

MAHENDRA INSTITUTE OF TECHNOLOGY



(Autonomous)

Approved by AICTE, New Delhi | Affiliated to Anna University | Accredited with 'A' Grade by NAAC
Salem-Tiruchengode Highway, Mahendhirapuri, Mallasamudram, Namakkal Dt. - 637 503.

B.E. / B.Tech Regulations 2022

Applicable for the Students admitted in the academic year 2022-2023



MAHENDRA INSTITUTE OF TECHNOLOGY

(Autonomous)

Mahendhirapuri, Mallasamudram, Namakkal DT - 637 503



Regulations 2022
(CHOICE BASED CREDIT SYSTEM)

**BACHELOR OF ENGINEERING (B.E.) /
BACHELOR OF TECHNOLOGY (B.Tech.) DEGREE
PROGRAMMES**

Member Secretary

Dean(Academics)

Principal

REGULATIONS 2022
CHOICE BASED CREDIT SYSTEM (CBCS)
Common to all B.E. / B.Tech. Full-Time Programmes
(For the students admitted to B.E. / B.Tech. Programme at
Mahendra Institute of Technology (Autonomous) from
the Academic year 2022 – 2023 onwards)

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Regulations 2022
CHOICE BASED CREDIT SYSTEM (CBCS)

DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY

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

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In this Regulations, unless the context otherwise specifies:

- I. **“Programme”** means Degree Programme (i.e) B.E. / B.Tech. Degree Programme.
- II. **“Discipline”** means Branch or Specialization of B.E. / B.Tech. Degree Programme, like Civil Engineering, Information Technology, etc.,
- III. **“Course”** means a Theory or Practical subject that is normally studied in a semester, like Mathematics, Physics, Engineering Graphics, etc.,
- IV. **“Controller of Examinations”** means the Authority of the college who is responsible for all activities of the Autonomous College Examinations.
- V. **“Head of the Institution”** means the Principal of the college.
- VI. **“Chairman”** means Head of the Faculty.
- VII. **“Head of the Department”** means Head of the Department concerned.
- VIII. **“University”** means Anna University, Chennai.
- IX. **“College”** means Mahendra Institute of Technology (Autonomous).
- X. **“B.E.,”** means Bachelor of Engineering and **“B.Tech.”** means Bachelor of Technology.

2. **ADMISSION PROCEDURE**

As per the norms of Anna University, Chennai and Government of Tamil Nadu.

3. **PROGRAMMES OFFERED**

09 UG Programmes and 03 PG Programmes are offered in the academic year 2022-2023. A student may be offered admission to any one of the programmes of study conducted in Mahendra Institute of Technology (Autonomous) approved by the AICTE, New Delhi and affiliated to Anna University, Chennai.

4. **STRUCTURE OF THE PROGRAMMES**

4.1 **Categorization of Courses**

Every B.E./B.Tech Degree Programme will have a curriculum with Syllabi consisting of theory and Practical courses that shall be categorized as given below:

- i. **Humanities and Social Sciences (HS)** courses include Technical English, Employability Skills, Engineering Ethics and Human Values, Communication skills, Environmental Science and Engineering.
- ii. **Basic Sciences (BS)** courses include Mathematics, Physics, Chemistry, Biology, etc.
- iii. **Engineering Sciences (ES)** courses include Engineering practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.
- iv. **Professional Core (PC)** courses include the core courses relevant to the chosen specialization/branch.
- v. **Professional Elective (PE)** courses include the elective courses relevant to the chosen specialization/ branch.
- vi. **Open Elective (OE)** courses include the courses relevant to the chosen specialization / branch which a student can choose from the curriculum of other B.E. / B. Tech. programmes offered in the College and courses offered by the Departments of Science and Humanities.

