

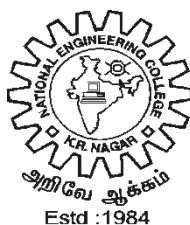
NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI
(An Autonomous Institution, Affiliated to Anna University, Chennai)

REGULATIONS – 2023

OUTCOME BASED EDUCATION

&

CHOICE BASED CREDIT SYSTEM



POST GRADUATE DEGREE PROGRAMME

(Applicable to students admitted from the Academic year 2023-2024 and subsequently under
Choice-based Credit System)

VISION

- Transforming lives through quality Education and research with human values.

MISSION

- To maintain excellent infrastructure and highly qualified and dedicated faculty.
- To provide a conducive learning environment with an ambience of humanity, wisdom, creativity and team spirit.
- To promote the values of ethical behavior and commitment to the society.
- To partner with academic, industrial and government entities to attain collaborative research.

NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI

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

2023 REGULATIONS FOR M.E. / M.TECH. DEGREE PROGRAMMES

(for the Batches of students admitted in 2023-2024 and subsequently under Choice Based Credit System)

The following Regulations shall be applicable for all the P.G. Degree Programmes offered at National Engineering College, K.R.Nagar, Kovilpatti from the academic year **2023 – 2024** onwards.

1.0 PRELIMINARY DEFINITIONS AND NOMENCLATURE

1. “**Programme**” means Post Graduate Degree Programme, i.e., M.E./M.Tech. Degree Programme.
2. “**Discipline**” means a discipline of M.E. / M.Tech. Degree Programme like Computer Science and Engineering, Embedded Systems, etc.
3. “**Course**” means a Theory or Practical course that is normally studied in a semester, like Optimization Techniques, Web Application Security, etc.
4. “**Dean (Academic)**” means the authority of the Institution who is responsible for all academic activities of various programmes and implementation of relevant rules of these Regulations pertaining to the Academic Programmes.
5. “**Head of the Institution**” means the Principal of the College / Institution.
6. “**Head of the Department (HoD)**” means Head of the Department concerned.
7. “**Controller of Examinations**” means the authority of the Institution who is responsible for all the activities of the End Semester Examinations of this Institute.
8. “**University**” means **ANNA UNIVERSITY, CHENNAI**.

2.0 ADMISSION REQUIREMENTS

- 2.1 Candidates for admission to the first semester of the Post-Graduate Degree Programme shall be required to have passed an appropriate Under-Graduate Degree Examination of Anna University or equivalent as specified under qualification for admission as per the Tamil Nadu Common Admission (TANCA) criteria. This is applicable for students admitted both under Single Window Counselling process and through the Management Quota.
- 2.2 They should also satisfy other eligibility rules as prescribed by Anna University, Chennai, from time to time.

3.0 PG PROGRAMMES OFFERED AND MODE OF STUDY

1. M.E. - Energy Engineering
2. M.E. - Computer Science and Engineering
3. M.E. - High Voltage Engineering
4. M.E. - Embedded System Technologies
5. M.Tech. - Information Technology (Information and Cyber Warfare)

3.1 Mode of Study

Candidates admitted under ‘Full Time’ should be available in the Department / College during the entire duration of working hours for the Curricular, Co-curricular and Extra-curricular activities assigned to them.

The Full-Time candidates should not attend any other Full Time / Part Time Programme(s) / course(s) or take up any Full-Time job / Part Time job in any Institution or Company during the period of the Full-Time Programme. Violation of the above rules will result in the cancellation of admission to the PG Programme. However, taking up of job is permitted with authorised break of study as explained in Clause 19.6.

