboratories. However, any required code-books and data sheets / books as specified in the question paper will be supplied inside the Examination hall / laboratories by the office of the Controller of Examinations. The students are warned that any form of malpractice will be dealt with severely. If a student is involved in malpractice in examination and found guilty, the matter will be referred to the Malpractice Enquiry Committee. The committee will hold an enquiry and impose any of the following punishments:

- I. Debarring from registering up to a maximum of ensuing two semesters.
- II. Cancellation of all the subjects appeared in that semester.
- III. Cancellation of the particular subject in which malpractice has occurred.
- IV. Penalty of Rs 2000/- will be imposed in addition to any one of the above.

The decision of the Malpractice Enquiry Committee is final and binding.

13. Options for students in Four year UG Engineering & Technology Programme and Eligibility

In order to provide the flexibility, multidisciplinary and a holistic education, so that learners have the ability to choose their learning trajectories, programmes, and choose their own path, the following options for students in 4 year UG Engineering & Technology programmes are provided.

13.1 ELIGIBILITY FOR THE AWARD OF DEGREE

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 student's programme within the stipulated period.
- II. Successfully completed the course requirements appeared for the Semester End examinations and passed all the subjects prescribed in all the 8 semesters (6 Semesters for Lateral Entry) within a maximum period of 7 years (6 Years for Lateral Entry) reckoned from the commencement of the first semester (third semester for Lateral Entry) to which the candidate was admitted.
- III. Successfully passed the additional courses, prescribed by the BoS whenever readmitted / admitted through transfer, under prevailing regulations.
- IV. No disciplinary action pending against the student.

13.2 B.E. / B. Tech. (Hons) Specialization in the same discipline, B.E. / B.Tech. (Hons) and B.E. / B. Tech. Minor in other specialization.

13.2.1 B.E./B.Tech. Honours (specialization in the same discipline)

- a. The student should have earned additionally a minimum of 18 credits from a vertical of the same programme.
- b. Should have passed all the courses in the first attempt.
- c. Should have earned a minimum CGPA of 7.50.

13.2.2 B.E / B.Tech. Honours

- a. The students should have earned additional courses (minimum of 18 credits) from more than one vertical of the same programme.
- b. Should have passed all the courses in the first attempt.
- c. Should have earned a minimum CGPA of 7.50.

13.2.3 B.E./B.Tech. (Minor in other specialization)

1. The student should have earned additionally a minimum of 18 credits in any one of the Verticals of other B.E./B.Tech programmes or from any one of the following verticals.

VERTICAL I: FINTECH AND BLOCK CHAIN

VERTICAL II: ENTREPRENEURSHIP

VERTICAL III: PUBLIC ADMINISTRATION

VERTICAL IV: BUSINESS DATA ANALYTICS

VERTICAL V: ENVIRONMENT AND SUSTAINABILITY

2. Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits as approved by respective BoS.
3. B.E./ B. Tech. (Hons) Specialization in the same discipline, B.E / B.Tech. Honors and B.E./B.Tech. minor in other specialization degree will be optional for students.
4. For the categories 13.2.1 to 13.2.2, the students will be permitted to register the courses from V Semester onwards provided the marks earned by the students until III semester should be of CGPA 7.50 and above and cleared all the courses in the first attempt.
5. For the category 13.2.3, the students 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. If a student decides not to opt for Honours, after completing certain number of additional courses, the 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 mark sheet, however, they will not be considered for calculation of CGPA.
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 mark sheet, however, they will not be considered for calculation of CGPA.

13.3 Classification of Degree

13.3.1 First Class with Distinction

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits above the requirement of curriculum (iv)	GPA (v)	Pass in (vi)	Break of study (vii)	Prevention due to lack of attendance (viii)	Withdrawal from writing end semester examination (ix)
B.E./B.Tech. (Regular)	4 years	5 years	-	8.50	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. Lateral Entry	3 years	4 years	-	8.50	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. (Honours) Specialization in the same discipline	3/4/5 years (Lateral entry, Regular, Sandwich respectively)	4/5/6 years (Lateral entry, Regular, Sandwich respectively)	18 credits from any one vertical of the same programme	8.50	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. (Honours)	3/4/5 years (Lateral entry, Regular, Sandwich respectively)	4/5/6 years (Lateral entry, Regular, Sandwich respectively)	18 credits from more than one verticals of the same programme	8.50	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 in other specialization	3/4/5 years (Lateral entry, Regular, Sandwich respectively)	4/5/6 years (Lateral entry, Regular, Sandwich respectively)	18 credits from any one vertical of the other programme	8.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
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13.3.2 First Class

