

Dr. MAHALINGAM



COLLEGE OF ENGINEERING AND TECHNOLOGY
Enlightening Technical Minds Estd. 1998

An Autonomous Institution
(Since 2011)

Dr. MAHALINGAM

COLLEGE OF ENGINEERING AND TECHNOLOGY

Affiliated to Anna University, Chennai; Approved by AICTE ; Accredited by NAAC with Grade 'A++'

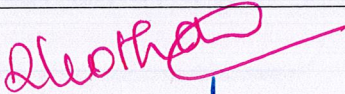
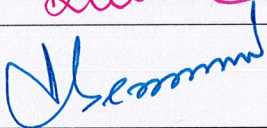
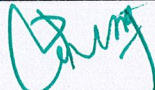
Accredited by NBA - Tier 1 (Mech, Auto, Civil, EEE, ECE, E&I and CSE)

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UG - REGULATIONS – 2023 R1

(Amendments incorporated 03.01.2025)

UG REGULATIONS – 2023 R1 (CBCS)
Amendments incorporated – 3rd January 2025
Approved by Standing Committee – 30th December 2024

Action	Responsibility	Signature of Authorized Signatory
Compiled by	Office of COE	
Verified by	Dean-Academics & Autonomous	
Approved by	Principal	

Dr. Mahalingam College of Engineering and Technology, Pollachi-03

(An Autonomous Institution - Affiliated to Anna University, Chennai)

UG REGULATIONS 2023 R1 - CHOICE BASED CREDIT SYSTEM

(Amendments incorporated on 03rd January 2025)

DEGREE OF BACHELOR OF ENGINEERING / BACHELOR OF TECHNOLOGY

This Regulation is applicable to the students admitted to all B.E./B.Tech. Programmes offered at Dr.Mahalingam College of Engineering and Technology (MCET), Pollachi affiliated to Anna University, Chennai from the academic year 2023-24 onwards.

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In this Regulation, unless the context otherwise specifies:

- i. **“MCET”** is the abbreviation for Dr.Mahalingam College of Engineering and Technology, Pollachi and wherever the term college is used, it implies MCET.
- ii. **“Programme”** means Degree Programme (i.e) B.E. / B.Tech. Degree Programme.
- iii. **“Branch”** means specialization or discipline of B.E./B.Tech. Degree Programmes, such as Civil Engineering, Mechanical Engineering, Information Technology, etc.
- iv. **“Course”** means a theory or practical subject that is normally studied in a semester under a particular B.E./B.Tech Programme.
- v. **“Principal”** is the Head of the Institution who is responsible for all the academic activities of the institution and the implementation of relevant rules of these Regulations.
- vi. **“University”** refers to Anna University, Chennai

2. ADMISSION

Students seeking admission to the I-semester of B.E. / B.Tech. degree programme as well as lateral entry students seeking admission to the III-semester of B.E./B.Tech. degree programme will be admitted as per the norms prescribed by AICTE and Government of Tamil Nadu from time to time.

3. PROGRAMMES OFFERED

A student may be offered any one of the branches of study approved by the University and offered by the college. The minimum recommended credit is 160.

Branches offered by the college under two different programmes are mentioned below.

B.E. – Programmes

1. Automobile Engineering (AU)
2. Civil Engineering (CE)
3. Computer Science and Engineering (CS)
4. Computer Science & Engineering (Artificial Intelligence & Machine Learning) (AM)
5. Computer Science & Engineering (Cyber Security) (SC)
6. Electrical and Electronics Engineering (EE)
7. Electronics and Communication Engineering (EC)
8. Mechanical Engineering (ME)
9. Electronics Engineering (VLSI Design and Technology)(EV)
10. Electronics and Communication (Advanced Communication Technology)(EA)

B.Tech. – Programmes

11. Artificial Intelligence and Data Science (AD).
12. Information Technology (IT)

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 and practical courses that shall be categorized as follows:

- i. **Major Courses** include the Professional Core Courses and Professional Elective Courses relevant to the chosen specialization / branch.
- ii. **Minor Courses** includes Basic Sciences Courses like Mathematics, Physics, Chemistry etc.
- iii. **Multidisciplinary Courses** include the courses from Engineering Sciences Courses which includes C-Programming, Engineering Drawing, Environmental Sciences, Basic Electrical, Basic Electronics, any other course based on chosen Specialization / programme etc.,
- iv. **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. programmes,
- v. **Ability Enhancement Courses (AEC)** include English language focused on language, communication skills etc.,
- vi. **Skill Enhancement Courses (SEC)** include One Credit Courses, Industry readiness courses, Entrepreneurship Development Course etc.,

- Vii. **Value Added Course (VAC)** include Heritage of Tamils , Tamils and Technology, Wellness for Students, Universal Human Values 2 :Understanding Harmony, etc.,
- viii. **Employability Enhancement Courses (EEC)** include Community Internship Community Engagement and Research internship, Reverse Engineering Project, Project etc.,
- ix **Mandatory Non-credit Courses (MNC)** include Induction Programme and Environmental Sciences.