4.0 STRUCTURE OF THE PROGRAMME

4.1 Categorization of Courses

Every PG Degree Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

- i. **Programme Core Courses (PCC)** include the core courses relevant to the chosen programme of study and the Employability Enhancement Courses such as Project, Seminar and Inplant Training/Internship.
- ii. **Programme Elective Courses (PEC)** include the elective courses relevant to the chosen programme of study.
- iii. **Open Elective Courses (OEC)** include the Inter-disciplinary courses which are offered in other PG degree programmes.
- iv. **Employability Enhancement Courses (EEC)** include Project Work and / or Internship, Seminar, Case Study and Industrial / Practical Training.
- v. **Audit Courses (AC)** include Yoga, Value education, Disaster management, Sanskrit, Pedagogy, Constitution of India, Personality development through Indian culture and courses covering subjects for developing the desired attitude among the learners is on the line of initiatives such as Unnat Bharat Abhiyan.

4.2 Number of Courses per Semester

The Curriculum of a semester shall normally have a blend of theory and practical courses including employability enhancement course. Each course shall have credits as per **clause 4.3**.

4.3 Credit System

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

TABLE – 1 CREDIT SYSTEM

Contact period per week	Credits
One Lecture (L) Period	1
One Tutorial (T) period	1
1 Practical Period (Laboratory / Seminar / Project Work etc.	0.5

The length of the semesters shall be 18 to 20 weeks. The credit for a course shall vary from 1 to 4.

4.4 Project Work

The project work for M.E. / M.Tech. Programmes consist of Project Work–I and Project Work–II. The Project Work–I is to be undertaken during Semester III and Project Work–II, which is a continuation of Project Work–I, (except when project work II is carried out in the industry) is to be undertaken during Semester IV.

- 4.4.1** In case of students of M.E. / M.Tech. Programmes not completing Project Work-I successfully, the students can undertake Project Work-I again in the subsequent semester. In such cases the students can enroll for Project Work-II, only after successful completion of Project Work-I.
- 4.4.2** Project work shall be carried out under the supervision of a faculty member of the respective departments possessing a Ph.D. degree or PG degree with a minimum of 3 years of experience in teaching.
- 4.4.3** A student may, however, undergo Project Work-II (M.E./M.Tech. Programme) in industry/academic institution of repute offering PG programmes in Engineering/Technology (other than affiliated colleges of Anna University)/research institutions for a minimum of 16 weeks during the final semester. In such cases, the students shall undergo the Project Work-II with the approval obtained from the Head of the department and Head of the institution preferably one month before the start of the industrial project.
- 4.4.4** The Project Work-II carried out in industry/academic institution of repute/research institutions need not be a continuation of Project Work-I. In such cases, the Project Work shall be jointly supervised by a supervisor of the department and an expert as a joint supervisor from the organization and the student shall be instructed to meet the supervisor periodically and to attend the review committee meetings for evaluating the progress. The review meetings, if necessary, may also be arranged in online mode with prior approval from the Head of the Institution and suitable record of the meetings shall be maintained.
- 4.4.5** The Project Work (Project Work-II in the case of M.E./M.Tech.) shall be pursued for a minimum of 16 weeks during the final semester.

4.5 Online Courses

Students may be permitted to credit a maximum of two online courses, subject to a maximum of six credits, with the approval of the Dean (Academic) and the Head of the Institution in lieu of open elective / programme elective courses. The Dean (Academic) shall form a three member committee with members as HOD and a faculty member from the Department of the student, HOD of any other branch of the Institution to ensure that the student has not studied such courses and would not repeat it again as Programme Core / Programme Elective / Open Elective courses. Suitable online courses shall be chosen from the SWAYAM platform.

4.6 Industrial Training/Internship

The interested students may undergo Industrial Training/ Internship for a specific period during summer / winter vacation at Industry / research organization/university.

4.7 Value Added Courses

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 Value Added Courses shall be over and above the total credit requirements prescribed in the curriculum for the award of the degree. **One / Two credit courses** shall be offered by a Department of an institution with the prior approval from the **Dean (Academic) and the Head of the Institution** without any additional fee charged from the students. The details of the syllabus, time table and course coordinator may be sent to the Dean (Academic) at least one month before the course is offered for approval. Students can take a maximum of two one credit courses / one two credit course during the entire duration of the Programme.