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits (iv)	CGPA (v)	Pass in (vi)	Break of study (vii)	Prevention due to lack of attendance (viii)	Withdrawal from writing end semester 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) Specialization in the same discipline	3/4/5 years (Lateral entry, Regular, Sandwich respectively)	4/5/6/ years (Lateral entry, Regular, Sandwich respectively)	18 credits from any 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. (Honours)	3/4/5 years (Lateral entry, Regular, Sandwich respectively)	4/5/6 years (Lateral entry, Regular, Sandwich 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 in other	3/4/5 years (Lateral entry, Regular,	4/5/6 years (Lateral entry,	18 credits from any one vertical	6.50		One year authorised break of	Included in the Duration permitted (iii)	-

specialization	Sandwich respectively)	Regular, Sandwich respectively)	of the other programme			study included in the Duration permitted		
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13.3.3 Second Class

B.E./ B.Tech Regular and Lateral Entry and B.E./B.Tech. minor in other specialisation degree students (not covered in 13.3.1 and 13.3.2) who qualify for the award of the degree shall be declared to have passed the examination in **Second Class**.

Students earned additional 18 credits as per Clause 13.1 and 13.2 but does not satisfy the conditions mentioned in 13.3.1 and 13.3.2 shall not be awarded B.E/B.Tech. Honours. In such cases the mark sheet will show the additional courses studied and those courses shall not be considered for CGPA computation. In such case if the student eligible for 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 only.

13.4 CLASSIFICATION OF THE DEGREE AWARDED

Description	Class
CGPA ≥ 8.5 , with no history of arrears and degree must be completed within the stipulated Period (4 Years for first year admitted & 3 Years for Lateral Entry).	First Class with Distinction
CGPA ≥ 7.0 and degree must be completed within the stipulated period / passed the examination in all the courses within the specified minimum number of semesters plus grace period of one year	First Class
All other successful candidates.	Second Class

14. PROVISION FOR WITHDRAWAL FROM EXAMINATION

14.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports activities) approved by HoD and Principal be granted permission to withdraw from appearing for the Semester End examinations in any one of the semester examinations during the entire duration of the degree programme.

14.2 Withdrawal application shall be valid only if the student is otherwise eligible to write the examination (Clause 7) and if it is made within TEN working days before the commencement of the Semester End examinations and also recommended by the HoD.

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

15. BREAK OF STUDY FROM A PROGRAMME

15.1 A student is normally not permitted to temporarily break the study. However, if a candidate intends to temporarily discontinue the programme in the middle for valid reasons (such as prolonged illness or hospitalization etc,) and to rejoin the programme, he/she shall apply through HoD and Principal in advance in any case not later than two months prior to the commencement of ensuing semester in which break has occurred, to repeat that semester in the next academic year, subject to the approval of DoTE, Chennai and Anna University, Chennai.

15.2 The students permitted to rejoin the programme after break of study / reversion 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 to the CoE 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.

15.3 The total period of completion of the programme to which the candidate was first admitted, shall not exceed the maximum period specified (vide clause 5.1), irrespective of the period of the break of study in order that he/she may be qualified for the award of the degree.

16. CODE OF CONDUCT

Violation of code of conduct shall attract disciplinary action which may include punishment such as reprimand, disciplinary probation, penalty, debarring from the examination, withholding of grades/degree, cancellation of registration, withdrawal of placement services and even expulsion from the institution.

17. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The regulations hereunder are subject to amendments as may be made by the Academic Council of the college from time to time. Any or all such amendments will be effective from such date and to such batches of students (including those already undergoing the programme) as may be decided by the Academic Council.

ANNEXURE – I

A student may be offered one of the following programmes of study approved by the University. A student of a programme should earn the credits specified against it to enable the student to be eligible to be awarded the degree.

Credits Range for UG Programmes

As per the University/UGC Norms, the lower and upper limit of credits for B.E/ B.Tech Programme shall be **160-165**.

S.No.	NAME OF THE PROGRAMME	CREDITS TO BE EARNED
1	B.E. Aeronautical Engineering	
2	B.E. Bio Medical Engineering	
3	B.E. Civil Engineering	
4	B.E. Computer Science Engineering	
5	B.E. Electronics and Communication Engineering	
6	B.E. Electrical and Electronics Engineering	
7	B.E. Mechanical Engineering	
8	B.Tech. Bio Technology	
9	B.Tech. Chemical Engineering	
10	B.Tech. Information Technology	