4.2. 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
1 Practical periods (Lab / Project etc.,)	0.5

4.3 In each semester the curriculum will normally have a blend of theory courses not exceeding 6 and practical courses not exceeding 4.

4.4 For the award of the degree, a student has to earn a minimum number of credits as Specified in the curriculum.

4.5 Project

Every student is required to undertake project work as indicated in the curriculum of the respective programme in Industry / department in consultation with the Head of the Department and the faculty guide. The list of project guides and co-guides will be prepared by the Head of the Department and approved by the Principal. The student must submit the project report in the prescribed format on the dates announced by the college/department to fulfill the requirements for the award of the degree. For Industry project, an expert from the respective Industry will act as co-guide. Project work may be allotted to a single student or to a group of students (maximum of 3 students). Interdisciplinary projects in engineering disciplines are encouraged.

4.6 **Skill Enhancement Courses** will be offered to all students from Semesters II to VI. Each course will be conducted for 30 periods and will carry 1 credit each. Entrepreneurship Development course will be offered to all students with 3 credits.

4.7 Online Courses

- Students shall be permitted to credit a maximum of 2 online courses of 12 weeks duration each, subject to a maximum of 6 credits with the approval of the Head of the Institution through Head of the Department, in lieu of open elective/professional elective courses.
- Students those who have opted for online elective course shall get exemption of

Professional Elective / Open Elective courses in the subsequent semesters.

- Suitable online courses shall be chosen from the NPTEL /SWAYAM platform from the approved list.

Mapping of Marks scored in NPTEL course and Credits earned

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

4.8 Community & Research Internship / Skill Development Course

- Students shall undergo Internship / skill development course by following minimum 2 weeks and minimum 8 weeks scheme.
- Student should undergo minimum 2 weeks of internship during IV semester vacation. However, he/she can undergo the internship during V semester instead of IV semester after obtaining prior approval from the Principal through the Head of the Department. This internship will be given 1 credit in the VI semester grade sheet.
- Student can complete minimum 2 weeks of skill development course offered by Career Planning and Guidance (CPG) or minimum 2 weeks of internship at industries during VI semester vacation. This internship/skill development course will be given 1 credit in the VII semester grade sheet.
- Students can undergo minimum 8 weeks of internship during VIII semester. Eighth semester internship/skill development course will carry 4 credits.
- Students not opting for Internship must obtain prior approval from the Principal through the Head of the Department and shall undergo one or more Skill Development courses offered by Centre of Excellences (COEs) / Departments / Career Planning and Guidance (CPG) / Centre for Innovation Business Incubation and Entrepreneurship (CIBIE) during VI semester vacation and VIII semester.
- Skill development Courses may include training at COEs, Training provided by department and Employability skills training through CPG. Entrepreneurship development course is mandatory for all the students.
- Students opting for placement shall undergo internship. However, students not eligible and not opting for placement with proper approval can undergo skill development courses instead of internship.
- The minimum 8 weeks of internship / skill development will be awarded 4 credits and

1 credit for minimum 2 weeks of internship / skill development. These credits shall be distributed in VI, VII and VIII semester grade sheets.

- The credits will be awarded based on evaluation of internship / Skill development report submitted by the student and Viva Voce performance.

Semester	Details	Duration	Credits
IV or V semester vacation	Community & Research Internship -1 / Skill Development Course	Minimum 2 weeks	1 credit in VI Semester
VI semester vacation	Community & Research Internship -2 / Skill Development Course	Minimum 2 weeks	1 credit in VII Semester
VIII semester	Internship / Skill Development Course	Minimum 8 weeks	4 credit in VIII Semester

4.9 One Credit Courses

Student may be permitted to credit a maximum of 3 'one credit' courses during III, IV, V and VI semesters.

One credit courses shall be offered for a minimum of 15 lecture hours / 30 practical hours duration in a semester. This course will be delivered by experts from industries and R&D establishments along with MCET faculty members with the approval of the Head of the Institution through the Head of the Department. Students those who earned 3 credits through one credit courses during III, IV, V and VI semesters shall get exemption of one Professional Elective course. Details of one credit courses offered by the department shall be forwarded to the Office of the Controller of Examinations.

4.10 Industrial Visit

Every student is expected to go for at least one Industrial visit every year during the duration of the Programme.

4.11 Mandatory Non-Credit courses

Student has to complete Mandatory Non-credit Courses as prescribed in the Curriculum to fulfill the degree requirements. Continuous Assessment will be followed for these courses and these courses will not be considered for the SGPA / CGPA calculations.

4.12 Medium of Instruction

The medium of instruction is English for all the courses, examinations, seminar presentations, and project / thesis / dissertation reports and other than the courses like Heritage of Tamil & Tamils and Technology.

4.13 Personality and Character Development/Studio Activities

All students shall enroll, on admission, in any one of the personality and character Development programmes NCC/NSS/NSO/YRC/Sports and Games or clubs and undergo training / conduct activities for about 80 hours and attend a camp of about 7 days if registered in NCC/NSS.