4.8 Audit courses

The student may optionally study audit courses prescribed by the University and it will be mentioned in the Grade Sheet. However, it will not be considered for computation of CGPA.

4.9 Medium of Instruction

The medium of instruction shall be English for all the courses, examinations, seminar, presentations, and project/thesis/dissertations reports.

5.0 DURATION OF THE PROGRAMME

5.1 The minimum and maximum period for completion of the PG Programmes are given in **Table-3**.

TABLE-3

Programme	Minimum No.of Semesters	Maximum No.of Semesters
M.E. / M.Tech. (Full –Time)	4	8

5.2 Each semester shall normally consist of 75 working days or 540 periods of 50 minutes each. The Head of the Institution shall ensure that every teacher imparts 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 For regulations, the academic year has been divided into two semesters, the Odd semester normally spanning from June to November and the Even semester from December to May. The First semester of M.E. / M.Tech. Degree Programme normally spans from August to December and Second semester from January to May.

5.4 The total duration of the programme reckoned from the commencement of the first semester to which the student was admitted, shall not exceed the maximum duration specified in **clause 5.1** irrespective of the period of break of study (**vide clause 19.1**) or prevention (**vide clause 7.4**) in order that the student may be eligible for the award of the degree (**vide clause 16.0**).

5.5 The curriculum of every programme is designed with a total number of credits ranging from **71 to 75**. (**Annexure-I**).

6.0 REGISTRATION

6.1 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.

6.2 From the first to pre-final semesters, the student has the option of adding courses or dropping existing courses in a semester during registration. Total number of credits of such courses cannot exceed 6. The student is permitted to drop the course(s) within 30 days of the commencement of the academic schedule.

6.3 The department is responsible for registering the courses that each student is proposing to undergo in the ensuing semester. Each student has to register for all courses to be undergone in the curriculum of a particular semester (with the facility to drop courses to a maximum of 6 credits).

6.4 The registration details of the student shall be approved by the Head of the department and forwarded to the Dean (Academic) office. This registration is for undergoing the course as well as for writing the End Semester Examinations. The courses that a student registers in a particular semester may include:

- i. Courses of the current semester and
- ii. Courses dropped in the lower semesters.

- 6.5** The maximum number of credits that can be registered in a semester is 30. However, this does not include the number of Re-appearance (RA) and Withdrawal (W) courses registered by the student for the appearance of Examination.
- 6.6** Every student shall enroll for the courses of the succeeding semester during the last week of the current semester. However, the student shall confirm the enrollment by registering for the courses within the five working days after the commencement of the concerned semester.
- 6.7** If a student is prevented from writing end semester examination of a course due to lack of attendance, the student has to register for that course again, when offered next, attend the classes and fulfill the attendance requirements as per **clause 7**.
- 6.8.** The student shall register for the Project work–I during the third semester and Project Work-II during the IV semester.
- 6.9** In case of candidates of M.E./M.Tech.Programmes not completing the course Project Work–I successfully, the candidates can undertake Project Work–I again in the subsequent semester. In such cases, the candidates can enroll for the course Project Work-II only after successful completion of Project Work-I.

7.0 REQUIREMENTS FOR APPEARING FOR END SEMESTER EXAMINATION OF A COURSE

A student who has fulfilled the following conditions (**vide Clauses 7.1 - 7.2**) shall be deemed to have satisfied the requirements for appearing for End semester examination of a particular course.

- 7.1** Ideally, every student is expected to attend all periods and earn 100% attendance in all the courses. However, he/she shall secure not less than 75% attendance in each course in that semester.
- 7.2** If a student secures attendance of 65% and above but 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 Principal / competent authority shall be given exemption from the prescribed attendance requirement and he/she shall be permitted to appear for the End Semester Examinations of that course.
- 7.3** A candidate shall normally be permitted to appear for the End Semester Examination of the course if he/she has satisfied the attendance requirements (**subject to clause 7.1-7.2**) and has registered for the examination in the courses of the current semester. A candidate who has already appeared for a course in a semester and passed the examination is not entitled to reappear in the same course for improvement of letter grades.
- 7.4** Those students who have not satisfied the conditions specified in **Clause 7.1-7.2** and who secure **less than 65%** attendance in a course will not be permitted to write the End Semester Examination (ESE) of that course. The student has to register and repeat this course in the subsequent semester when it is offered next (as per **Clause 6.7**)

8.0 CLASS ADVISER

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

- To act as the channel of communication between the HOD and the students of the respective class.
- To collect and maintain various statistical details of students.