- vii. **Employability Enhancement Courses (EEC)** include Project Work and/or Internship, Seminar, Professional Practices, Case Study and Industrial/Practical Training.
- viii. **Mandatory courses (MC)** include the courses recommended by the regulatory bodies such as AICTE, UGC etc.,

4.2 Personality and Character Development

All students are encouraged to enroll in any one of the personality and character development programmes (NSS/NSO/YRC) and undergo training for about 80 hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid.

4.2.1 National Service Scheme (NSS) will have social service activities in and around the College / Institution.

4.2.2 National Sports Organization (NSO) will have sports, Games, Drills and Physical exercises.

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

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

4.3 Mandatory Two- Week Induction Programme

The students are expected to undergo a mandatory two week induction programme comprising of physical activity, creative arts, universal human values, proficiency modules, lectures by eminent people, visits to local areas and familiarization to department/branch immediately after admission.

4.4 Number of courses per semester

Each semester curriculum shall normally have a blend of lecture courses not exceeding 8 and Laboratory courses and Employability Enhancement Course(s) not exceeding 4. Each Employability Enhancement Course may have credits assigned as per clause 4.4. However, the total number of courses per semester shall not exceed 12 (including EEC). Pre-final semester may have 3 to 6 theory courses, Project work - Phase –I and laboratory courses not exceeding 2. The

final semester may have a blend of 2 or 3 theory courses and Project work – Phase – II.

4.5 Credit Assignment

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

Table 1 Credit Assignment

Contact period per week	Credit
1 Lecture Period	1
1 Tutorial Period	1
2 Practical Periods (Laboratory / Seminar / Project Work, etc.)	1

The Contact Periods per week for Tutorials and Practical can only be in multiples of 2.

4.6 Industrial Training / Internship

4.6.1 The students may undergo Industrial training for a period as specified in the curriculum during summer / winter vacation. In this case, the training has to be undergone continuously for the entire period. The students may undergo Internship at any Research organization / University for the period prescribed in the curriculum during summer / winter vacation, in lieu of Industrial training.

4.6.2 If Industrial Training / Internship is not prescribed in the curriculum, the student may undergo Industrial Training / Internship optionally. If the student earns three credits in Industrial Training / Internship, the student may drop one Professional Elective. In such cases, Industrial Training / Internship need to be undergone continuously in one organization only. However, if the number of credits earned is 1 or 2, these credits shall not be considered for classification of the degree. The student is allowed to undergo a maximum of 6 weeks Industrial Training / Internship during the entire duration of study.

Table 2 Credits assignment

Duration of Training / Internship	Credits
2 Weeks	1
4 Weeks	2
5 Weeks	3

4.7 Industrial Visit

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

4.8 Online Courses / Self Study Courses

Students may be permitted to credit online courses (which are provided with certificate) from Fifth semester onwards with the approval of Principal subject to a maximum of two / three credits per course. An online course can be considered equivalent to one elective course. Online course credits can be transferred to program / open elective course with the approval of Course Credit Transfer Committee constituted by the Head of the Institution.

4.9 Medium of Instruction

The medium of instruction is English for all courses, examinations, seminar presentations and project work / case study reports etc.,

5.0 DURATION OF THE PROGRAMMES

5.1 A student is normally expected to complete the B.E. / B.Tech., Programme in 4 academic years (8 Semesters) but in any case **not more than 7 years (14 Semesters) for HSC/Equivalent** and **not more than 6 years (12 Semesters) for Lateral Entry candidates.**

5.2 Each semester shall normally consist of 75 teaching days or 540 periods of 50 minutes each. The Principal shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus covering the full content of the syllabus for the course being taught.

5.3 The Head of the Institution / Principal may conduct additional classes for

improvement, special coaching, conduct of model test *etc.*, over and above the specified periods. But for the purpose of calculation of attendance requirement or writing the end semester examinations (as per clause 7) by the students 450 periods conducted within the specified academic schedule alone shall be taken into account and the overall percentage of attendance shall be calculated accordingly.