- National Cadet Corps (NCC) will have parades and a number of camps specified by the NCC officer.
- National Service Scheme (NSS) will have social service activities in and around the College / institution and in addition to that the activities are being carried out through the following clubs.
 - Gyan - the quiz club,
 - Youth Red Cross society & Red Ribbon Club,
 - Science Mathematics and Technology Club,
 - Readers Club,
 - Photography Club,
 - Fine Arts Club,
 - Muthamizh Mandram, etc.,

5. DURATION OF THE PROGRAMMES

- 5.1. A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (for HSC students) and 6 semesters (for Lateral Entry students) but in any case, not more than 14 Semesters for HSC (or equivalent) students and not more than 12 semesters for Lateral Entry students.
- 5.2. Each semester shall normally consist of 75 working days. The Head of the Department shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.
- 5.3. 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 (vide clause 18) in order that he/she may be eligible for the award of the degree (vide clause 16).

6. COURSE ENROLLMENT AND REGISTRATION

- 6.1. Each student, on admission, shall be assigned to a Mentor (vide clause 8), who shall advise and counsel the student about the details of the academic programme and the choice of courses, considering the students' academic background and career objectives.

- 6.2. A course shall be offered by a department only if a minimum of 10 students register for that course. Special permission has to be obtained from the Principal to offer a course for less than 10 students.
- 6.3. After registering for courses, a student shall attend the classes, satisfy the attendance requirements, earn continuous assessment marks and appear for the end semester examinations.
- 6.3.1. The enrollment and registration for all the courses of Semester I and II are compulsory.
- 6.3.2. Enrollment for the course(s) of Semesters III to VIII will commence 10 working days prior to the last working day of the preceding semester. The student shall enroll for the courses with the guidance of the student's Class Coordinator/ Mentor.
- 6.3.3. However, the student shall confirm the enrollment by registering the courses. If the student wishes, he/she may drop or add courses (vide clause 6.4) within 10 working days after the commencement of the semester concerned and complete the registration process duly authorized by the Head of the Department.
- 6.4. **Flexibility to Add or Drop 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 students' programme within the minimum duration of the programme.
- 6.4.2. From III to VII semesters, the student has the option of registering additional courses after meeting the pre-requisite if any, or dropping existing courses (except Project work) with due approval from the Principal through the Head of the Department. Total number of credits of such courses cannot exceed 8 per semester.
- 6.5. **Registration for Re-appearance Examination**
- 6.5.1. If a student does not meet the passing requirements in a course, the student can register for reappearance for that course in the subsequent semesters.
- 6.5.2. If the course, in which the student does not meet the passing requirements is a professional elective / open elective/OCC, the student may register for the same or any other professional elective /open elective / One Credit course respectively in the subsequent semesters. In case the student registers for a new course, the student has to fulfill the attendance requirements (vide Clause 7) and earn Continuous Assessment marks.
- 6.5.3. The student who fails in any Project work shall register for the course again, when offered next, and redo the course. In this case, the student shall attend

the reviews and fulfill the attendance requirements as per Clause 7.

- 6.5.4.** The student who fails in Internship shall register for the same in the subsequent semester and redo the course. In this case, the student shall attend the classes and fulfill the attendance requirements as per Clause 7.

7. REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION

A student who has fulfilled the following conditions (vide clause 7.1 and 7.2) shall be deemed to have satisfied the attendance requirements for appearing for 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 which will be calculated by considering all the courses in the curriculum.

$$\text{Percentage of attendance} = \frac{\text{Total number of periods attended in all the courses per semester}}{\text{No. of periods/week as prescribed in the curriculum X 15 taken together for all courses of the semester}} \times 100$$

- 7.2.** If a student secures overall attendance between 65% and less than 75% 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 Head of the Institution and Head of the Department concerned, the student shall be given exemption from the prescribed attendance requirement and the student shall be permitted to appear for the end semester examinations. In all such cases, the students should submit the required documents on joining after the absence to the Head of the Department through the Class Coordinator.
- 7.3.** A student shall normally be permitted to appear for the end semester examination of the course if the student has satisfied the attendance requirements (vide Clause 7.1 & 7.2) and has registered for the examination in those courses of that semester by paying the prescribed fee.
- 7.4.** Students who secure less than 65% overall attendance shall not be permitted to write the end semester examination at the end of the semester and not permitted to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed.

8. CLASS COORDINATOR AND MENTOR

8.1. Class Coordinator

To help the students in planning their courses of study and for general advice on the academic programme, the Head of the Department will nominate a faculty member to each class, who shall function as Class Coordinator.

Responsibilities of the Class Coordinator shall be:

- To act as the channel of communication between the Head of the Department and the students of the respective class.
- To collect and maintain various statistical details of the students.
- To help the chairperson of the class committee in planning and conducting class committee meetings.
- To coordinate the students' scholarships, awards, medals, and industrial visits.