- To help the chairperson of the class committee in planning and conduct of the class committee meetings.
- To monitor the academic performance of the students including attendance and to inform the class committee.
- To attend to the students' welfare activities like awards, medals, scholarships and industrial visits.

9.0 CLASS COMMITTEE

9.1 A Class Committee consists of all teachers handling courses of the concerned class, student representatives and a chairperson who is a faculty not handling the course for 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 the students in the classroom and in the laboratories.
- Clarifying the regulations of the degree programme and the details of rules therein.
- Informing the student representatives about the academic schedule, including the date of assessments (Tests & Assignments) and the syllabus coverage for each assessment.
- Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any
- Identifying the weak students, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students.

9.2 The Head of the department concerned normally constitutes the class committee for a class under a particular programme. However, if the students of different programmes are present in a class, the class committee is to be constituted by the head of the department which is conducting the course.

9.3 The class committee shall be constituted in the second week of commencement of any semester.

9.4 At least two student representatives shall be included in the class committee.

9.5 The chairperson of the class committee may invite the Head of the Department to the meeting of the class committee.

9.6 The Head of the Institution may participate in any class committee meeting.

9.7 The chairperson is required to prepare the minutes of every meeting, submit the same to HOD within two working days of the meeting, and arrange to circulate among the concerned students and teachers. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the management by the Head of the institution.

9.8 The class committee shall meet three times in a semester:

- First meeting - Two weeks after the commencement of the semester
- Second meeting - One week after the first IAT
- Third meeting - One week after the second IAT.

9.9 During these meetings, the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of other students of the class to improve the effectiveness of the teaching-learning process.

10.0 COURSE COMMITTEE FOR COMMON COURSES

Each common theory course offered to more than one group of students 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 / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department / several departments. The “Course committee” shall meet as often as possible and ensure uniform evaluation of the tests and arrive at a common scheme of evaluation for the tests. Wherever it is feasible, the course committee may also prepare a common question paper for the assessment test(s). Guidelines for the evaluation of CO attainment and continuous assessment shall be given by the coordinator of the common course committee.

11.0 SYSTEM OF EXAMINATION AND ASSESSMENT PROCEDURE

11.1 Performance in each course of study shall be evaluated based on (i) Continuous Assessment (CA) throughout the semester and (ii) End Semester Examinations (ESE) at the end of the semester.

11.2 CONTINUOUS ASSESSMENT (CA) PROCEDURE

For all theory, laboratory courses, theory courses with laboratory component and project work the continuous assessment shall be awarded as per the procedure given below:

11.2.1 THEORY COURSES

Two assessments each carrying 100 marks shall be conducted during the semester by the Department concerned as shown in **Table - 4**. 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 (This also implies equal weightage to the two assessments).

TABLE - 4

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

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

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

11.2.2 LABORATORY COURSES

The maximum marks for continuous Assessment shall be 60 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 continuous Assessment marks of 60 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

TABLE - 5

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

* continuous assessment marks shall be converted into 60 marks

11.2.3 THEORY COURSES WITH LABORATORY COMPONENT

If there is a theory course with laboratory component, there shall be two assessments: the first assessment (maximum mark is 100) will be similar to assessment of theory course and the second assessment (maximum mark is 100) will be similar to assessment of laboratory course respectively. The weightage of first assessment shall be 40 % and the second assessment be 60 %. The weighted average of these two assessments shall be converted into 50 marks and rounded to the nearest integer.