5.4 The final Examination will ordinarily follow immediately after the last working day of the semester commencing from I semester as per the academic schedule prescribed from time to time.

5.5 The total duration for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum duration specified in clause 5.1 irrespective of the period of break of study (vide clause 16) or prevention (vide clause 7.4) in order that the student may be eligible for the award of the degree (vide clause 14).

6.0 COURSE ENROLLMENT AND REGISTRATION

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

6.2 Every student shall enroll for the course of the succeeding semester in the current semester. However, the student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the concerned semester.

6.3 No course shall be offered by a Department unless a minimum of 10 students register for that course. However, if the students admitted in the associated branch and semester is less than 10, this minimum will not be applicable.

6.4 After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Assessment marks and appear for the End Semester Examinations.

6.5 Each student on admission shall register for all the courses prescribed in the curriculum in the student's first Semester of study.

6.6 The enrollment for all the courses of the Semester II will commence 10 working days prior to the last working day of Semester I. The student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the Semester II.

6.7 The enrollment for the courses of the 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 Faculty Advisor. If the student wishes, the student may drop or add courses (vide clause 6.5) within **five** working days after the commencement of the concerned semester and complete the registration process duly authorized by the Faculty Advisor.

6.8 Flexibility to Add or Drop courses

6.8.1 A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree. However, if the student wishes, then the student is permitted to earn more than the total number of credits prescribed in the curriculum of the student's programme.

6.8.2 From the III to VIII semesters, the student has the option of registering for additional courses or dropping existing courses. Total number of credits of such courses cannot exceed 6. However the maximum number of credits the student can register in a particular semester cannot exceed 30 credits. The student shall register for the project work in the VIII semester only.

7.0 REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION OF A COURSE

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 end semester examination of a particular course.

7.1 Ideally every student is expected to attend all periods and earn 100% attendance. However, the student shall secure not less than 75% attendance

course wise taking into account the number of periods required for that course as specified in the curriculum.

7.2 However, a candidate who secures overall attendance between 66% and less than 75% in any course in the current semester due to medical reasons (hospitalization/ accident / specific illness) or due to participation in the College / University / State / National / International level Sports events with prior permission from the Principal through the 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 examination of that course. In all such cases, the students should submit the required documents on joining after the absence to the Principal through the Faculty Advisor and Head of the Department.

7.3 A student shall normally be permitted to appear for End semester examination of the course if the student has satisfied the attendance requirements (vide Clause 7.1 – 7.2) and has registered for examination in those courses of that semester by paying the prescribed fee.

7.4 Students who do not satisfy clause 7.1 and 7.2 and who secure less than 65% attendance in a course will not be permitted to write the End-Semester Examination of that course. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed.

8.0 CLASS ADVISOR

There shall be a class advisor for each class. The class advisor will be one among the course teachers 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 faculty advisor shall be:

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

- The class advisor may discuss with or inform the parents about the progress /performance of the students concerned, if necessary
- To attend to the various activities of the students like industrial visits, seminar, workshop and internship, etc.
- To inform the students about the various facilities and activities available
- To enhance the student's curricular and co-curricular activities
- To guide student enrollment and registration of the courses

9.0 COMMON COURSE COMMITTEE

A theory course handled by more than one teacher shall have a "Common Course Committee" comprising of all teachers teaching that course and some students who have registered for that course. There shall be two student representatives from each program of that course. One of the teachers shall be nominated as Course Coordinator by the Faculty Chairman duly approved by the Principal.

The first meeting of the Common Course Committee shall be held within fifteen days from the date of commencement of the semester. The nature and weightage of the continuous assessments shall be discussed in the first meeting, within the framework of the Regulations.

Two or three subsequent meetings in a semester may be held at suitable intervals.

During these meetings, the student members shall meaningfully interact and express their opinions and suggestions of all the students to improve the effectiveness of the teaching-learning process. It is the responsibility of the student representatives to convey the proceedings of these meetings to the whole batch.