8.2. Mentor

In order to facilitate the students' progress and welfare, the Head of the Department will allocate maximum of 20 students to a faculty member of the department, who shall function as Mentor for them throughout their period of study. The responsibilities of the mentor include:

- Maintaining the records of each of his/her mentees, which shall contain information about the students' attendance, grades obtained in the End Semester Examinations, marks of Continuous Comprehensive Evaluation Test (CCET), achievements if any in Curricular, Co-curricular and Extra-curricular activities and disciplinary proceedings if any.
- Recommending the students leave request to the Head of the Department for approval. The mentor will maintain the students leave records.
- Guiding the students in course registration, monitor their academic performance and counsel them periodically.
- Discussing with the parents about the progress of the student concerned in both academic and disciplinary issues.
- Organizing the parents meeting in consultation with the class coordinator and Head of the Department.

9. COURSE COMMITTEE

Theory and practical courses offered to more than one discipline or section, shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as Course Coordinator. The nomination of the Course Coordinator shall be made by the Head of the Department / the Principal depending

upon whether all the teachers teaching the common course belong to a single department or to several departments. The 'Course committee' shall meet in order to arrive at the design, delivery and assessments of the course, across the sections / discipline. The committee shall also ensure a uniform evaluation of the tests. Wherever feasible, the course committee may also prepare a common question paper for the Continuous Assessment test(s).

10. CLASS COMMITTEE

10.1. Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson who does not teach the class. The overall goal of the class committee is to improve the teaching-learning process. 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 the rules therein.
- Informing the student representatives about the academic schedule including the dates of assessments and the syllabus portion for each assessment.
- Informing the student representatives about the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / project work etc.) the breakup of marks 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 after each test and finding remedial measures, if any.
- Identifying the slow learners, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such slow learners.

10.2. The class committee for a class under a particular programme is normally constituted by the Head of the Department within the first week of each semester.

10.3. At least 4 students representatives (both boys and girls) shall be included in the class committee.

10.4. The Chairperson of the class committee may invite the Class Coordinator and the Head of the Department to the class committee meeting.

10.5. The Principal may participate in any class committee meeting of the institution.

- 10.6. The chairperson is required to prepare the minutes of every meeting, submit the same to the Principal within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are any points in the minutes requiring action by the management, the same shall be brought to the notice of the Management by the Principal.
- 10.7. The first meeting of the class committee shall be held within one week from the date of commencement of the semester. Two or three subsequent meetings may be held in a semester at suitable intervals. The Class Committee Chairperson shall display on the Notice Board the cumulative attendance particulars of each student at the end of every such meeting to enable the students to know their attendance details to satisfy 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.

11. SYSTEM OF EVALUATION

- 11.1. Performance in each course of study shall be evaluated based on Continuous Assessment (CA) and End Semester Examination (ESE).
- 11.2. Each course, both theory and practical (excluding project work) shall be evaluated for a maximum of 100 marks. Project work shall be evaluated for a maximum of 200 marks.
- 11.3. For all theory courses, the Continuous Assessment will carry 40 Marks while the End Semester Examination will carry 60 Marks.
- 11.4. For all theory courses with laboratory component, the Continuous Assessment will carry 50 Marks while the End Semester Examination will carry 50 Marks.
- 11.5. For all laboratory courses, the Continuous Assessment will carry 60 Marks while the End Semester Examination will carry 40 Marks.
- 11.6. The examination for the project work shall consist of the evaluation of the final project report and viva – voce conducted by the external and internal examiner. The Continuous Assessment will carry 150 Marks while the End Semester Examination will carry 50 Marks.
- 11.7. Internship / Skill Enhancement Courses evaluation will be conducted for 100 marks by a panel of examiners appointed by the Head of the Department.
- 11.8. The other courses which do not fall under the courses specified in Clause 4.1 will have a suitable system of evaluation recommended by the Academic Council.

12. PROCEDURE FOR AWARDING MARKS FOR CONTINUOUS ASSESSMENT

12.1. Theory Courses (40 Marks)

Two assessments each carrying 100 marks shall be conducted during the semester by the Department concerned. The total marks obtained in all assessments put together out of 200, shall be proportionately reduced for 40 marks and rounded to the nearest integer.

Assessment I (100 Marks)		Assessment II (100 Marks)		Total Internal Assessment
Individual Assignment / Quiz / Poster Presentation	Written Test	Individual Assignment / Quiz / Case Study / Seminar / Mini Project	Written Test	
40	60	40	60	200*

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

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

12.2. Theory courses with Laboratory component (50 marks)

If there is a theory course with laboratory component, there shall be two assessments. The first assessment is to be conducted for 100 marks and will have to be distributed in two parts viz., Evaluation of Laboratory, Observation & record and Test with each having a weightage of 40% and 60% respectively. The second assessment is to be conducted for 100 marks and will have to be distributed in two parts viz., Evaluation of Laboratory, Observation record & Lab Exam and test with each having a weightage of 40% [Lab Exam to be conducted for a weightage of 20%] and 60% respectively. The tests shall be in written mode. The total internal assessment marks of 200 shall be converted into a maximum of 50 marks and rounded to the nearest integer.