TABLE - 6

Assessment I (40% weightage) (Theory Component)		Assessment I (60% weightage) (Laboratory Component)		Total Continuous Assessment
Individual Assignment / Case Study / Seminar / Mini Project	Written Test	Evaluation of Laboratory Observation and Record	Test	
40	60	75	25	200*

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

11.2.4 Mini Project Work with Seminar

The mini project with seminar shall carry 100 marks and shall be evaluated through continuous assessment only. For each student, a project guide shall be assigned by the Head of the department. The Head of the Department concerned shall constitute a review committee for assessing each student who have registered for this course. The project guide will be one of the member in the review committee.

The review committee shall conduct three review meetings for the assessment of the course. The student shall make a presentation on the progress made to a three-member review committee. The distribution of marks for the evaluation of a mini project with the seminar is detailed in **Table - 7**.

TABLE 7 – CONTINUOUS ASSESSMENT EVALUATION FOR PROJECT WORK

CO	Review I		Review II		Review III		Total Attainment for CO
	Marks	Wtg.	Marks	Wtg.	Marks	Wtg.	
1.		20%		30%		50%	
2.							
:							
N.							
TOTAL ATTAINMENT (Average of all COs)							

11.2.5 Project Work

The evaluation of Project work for Project Work - I and Project Work - II shall be done independently in the respective semesters and marks shall be allotted as per the weightages given in **Table-7**. The project work shall be evaluated for a maximum of 100 marks, of which 40 marks will be through continuous assessment.

For each student, a project guide shall be assigned by the Head of the department. The Head of the Department concerned shall constitute a review committee for assessing each student who have registered for this course. The project guide will be one of the member in the review committee.

The review committee shall conduct three review meetings for the continuous assessment of the course. The student shall make a presentation on the progress made to a three-member review committee. The distribution of marks for the evaluation of a Project Work - I and Project Work - II is detailed in **Table - 7**.

11.2.6 Assessment for Online courses

Students may be permitted to credit two online courses (which are provided with certificate), subject to a maximum of six credits. The online course of 3 credits can be considered instead of one elective course. These online courses shall be chosen from the SWAYAM platform, provided the offering organisation conducts regular examination and provides marks. The credits earned shall be transferred and the marks earned shall be converted into grades and transferred, provided the student has passed in the examination as per the norms of the offering organisation. The details regarding online courses taken up by the student and marks/credits earned and the approval for the course from the Dean (Academic) shall be sent to the Controller of Examinations in the subsequent semester(s) along with the details of the elective(s) to be dropped.

The Credit Equivalence shall be as follows:

The online course with minimum of 4 weeks duration may be considered as equivalent to one credit, with 8 weeks duration may be considered as equivalent to 2 credits and 12 weeks duration may be considered as equivalent to 3 credits.

- 11.2.7** Continuous Assessment marks approved by the Head of the Institution shall be displayed by the respective HODs within 5 days from the last working day.

11.3 END SEMESTER EXAMINATION

There shall be an End Semester Examination of 3 hours duration in each lecture based course. The examinations shall ordinarily be conducted between November and January during the odd semesters and between April and June during the even semesters.

- 11.3.1** The End Semester Theory Examinations shall be conducted by Chief Superintendent appointed by the Principal. The Hall Superintendents from the college shall invigilate the halls during theory examinations.
- 11.3.2** The End Semester Examinations of practical courses shall be evaluated by Internal Examiner and Co-Examiner appointed by Controller of Examinations.
- 11.3.3** The End Semester Examination of project work for Project Work-I and Project Work –II shall consist of evaluation, of the final report submitted by the student by an external examiner followed by a viva-voce examination conducted by a committee consisting of the external examiner, internal examiner, and supervisor. The internal examiner and the external examiner shall be appointed by the Controller of Examinations for evaluation from the panel of examiners submitted by the Head of the Department concerned.