In addition the "Common Course Committee" (without the student representatives) shall meet to ensure uniform evaluation of continuous assessments after arriving at a common scheme of evaluation for the assessments (vide clause 10).

Wherever feasible, the common course committee (without the student representatives) shall prepare a common question paper for the continuous

assessment tests also. The question paper for the end semester examination is common.

9.1 MULTIPLE COURSES COMMITTEE

If different courses in a semester, handled by a specific department faculty members or the faculty members from various departments, there will be a “Multiple Courses Committee”. The Committee comprises of all the above faculty members and two student representatives from each course. One of the above teachers, nominated by the Head of the Department shall coordinate the activities of this committee.

The function of this committee is similar to that of the common course committee, which is as follows:

The first meeting of the Multiple Courses Committee shall be held within fifteen days from the date of commencement of the semester. The nature and weightage of the continuous assessments shall be decided in the first meeting, within the framework of the Regulations. Two or three subsequent meetings in a semester may be held at suitable intervals.

During these meetings, the student members shall meaningfully interact and express their opinions and suggestions of all the students to improve the effectiveness of the teaching-learning process. It is the responsibility of the student representatives to convey the proceedings of these meetings to all the students.

9.2 OVERALL MONITORING COMMITTEE

There shall be a overall monitoring committee for each semester of a programme which comprises of (i) the Course Coordinators / Course teachers (as applicable), (ii) the Faculty-in-charge of the programme and (iii) the Head of Department. This overall monitoring committee shall meet periodically to discuss academic related matters, progress and status of the students of the semester concerned.

The overall monitoring committee can invite the Faculty Advisors or students for any of the committee meetings if necessary.

10.0 ASSESSMENT PROCEDURES FOR AWARDING MARKS

All B.E/B.Tech., Programmes consist of Theory Courses, Laboratory Courses and Employability Enhancement Courses. Employability Enhancement Courses include Project Work, Seminar, Professional Practices, Case Study and Industrial/Practical Training. Appearance in End Semester Examination is mandatory for all courses including Theory, Laboratory and Project work.

Performance in each course of study shall be evaluated based on (i) Continuous assessments throughout the semester and (ii) End Semester Examination at the end of the semester. For Theory Courses out of 100 marks, the maximum marks for Continuous Assessment is fixed as 40 and the End Semester Examination carries 60 marks. For Laboratory Courses out of 100 marks, the maximum marks for Continuous Assessment is fixed as 60 and the End Semester Examination carries 40 marks. The continuous assessment is 60 marks for the Project Work, and project report evaluation and viva-voce examination carries 40 marks. All other courses included under Employability Enhancement Courses are evaluated by Continuous Assessments only. (i.e.) Each course shall be evaluated for a maximum of 100 marks as shown below:

S.No	Category of course	Continuous Assessments	End-Semester Examinations
i.	Theory Courses	40 Marks	60 Marks
ii.	Laboratory Courses	60 Marks	40 Marks
iii.	Project Work	60 Marks	40 Marks
iv.	All other EEC Courses	100 Marks	-

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' for every semester which consists of attendance marked in each theory / Laboratory/EEC class, the assessment marks and the record of class work (topics covered), separately for each course handled by the teacher. This should be submitted to the Head of the Department periodically (at

least three times in a semester) for checking the syllabus coverage and the records of assessment marks and attendance. The Head of the Department will affix his/her signature and date after due verification. At the end of the semester, the record should be verified by the Head of the Department who shall keep this document in safe custody for three years. The records of attendance and assessment of both current and previous semesters should be available for inspection.

10.1 ASSESSMENT FOR THEORY COURSES

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

The End Semester Examinations for theory courses will be of 3 hours duration and shall normally be conducted between October and December during the odd semesters and between April and June during the even semesters. End semester Examination is mandatory requirement for passing the course and every student should appear for the examination for theory, laboratory courses and project work.