Assessment I (100 Marks)		Assessment II (100 Marks)		Total Internal Assessment
Evaluation of Laboratory Observation, Record	Written Test [CCET I]	Evaluation of Laboratory Observation, Record & Lab Exam	Written Test [CCET II]	
40	60	40	60	200*

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

12.3. Laboratory courses (60 marks)

The maximum marks for Internal Assessment shall be 60 marks in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records to be maintained. There shall be at least one test. The criteria for arriving at the Internal Assessment marks of 60 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the model exam. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

Internal Assessment (100 Marks)*	
Evaluation of Laboratory Observation, Record	Model Exam
75	25

*The weighted average shall be converted into 60 marks for internal Assessment.

12.4. Project Phase I (100 marks)

Project Phase I (100 Marks)	
3 no.of Internal Review	Each of 25 marks=75 marks
Final viva-voce (100 marks)	25 marks

12.5. Project Phase II (200 marks)

Project Phase II (200 Marks)	
3 no.of Internal Review	Each of 50 marks=150 marks
Final viva-voce (100 marks)	50 marks

12.6. Internship / Skill Development courses (100 marks)

Internship

Internship (100 Marks)	
Evaluation of Report	50 marks
Evaluation by the Guide / Review Committee	50marks

Skill Development courses

Performance test will be conducted by the Departments - 100 marks

Entrepreneurship Development course

Assessment I (100 Marks)		Assessment II (100 Marks)		Total Internal Assessment
Continuous Evaluation	Written Test [CCET I]	Continuous Evaluation	Written Test [CCET II]	
40	60	40	60	200*

12.7 Professional Skill courses (100 marks)

Professional Skill courses (100 Marks)	
Continuous Assessment	75 marks
Final Examination	25 marks

12.8. Mandatory Non-Credit courses (100 marks)

Continuous Assessment marks shall be awarded based on evaluation of Student workbook / Test / Field-visit report / Quiz / Case Study / Mini Project / Seminar etc. The assessment scheme followed for each course will be recommended by the respective Board of Studies.

13. PASSING REQUIREMENTS

- 13.1.** A student who secures not less than 50% of total marks (Continuous assessment and End Semester Examination marks put together) and a minimum of 45% marks in the End Semester Examinations shall be declared to have successfully passed the course.
- 13.2.** If a student does not secure a pass in a particular course, it is mandatory that the student should register and reappear for the examination in that course during subsequent semesters; the student should continue to register and reappear for the examination till he / she secures a pass.
- 13.3.** The Continuous Assessment marks obtained by the student in the first appearance shall be retained and considered valid only for **3 attempts**. For further attempts, the student should secure minimum 50 marks exclusively from

the End Semester Examinations conducted for 100 marks for passing the course.

14. AWARD OF LETTER GRADES

The award of letter grades will be decided using relative grading principle except Laboratory Courses and Project Work. However, for the purpose of reporting the performance of a student, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the student in each course as detailed below (over and above fulfilling Clause 13):

Letter Grade	Grade Points
O (Outstanding)	10
A + (Excellent)	9
A (Very Good)	8
B + (Good)	7
B (Average)	6
C (Satisfactory)	5
RA (Reappearance)	0
AS (Attendance Shortage)	0
WD (Withdrawal)	0

- 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”, “and C”.
- “AS” denotes attendance shortage (as per clause 7) and hence prevention from writing the end semester examinations. “AS” will appear only in the provisional result sheet.
- “RA” denotes that the student has not met the passing requirements (Clause 13) in that course. “WD” denotes withdrawal from the exam for the particular course. The grades “RA” and “WD” will figure both in Grade Sheet as well as in provisional result sheet.

Relative Grading

For those students who have passed the course (theory course / laboratory integrated courses / theory integrated courses / all other EEC except laboratory course / Project Work Courses), 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. (Theory

course / laboratory integrated courses / theory integrated courses and all other EEC Courses). If the students' strength is greater than 30, the relative grading method shall be adopted.

Absolute Grading

- In all the courses, if the number of students who have passed the course is less than or equal to 30 then absolute grading shall be followed with the grade range as specified in the Table.
- For the Project Work / Internship and Laboratory Courses, absolute grading procedure shall be followed as given in the Table below irrespective of the number of students who have passed the course.

Grade range for absolute grading

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

14.1. For the Co-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS) / Youth Red Cross (YRC) / Sports and Games, credits shall be awarded as per Clause 4.6.

14.2. For the Mandatory non-credit courses, non-letter grades, GOOD/AVERAGE/FAIR shall be awarded and will appear in the grade sheet.

14.3 The following procedure is used to compute the Grade Point Average (GPA) for a semester and Cumulative Grade Point Average (CGPA):

Grade Point Average (GPA) for a semester is the ratio of the sum of the product of the number of credits of courses registered and the points corresponding to the grades scored in those courses, taken for all courses, to the sum of the number of credits of all the courses in the semester.

Cumulative Grade Point Average (CGPA) will be calculated in a similar manner, considering all the courses registered from first semester. Courses with "RA" and "W" grades will be excluded for calculating GPA and CGPA.