- 11.3.4** The students may be permitted to work on projects in R&D Institutions / Industries. In such cases, the student has to submit a certificate from the organization for the successful completion of the project at the time of submitting the report.
- 11.3.5** The Project Report prepared by the student according to the approved guidelines and duly signed by the Supervisor(s) and Head of the Department shall be submitted to the within the stipulated time.
- 11.3.6** If a candidate fails to submit the project report on or before the specified deadline, he / she is deemed to have failed in the Project Work and shall re-enroll for the same in a subsequent semester. This applies for both Project Work–I & Project Work–II.
- 11.3.7** If a candidate fails in the viva-voce examinations of Project work–I, he/she has to resubmit the Project Report within 30 days from the date of declaration of the results. If he/she fails in the viva-voce examination of Project work–II of Project work of M.E. / M.Tech. He/she shall resubmit the Project report within 60 days from the date of declaration of the results. For this purpose, the same Internal and External examiner shall evaluate the re-submitted report.
- 11.3.8** If a candidate fails to obtain 50% of the Continuous Assessment Marks in the Project work–I and Project work–II, he/she will not be permitted to submit the report for that particular semester and has to re-enroll for the same in the subsequent semester.
- 11.3.9** The candidate doing PG programme has to publish outcome of the project as a technical article for publication in a Journal or in an International Conference. An acknowledgment from the Supervisor for having accepted for publication in the Journal or presented in an International Conference shall be attached to the report of the project work.
- 11.3.10** A copy of the approved project report after the successful completion of viva examinations shall be kept in the library of the Institution.
- 11.3.11** The students involving in malpractice during end semester examinations shall appear before the enquiry committee, and punishment will be given by the committee as per the college norms.
- 11.4** Scribes may be appointed for conducting examination for a student with disabilities on request to Principal through Head of the department concerned with necessary documents. Based on the request and genuinely, the Principal may appoint the scribe for the disabled student as per the norms.
- 11.5** **Preservation of assessed answer books**
All answer books shall be preserved for four years in the strong room of Examination Cell.

12.0 ACADEMIC AUDIT

Each Staff member shall maintain an “**ATTENDANCE AND ASSESSMENT RECORD**” for every semester which consists of attendance marked for each Lecture / Practical / Project work class, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the Department periodically (at least three times in a semester). The Head of the Department will verify the details given by the Staff member. At the end of the semester, the record should be verified by the Principal, who will keep this document in safe custody (for five years). The Academic Audit Committee appointed by the Principal may inspect the records of attendance and assessment for both current and previous semesters.

13.0 PASSING REQUIREMENTS

- 13.1** A student who secures not less than 50% of total marks prescribed for the course [Continuous Assessment + End semester Examinations] with a minimum of 45% of the marks prescribed for the end-semester examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and laboratory courses (including project work).

- 13.2** If a student fails to secure a pass in a theory course (except electives)/ laboratory courses, the student shall register and appear only for the end semester examination in the subsequent semester. In such case, the Continuous assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the third attempt onwards if a student fails to obtain pass marks (CA + End Semester Examination) as per clause 13.1, then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the end semester examinations alone.
- 13.3** If the course, in which the student has failed, is a professional elective or an open elective, the student may be permitted to complete the same course. In such case, the internal assessment marks obtained by the candidate in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secures a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (CA + End Semester Examination) as per clause 13.1, then the candidate shall be declared to have passed the examination if he/she secure a minimum of 50% marks prescribed for the end semester examinations alone.
- 13.4** If a student is absent during the viva voce examination of Project work–I and Project work–II, it would be considered as fail. If a student fails to secure a pass in project work even after availing **clause 6.8**, the student shall register for the course again.
- 14.0 AWARD OF LETTER GRADES**
- 14.1** All assessments of a course will be done on an absolute mark basis. However, to report the performance of a candidate, letter grades, each carrying a certain number of points, will be awarded as per the range of marks obtained by the candidate in each course as detailed below:

TABLE – 8

Letter Grade	Grade Points*	Marks Range
O (Outstanding)	10	91 - 100
A+ (Excellent)	9	81 - 90
A (Very Good)	8	71 - 80
B+ (Good)	7	61 - 70
B (Average)	6	56 - 60
C (Satisfactory)	5	50 – 55
U (Re-appearance)	-	< 50
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 obtain any one of the following grades: “O”, “A+”, “A”, “B+”, “B”, “C”.