Two assessments each carrying 100 marks shall be conducted during the semester by the Department / College 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 (This also implies equal weightage to the two assessments).

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

*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.

In case a student misses the assessment due to medical reasons (hospitalization / accident / specific illness) or due to participation in the College / University / State / National / International level Sports events, the student can appear for the assessment in the later date with prior permission from the Principal through the HOD concerned.

The students must attend the end semester examination for 100 marks and the marks obtained shall be converted to 50 marks.

10.2 ASSESSMENT FOR LABORATORY COURSES

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 are to be maintained. There shall be at least one test. The criteria for arriving at the Internal Assessment marks of 60 are 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.

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

The End Semester Examinations for Laboratory courses will be of 3 hours duration and shall normally be conducted between October and December during the odd semesters and between April and June during the even semesters.

The student who fails (vide clause 11.1) in the laboratory course shall register for the end semester examination in the subsequent semesters, once awarded marks in the Continuous Assessment Examinations will be carried over for the subsequent semesters.

10.3 ASSESSMENT FOR THEORY CUM LABORATORY COURSES

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 is 60%.

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

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

10.4 MANDATORY NON-CREDIT COURSES

For every Mandatory Non-credit Course there will be two continuous assessments carrying equal marks which include tests, assignments, seminars etc. The total marks obtained in all two assessments put together shall be proportionately reduced for 100 marks and rounded to the nearest integer.

10.5 ASSESSMENT FOR PROJECT WORK

For Project work out of 100 marks, the maximum marks for Continuous Assessment is fixed as 50 and the End Semester Examination (project report evaluation and viva-voce examination) carries 50 marks. Project work may

be assigned to a single student or to a group of students not exceeding 4 per group.

There shall be two assessments (each 100 marks) during the semester by a review committee. The student shall make presentation on the progress made before the committee. The Head of the Department shall constitute a review committee for each programme. There shall be a minimum of three members in the review committee. The project Guide will be one of the members of the Review Committee. The total marks obtained in the two Reviews shall be 50 marks.

The student(s) is expected to submit the project report on or before the last working day of the semester. The End Semester Examinations for project work shall consist of evaluation of the final project report submitted by the student or students of the project group by an external examiner followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the guide of the project group and an internal examiner. The Head of the Department shall nominate Internal Examiners and External Examiners shall be appointed by the Controller of Examinations for the End Semester Examinations of the Project Work.

The continuous assessment and End Semester Examinations marks for Project Work and the Viva-Voce Examination will be distributed as indicated below.

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

The students must attend the end semester examination for 100 marks and the marks obtained shall be converted to 40 marks.

If the project report is not submitted on or before the specified deadline, an extension of time up to a maximum limit of 10 days may be given for the submission of project work with due approval obtained from the Principal and Controller of Examinations through the Head of the Department concerned. If the project report is not submitted even beyond the extended time then the student(s) is deemed to have failed in the Project Work. The failed student(s) shall register for the same in the subsequent semester.

10.6 ASSESSMENT FOR SEMINAR / PROFESSIONAL PRACTICES / CASE STUDY:

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

10.7 ASSESSMENT FOR INDUSTRIAL / PRACTICAL TRAINING / INTERNSHIP / SUMMER PROJECT

The Industrial / Practical Training shall carry 100 marks and shall be evaluated through continuous assessment only. At the end of Industrial / Practical training / internship / Summer Project, the student shall submit a brief report on the training undergone and a certificate from the organization concerned. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Department. Certificates (issued by the Organization) submitted by the student shall be attached to the mark list and sent to Controller of Examinations by the Head of the Department.

10.8 ASSESSMENT FOR ONLINE COURSE

Students may be permitted to credit online courses (which are provided with certificate) with the approval of Departmental Consultative Committee, HOD and Principal subject to a maximum of three credits. This online course of 3 credits can be considered instead of one elective course. Departmental Consultative Committee will take a decision on the evaluation methodology for the online course. The Committee can decide whether to evaluate the online courses through Continuous assessment and End Semester Examination or through End Semester Examination only and same may be conveyed to the Controller of Examinations and Principal at the beginning of the semester when the course is offered.