FORMULA FOR GPA & CGPA

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

where. C_i - Credit assigned to the Course

GP_i - point for each course corresponding to the grade obtained

Σ_i - sum for all courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.

n- Total number of courses for the entire programme.

FORMULA FOR CALCULATING PERCENTAGE

$$\text{CGPA} \times 10 = \% \text{ OF MARKS}$$

14.4. Issue of Grade sheet

The grade sheet will be issued every semester after the publication of results and a consolidated grade sheet will be issued after successful completion of all the courses to be eligible for the award of degree. Transcripts will also be issued based on request.

14.5. Photocopy / Revaluation

A student can apply for photocopy of his/her end semester examination answer script in a theory course within 2 weeks from the declaration of results by paying the prescribed fee through proper application to the Controller of Examinations. The student can apply for revaluation after reviewing the photocopy of the answer script, if required. The Controller of Examinations will arrange for the revaluation and the results will be published with the approval of the Principal. Revaluation is not permitted for practical courses and project work.

15. ELIGIBILITY FOR THE AWARD OF DEGREE

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

- Successfully gained the required minimum number of total credits as specified in the curriculum corresponding to his / her programme within the stipulated time.
- 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 (6 years in the case of lateral entry) from the commencement of the 1 semester (3 semester in the case of lateral entry) to which the student was admitted.
- Successfully passed any additional courses prescribed by the Course Equivalency Committee constituted by the Principal whenever re-admitted under any other regulations.
- Successfully completed Mandatory Non Credit courses, and Studio activities.
- No disciplinary action is pending against him / her.

15.2. B.E. / B.TECH. (HONS) SPECIALISATION IN THE SAME DISCIPLINE, B.E. / B.TECH. (HONS) AND B.E. / B.TECH. MINOR IN OTHER DISCIPLINES.

i. B.E. / B.Tech. Honours (Specialisation in the same discipline)

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

ii. B.E. / B.Tech. Honours

- The student have earned additionally a minimum of **18 credits from more than one vertical of the same programme.**
- Should have passed all the courses in the first attempt.
- Should have earned a minimum CGPA of 7.50.

iii. B.E. / B.Tech. (minor in other specialisation)

- The student have earned additionally a minimum of **18 credits in any one of the verticals of other B.E. / B.Tech. programmes.**
- Should have passed all the courses in the first attempt.
- Should have earned a minimum CGPA of 7.50.

15.2.1. Students can earn maximum of 6 Credits in online mode out of these 18 Credits as approved by Academic Council.

15.2.2. B.E. / B.Tech. (Hons) Specialization in the same discipline, B.E. / B.Tech. (Hons.) and B.E. / B.Tech. Minor in other Specialization degree will be optional for students.

15.2.3. For B.E. / B.Tech. Honours (specialization in the same discipline) and B.E. / B.Tech. Honours, 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 and should maintain the same for remaining semesters.

15.2.4. For B.E. / B.Tech. (minor in other specialization), 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.

15.2.5. 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.

- 15.2.6.** If a student decides not to opt for minor, after completing certain number of additional courses, the additional courses studied shall be considered instead of the Open elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of Open 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.

16. CLASSIFICATION OF THE DEGREE AWARDED

16.1. FIRST CLASS WITH DISTINCTION

A student who satisfies the following conditions shall be declared to have passed the examination in First class with Distinction:

- Should have passed the examination in all the courses of all the 8 semesters (6 semesters in the case of Lateral Entry) in the student's First Appearance within 5 years (4 years in the case of Lateral Entry). Withdrawal from examination (vide Clause 17) will not be considered as an appearance.
- Should have secured a CGPA of not less than 8.50.
- One year authorized break of study (if availed) is included in the 5 years in the case of regular and 4 years in the case of lateral entry for award of First Class with Distinction.
- Should not have been prevented from writing end semester examination due to lack of attendance in any of the courses.

16.2. FIRST CLASS

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

- Should have passed the examination in all the courses of all 8 semesters (6 semesters in the case of Lateral Entry) within 5 years (4 years in the case of Lateral Entry).
- One year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of 5 years (4 years in the case of lateral entry) for award of First class.
- Should have secured a CGPA of not less than 6.50.

16.3. All other students (not covered in Clauses 16.1 and 16.2) who qualify for the award of the degree (vide Clause 15.1.) shall be declared to have passed the examination in Second Class.

16.4. A student who is absent in semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification.(Subject to Clause 17 and 18).

17. PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION

17.1. A student for valid reasons (Medically unfit/unexpected family situations/Sports approved by Physical Director and Principal) and on prior application, may be granted permission to withdraw from appearing for the examination of any one course or consecutive examinations of more than one course in a semester examination.

17.2. Such withdrawal shall be permitted only once during the entire period of study of the degree programme.

17.3. Withdrawal is valid only if the student satisfies the attendance requirement (vide Clause 7) Application for withdrawal must be submitted before the last working day and recommended by the Head of the Department. It should be approved by the Principal.

17.3.1. Notwithstanding the requirement of mandatory last working day notice, applications for withdrawal under extraordinary conditions will be considered based on the merit of the case.