‘SA’ denotes shortage of attendance and hence prevented from writing the End Semester Examinations. ‘SA’ will appear only in the result sheet.

“U” denotes that the student has failed to pass in that course. “WD” denotes withdrawal from the exam for the particular course. The grades U and WD will figure both in the Grade Sheet as well as in the result sheet. In both cases, the student has to re-appear for the End Semester Examinations.

If the grade U is given to Theory Courses / Laboratory Courses it is not required to satisfy the attendance requirements, but has to appear for the end semester examination and fulfill the passing requirements to declare as pass in the respective courses. If the grade **U** is given to Project work, the course has to be registered again and attendance requirement (vide clause 11) should be satisfied.

- 14.2** 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**.

14.3 Grade Sheet

After results are declared, Grade Sheets will be issued to each student, which will contain the following details:

- The College Name and Affiliated University.
- The list of courses registered during the semester, and the grade scored.
- The Grade Point Average (GPA) for the semester.
- The Cumulative Grade Point Average (CGPA) of all courses enrolled from the first semester onwards.

GPA for a semester is the ratio of the sum of the products of the credits assigned to each course and the grade point obtained for that course to the sum of the total number of credits acquired in the semester.

CGPA will be calculated in a similar manner, considering all the courses enrolled from the first semester to last semester rounded up to 2 decimal points. "U", "SA" and "AB" grades will be excluded for calculating GPA and CGPA.

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

where C_i - is the Credits assigned to the course

GP_i - is the point corresponding to the grade obtained for each Course

n - is a number of all Courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA

15.0 TRANSPARENCY IN EVALUATION

Before the publication of End Semester results, the students are allowed to verify the answer scripts of all subjects. Consequently, the application for revaluation of the answer scripts for those subjects is not permitted.

The verification of answer scripts is not allowed for practical courses and project work.

16.0 ELIGIBILITY FOR THE AWARD OF THE DEGREE

A student shall be declared to be eligible for the award of the Degree only when he/she has

- Successfully gained the required number of total credits **75** as specified in the curriculum corresponding to his/her Programme of study within the stipulated time.

- Successfully completed the course requirements, appeared for the End-Semester examinations and passed all the subjects prescribed in all the 4 semesters within a maximum period of 4 years reckoned from the commencement of the first semester to which the student was admitted.
- Successfully completed any additional courses prescribed by the Dean (Academic), whenever any candidate is readmitted under Regulations other than R – 2023 and transferred from other college.
- No disciplinary action is pending against him/her.
- The award of the Degree must have been approved by the syndicate of the University.

17.0 CLASSIFICATION OF THE DEGREE AWARDED

17.1 First Class with Distinction

A candidate who satisfies the following conditions shall be declared to have passed the examination in First Class with Distinction.

- Should have passed the End Semester Examination in all the courses of all the four semesters in his/her First Appearance **within three years**, which includes authorized break of study of one year. Withdrawal from examination (vide **clause 16.0**) will not be considered as an appearance.
- Should have secured a CGPA of not less than 8.50
- Should not have been prevented from writing end semester examination due to lack of attendance in any of the courses.

17.2 First Class

A candidate who satisfies the following conditions shall be declared to have passed the examination in First Class.

- Should have passed the End Semester Examination in all the courses of all the four semesters **within three years**, which includes one year of authorized break of study (if availed) or prevention from writing the End Semester examination due to lack of attendance (if applicable).
- Should have secured a CGPA of not less than **6.50**.

17.3 Second Class

All other students (not covered in clauses 17.1 and 17.2) who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in **Second Class**.

- 17.4** A student who is absent in End Semester Examination in a course / project work after having registered for the same shall be considered to have appeared in that examination (except approved withdrawal from end semester examinations as per clause 18) for the purpose of classification.