The student needs to obtain certification to become eligible for writing the End Semester Examination to be conducted by the College. The Head of the Department may identify a faculty member as coordinator for the course, who is responsible for evaluation process. The course shall be evaluated through the End Semester Examination only. A committee consisting of the Head of the Department, coordinator and a senior Faculty member nominated by the Head of the Department shall assign the grades to the students based on their relative performance.

10.9 ASSESSMENT FOR SELF STUDY COURSE

The Faculty member approved by the Head of the Department shall be responsible for periodic monitoring and evaluation of the course. The course shall be evaluated through Continuous Assessment (as decided by the Departmental Consultative Committee) and End Semester Examination. The evaluation methodology shall be the same as that of a theory course (vide clause 10.1). A committee consisting of the Head of the Department, the Faculty Member and another senior Faculty member nominated by the Head of the Department with the approval of the Principal shall assign the grades to the students based on their relative performance.

11. PASSING REQUIREMENTS

11.1 A candidate who secures not less than 50% of total marks prescribed for the course with a minimum of 45% of the marks prescribed for the end-

semester Examination in theory and practical courses (including Project work), shall be declared to have passed the Examination.

11.2 If the course, in which the student has failed, is a professional elective or an open elective, the student may be permitted to register for the end semester examinations in the subsequent semesters, once awarded marks in the Continuous Assessment Examinations will be carried over for the subsequent semesters. Otherwise the student is permitted to register any other professional elective or open elective course in the subsequent semesters, attend the classes and earn marks in the Continuous Assessment Examinations and fulfill the attendance requirements as per Clause 7.

11.3 If a student fails to secure a pass in a laboratory course, the student shall register for the end semester examination in the subsequent semesters, once awarded marks in the Continuous Assessment Examinations will be carried over for the subsequent semesters.

11.4 If a student fails to secure a pass in project work, the student shall register for the end semester examination in the subsequent semesters, once awarded marks in the Continuous Assessment Examination will not be carried over for the subsequent semesters.

11.5 For EEC courses except project work, the passing requirement for the courses which are assessed only through continuous assessment shall be determined based on the marks obtained in continuous assessment tests.

11.6 A student can apply for revaluation of the student's end semester examination answer paper in a theory course, within 2 weeks from the declaration of results, on payment of a prescribed fee along with prescribed application to the Controller of Examinations recommended by the Principal. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Department. Revaluation is not permitted for laboratory course and project work.

11.7 Candidate not satisfied with Revaluation can apply for Review Revaluation of his/ her examination answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to

Controller of Examinations through the Head of the Institution. Candidates applying for photocopy-cum-Revaluation only are eligible to apply for Review Revaluation.

12 AWARD OF LETTER GRADES

The award of letter grades will be decided based on relative grading principle. The relative grading is applicable to ONLY those students who have passed the examination as per the passing requirements enumerated above. For those students who have not passed the examination, Reappearance (RA) shall be awarded as shown in the below Table.

For those students who have passed the course, the relative grading shall be done. The marks of those students who have passed only shall be inputted in the software developed for relative grading by the Anna University. The evolved relative grading method normalizes the results data using the BOX-COX transformation method and computes the grade range for each course separately and awards the grade to each student. For a given course, if the students strength is greater than 30, the relative grading method shall be adopted. However, if the students strength is less than 30 then the fixed grading shall be followed with the grade range as specified below:

Letter Grade	Grade Points
O (Outstanding)	10
A + (Excellent)	9
A (Very Good)	8
B + (Good)	7
B (Above average)	6
C (Satisfactory)	5
RA (Reappearance)	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".

'RA' denotes Reappearance is required for that particular course.