17.4. Withdrawal shall not be considered as an appearance for the eligibility of a student to pass in First Class with Distinction.

17.5. Withdrawal is permitted for the end semester examination in the final semester, only if the period of study of the student concerned does not exceed 5 years as per Clause 16.1

17.6. Withdrawal from the End semester examination for the course(s) registered under re- appearance will not be permitted.

18. PROVISION FOR AUTHORISED BREAK OF STUDY

18.1. A student is permitted to go on break of study for a maximum period of one year as a single spell.

18.2. Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the student may apply for additional break of study not exceeding another one year by paying prescribed fee for break of study. If a student intends to temporarily discontinue the programme in the middle of

the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided the student applies in advance to the Principal, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Department stating the reasons therefore and the probable date of rejoining the programme.

- 18.3.** The students permitted to rejoin the programme after break of study / prevention 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 Principal through the Head of the Department at the beginning of the readmitted semester and the Course Equivalency committee shall prescribe additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.
- 18.4.** The authorized break of study would not be counted towards the duration specified for passing all the courses for the purpose of classification (vide Clause 16.1).
- 18.5.** 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 he/she may be eligible for the award of the degree.
- 18.6.** If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1)

19. DISCIPLINE

Every student is required to observe discipline 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 college. The Principal shall constitute a disciplinary committee consisting of the Principal or his nominee, two Heads of the Departments, of which one should be from the faculty of the student, to enquire into acts of indiscipline and notify the Management of the College about the disciplinary action recommended for approval.

If a student indulges in malpractice in any of the End Semester / Continuous Assessment examination, the student shall be liable for punitive action as prescribed by the college or in line with Anna University from time to time. (Annexure I & II)

20. REVISION OF REGULATION, CURRICULUM AND SYLLABI

The college may from time to time revise, amend or change the Regulations, scheme of examinations and syllabi if found necessary. Such changes will be notified to the students and the faculty members.

Annexure I
Policy on Malpractice

GENERAL

1. It shall be the endeavour of all concerned to prevent, control and take remedial action to bring about the occurrences of malpractices to “Zero” in Examinations (both Internal and External), Assignments and also in all the other Academic class work.
2. Therefore, a comprehensive approach to the malady of malpractices has to be adopted to create a mindset of integrity and honesty, and at the same time take sufficiently stern action to make it clear that such attempts are fraught with comparably very high risk.
3. In keeping with this stance, the following measures are to be taken by all concerned from class room level to the Examination Halls:

A. PREVENTION (This is the best method of tackling this malady)

- a. **Class room level:** All faculty members are to involve themselves in the psychological growth of students by personal example and self-respect and strive towards
 - Developing a sense of honour in the minds of students so that they look down upon earning undeserved marks
 - Imbibing a sense of self-respect and internal dignity that prevents him/her from succumbing to the temptation of easy marks by cheating.
 - Generating an awareness of the risks to their character and career if convicted, while also explaining the process and Strict rules and regulations adopted by the Educational system to prevent Malpractices
 - Taking stern view of copied assignments and attempts at malpractices in internal examinations also which merit equal seriousness as external examinations.
 - Setting in place sufficiently strong deterrent rules and regulations such as intimating the parents and warning the students in the presence of parents etc. (even in case of efforts at malpractices in internal tests or repeated acts despite warnings in case of assignments also).
- b. **Examination Halls:** Detailed instructions on Invigilation, question paper setting, evaluation and all the other instructions should be brought to the notice of all the students prior to the examinations.

B. PENAL ACTION FOR MALPRACTICES

All instances of malpractices will be forwarded to the Principal/ Chief Superintendents. The offences will be investigated by a Standing Enquiry Committee constituted by Principal. The committee will summon and give the student an opportunity to present / plead his/her case. The committee may also summon anybody else, if it so deems necessary for the conduct of Enquiry, in the interest of proper investigation and dispensation of the case. The committee will have tenure for the complete academic year.

The committee will be guided by the following:

- The seriousness of the malpractice, in terms of deviousness, and culpability / criminality of motive.
- The seriousness in terms of effort and degree of deviousness and culpability / criminality of effort.
- Any FIR/ Police case that has been registered in the first instance by the Principal/ Chief Superintendent.
- Any other special consideration either mitigating or to the contrary.

C. PENALTY FOR OFFENSES

The penalties awarded will depend on the seriousness of the Offense. A list of Offenses and penalties are given in **Annexure II**.

The enquiry report with the findings and recommendations of the committee should be forwarded to the Controller of Examinations who will undertake necessary follow up action. Based on the recommendations, the Controller of Examinations is empowered to award penalties for Offences classified as belonging to categories 1 to 7 of the offense table. The cases falling in categories from S.No. 8 onwards should be put up to the Principal for consideration and award of suitable penalty.

Annexure II

Warning to the students

The students are warned to desist from doing any kind of malpractice during the examinations. If a student indulges in malpractice, the student is likely to be debarred from examination or even expelled from the Degree Programme. The nature of malpractice and the punishment are indicated in the table.