18.0 PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION

- 18.1** A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Head of the Institution) be granted permission to withdraw from appearing for the End Semester Examination in any course or courses in **ANY ONE** of the semester examinations during the entire duration of the degree programme. The application shall be sent to COE through the Head of the Institutions with required documents.

- 18.2** Such withdrawal shall be permitted only once during the entire period of study.

- 18.3** Withdrawal application is valid only if the student is eligible to write the examination (**clause 7**) and if it is made within 10 working days before the commencement of the End semester examination in that course or courses and also recommended by the HOD and approved by the Principal.
- 18.4** Notwithstanding the requirement of mandatory 10 working days notice applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 18.5** Withdrawal shall not be construed as an appearance for the eligibility of a candidate for First Class with Distinction.
- 18.6** Withdrawal from the End semester examination is NOT applicable to arrear courses of previous semesters.
- 18.7** The candidate shall appear for the End semester examination to be conducted in the subsequent semester.
- 18.8** Withdrawal is permitted for the end semester examinations in the final semester, as per clause 17.1

19.0 PROVISION FOR AUTHORISED BREAK OF STUDY

- 19.1** 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 the extraordinary situation, the candidate may apply for an additional break of study not exceeding another one year by paying the prescribed fee for a break of study. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he/she applies to the Director, Academic Courses, Anna University, Chennai, in advance, but not later than the last date for registering for the End semester examination of the semester in question, through the Principal stating the reasons therefore and the probable date of rejoining the programme.
- 19.2** The student is permitted to rejoin the programme after the break of study shall be governed by the Curriculum and Regulations in force at the time of rejoining. If the Regulation is changed, then, those candidates may have to do additional courses as prescribed by the Dean (Academic).
- 19.3** The authorized break of study (for a maximum of one year) will not be counted for the duration specified for passing all the courses for the purpose of classification. However, an additional break of study granted will be counted for the purpose of classification.
- 19.4** The total period for completion of the programme reckoned from the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in **clause 5.1** irrespective of the period of break of study so that he/she may be eligible for the award of the degree.
- 19.5** If any student is detained for want of requisite attendance, progress and good conduct, the period spent in that semester shall not be considered as permitted "Break of Study" or "Withdrawal" is not applicable for this case.
- 19.6** If a student in Full Time mode wants to take up job / start-up / entrepreneurship during the period of study he/she shall apply for authorised break of study for one year. The student shall undertake the job / start-up / entrepreneurship only after getting approval of the same by the Dean (Academic) with due proof to that effect.
- 19.7** No fee is applicable to students during the Break of Study period.

20.0 DISCIPLINE

Every student is required to decently dress to observe discipline and decorum both inside and outside the college and not to indulge in any activity which affects the prestige of the college/university.

If a student indulges in malpractice in any of the end semester examinations, he / she has to appear before the enquiry committee, and he / she shall be liable for punitive action based on the recommendations of the committee.

21.0 REVISION OF REGULATIONS AND CURRICULUM

The curriculum and syllabi under this regulation will be for **four years**. However, the Academic Council of the College reserves the right to revise or change or amend the regulations, the scheme of examinations, the curriculum, and the syllabi from time to time if found necessary.

22.0 SPECIAL CASES

In the event of any clarification in the interpretation of the above rules and regulations, they shall be referred to the Standing Committee. The Standing Committee will offer suitable interpretations/clarifications / amendments required for special case on such references and get them ratified in the next meeting of the Academic Council. The decision of the Academic Council will be final.

ANNEXURE-I

Total credits for M.E./ M.Tech. Degree Programmes offered in the Institution

Sl. No.	Name of the Programme	Minimum Total Credits*
1.	M.E. Energy Engineering	75
2.	M.E. Computer Science and Engineering	75
3.	M.E. High Voltage Engineering	71
4.	M.E. Embedded System Technologies	75
5.	M.Tech. Information and Cyber Warfare	75

- * Minimum Total Credits to be earned by the student admitted to the particular PG Programme to become eligible for the award of Degree under **Clause 5.0** of Regulations 2023 (PG).