S.No.	Nature of Malpractice	Maximum Punishment
1.	Plagiarism in assignments submitted for Continuous Assessment.	Cancellation of the assignment
2.	Appeal by the student in the answer script to show mercy by way of awarding more than deserving marks.	I - Fine of Rs.1000/- per course.
3.	The student writing his/her name in the answer script.	
4.	The student writing his /her registration number / college name in the place other than specified in the answer script.	
5.	Any special marking in the answer script by the student	
6.	The student communicating with neighboring student orally or non-verbally; the student causing suspicious movement of his/her body.	
7.	Irrelevant writing by the student in the answer script	
8.	The student writing answer on his/her question paper or making use of his/her question paper for rough work.	
9.	The student possessing cell phone / programmable calculator(s) / any other electronic storage device (s) gadgets.	
10.	The student facilitating the other student(s) to copy from his/her answers script.	
11.	The student possessing any incriminating material(s) (whether used or not). For example:- Written or printed materials, bits of papers containing written information, writings on scale, calculator, handkerchief, dress, part of the body, hall ticket, etc.	III A – If the quantum of the incriminating material is less than that could normally be printed in two lines of A5 size paper, then punishment is restricted to the course concerned only. III B – If the quantum is equal to or more than that could normally be printed in two lines and less than that could normally be printed in the full page of the A5 size paper, then the punishment is invalidating the examination of the course concerned and further the student is not considered for any moderation and revaluation in the current semester for any course (including arrear course). III C – When the quantum is equal to or more than that could normally be printed in full page of A5 size paper, then the punishment would be invalidating the examinations of the course concerned and
12.	The student possessing cell phone(s)/ programmable calculator(s) / any other electronic storage device(s) gadgets and containing incriminating materials (whether used or not).	
13.	The student possessing the question paper of another student with additional writing on it.	
14.	The student passing his/her question paper to another student with additional writing on it.	
15.	The student passing incriminating materials brought into the examination hall in any medium (hard/soft) to other student(s).	
16.	The student copying from neighboring student.	
17.	The student taking out of the examination hall answer booklet(s), used or unused.	

18.	Appeal by the student in the answer script coupled with a promise of any form of consideration.	all the theory and the practical courses of the current semester registered by the student. Further the student is not considered for revaluation of answer script of the arrear courses. If the student has registered for the arrear courses only, invalidating the examinations of all the arrear courses registered by the student. The punishment does not include Project work and the courses with 100% internal evaluation.
19.	Vulgar / offensive writings by the student in the answer script.	IV – Invalidating the examinations of all the theory and Practical courses of the current semester and all the arrear- courses registered by the student.
20.	The student possessing the answer script of another student.	
21	The student passing his/her answers script to another student.	
22.	Student destroying evidence relating to an alleged irregularity.	
23.	Involved in any one or more of the malpractices of serial no.8 to 21 for the second or subsequent times.	V A – Invalidating the examinations of the course concerned and all the theory and practical courses of the current semester registered by the Student. Further the Student is not considered for revaluation of answer scripts of the arrears courses.
24.	The Student substituting an answer booklet prepared outside the examination hall for the one already distributed to the Student.	V B - If the Student has registered for arrear courses only, invalidating the examinations of all the arrear courses registered by the Student.
25.	The student misbehaving in the examination hall	Additional Punishment: (i) If the Student has not completed the programme, he/she is debarred from continuing his//her studies for one year i.e., for two subsequent semesters. However, the student is permitted to appear for the examination in all the arrear courses during the debarred period. (ii) If the Student has completed the programme, he/she is prevented from writing the examinations of the arrear courses for two subsequent semesters.
26.	The Student indulges in any disruptive conduct including, but not limited to, shouting, assault of invigilator, officials or student using abusive and/ or threatening language, destruction of property.	VI A Invalidating the examinations of all the theory and practical courses of the current semester and all the arrear courses registered by the student.
27.	The student harasses or engages others to harass on his/her behalf an invigilator, official, witnesses or any other person in relation to an irregularity by making telephone calls, visits, mails or any other means.	VI – B If the student has registered for arrear courses only, invalidating the examinations of all the arrear courses registered by the student. Additional Punishment (i) If the student has not completed the programme, he/she is debarred from continuing his/her studies for two years i.e., for four subsequent semesters. However, the student is permitted to appear for the examination in all the arrear courses during the debarred period.
28.	Student possessing any firearm / weapon inside the examination hall.	(ii) If the student has completed the programme, he / she is prevented from writing the examinations of the arrear courses for four subsequent semesters.

29.	Cases of Impersonation.	<p>VII (i) Handing over the impersonator to the police with a complaint to take appropriate action against the person involved in the impersonation by the Chief Superintendent.</p> <p>(ii) If a student of this college is found to impersonate a 'bonafide student', the impersonating student is debarred from continuing his/her studies and writing the examinations permanently. He/She is not eligible for any further admission to any programme of the colleges.</p> <p>(iii) Debarring the 'bonafide student' for whom the impersonation was done from continuing his/her studies and writing the examinations permanently. He / she is not eligible for any further admission to any programme of the college.</p>
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