For the Co-curricular activities such as National Service Scheme (NSS) / NSO / YRC, every student shall put in a minimum of 75% attendance in the training and attend the camp compulsorily.

The training and camp shall be completed during the first year of the programme. However, for valid reasons, the Head of the Institution may permit a student to complete this requirement in the second year. A satisfactory grade in the above co-curricular activities is compulsory for the award of degree.

13. **GPA AND CGPA CALCULATION**

The Controller of Examinations shall call for a Result Passing Board meeting after the end-semester examinations to pass the results and forward the same to the Principal. After results are declared, Grade Sheets will be issued to each student which will contain the following details:

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

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

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

Where C_i - is the Credits assigned to the course

GP_i - is the grade point corresponding to the letter grade obtained for each course

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

“CGPA” will be calculated in a similar manner, considering all the courses enrolled from first semester. “RA” grade will be excluded for calculating GPA and CGPA.

14. **ELIGIBILITY FOR THE AWARD OF DEGREE**

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

14.1.1 Successfully gained the required number of total credits as specified in the curriculum corresponding to the student’s programme within the stipulated time.

14.1.2 Successfully completed the course requirements, appeared for the end semester examinations and passed all the subjects prescribed in all the 8 semesters within a maximum period of 7 years reckoned from the commencement of the first semester to which the candidate was admitted.

14.1.3 No disciplinary action pending against the student.

14.2 **CLASSIFICATION OF THE DEGREE AWARDED**

14.2.1 B.E. /B.Tech, B.E /B.Tech (Honours) Specialization in the same Discipline, B.E /B.Tech Minor in other specialization and B.E /B.Tech (Honours)

(i) B.E /B.Tech (Honours) Specialization in the same Discipline

- Should have earned additionally a minimum of 18 credits from any 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

(ii) B.E /B.Tech (Honours)

- Should have earned additional courses (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 specialization

- Should have earned additionally a minimum of 18 Credits in any one of the verticals of other B.E/B.Tech Programmes.
- Should have earned a minimum CGPA of 7.50 for registration upto 3rd Semester.
- Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits as approved by Centre for Academic Courses.
- B.E./ B. Tech. (Hons) Specialisation in the same discipline, B.E / B.Tech. Honors and B.E./B.Tech. minor in other specialisation degree will be optional for students

14.2.1.1 For the categories I(i) and I(ii), the students will be permitted to register the courses from V semester onwards provided the marks carried by the students until III semester should be of CGPA 7.50 and above and cleared all the courses in the first attempt.

14.2.2.2 If a student decided 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 requires 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.

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

14.2.2 FIRST CLASS WITH DISTINCTION:

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

14.2.1.1 Should have passed the examination in all the courses of all the eight semesters in the student's First Appearance within **five** years, which includes authorized break of study of one year. Withdrawal from examination (vide Clause 15) will not be considered as an appearance.

14.2.1.2 Should have secured a CGPA of not less than **8.50**

14.2.1.3 Should NOT have been prevented from writing end semester examination due to lack of attendance in any of the courses.

14.2.3 FIRST CLASS:

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

14.2.3.1 Should have passed the examination in all the courses of all eight semesters **within five years**, which includes one year of authorized break of study or prevention from writing the End Semester Examination due to lack of attendance (if applicable).

14.2.3.2 Should have secured a CGPA of not less than 6.50

14.2.4 SECOND CLASS:

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

14.2.4.1 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 15) for the purpose of classification.

15. PROVISION FOR WITHDRAWAL FROM EXAMINATION:

15.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Principal through the concerned HOD) 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 Principal through HOD with required documents.

15.2 Withdrawal application shall be valid only if the student is otherwise eligible to write the examination (Clause 7) and it shall be made within TEN working days before the commencement of the end semester examination in that course or courses and also recommended by the Head of the Department followed by the approval of the Principal.

15.3 Notwithstanding the requirement of mandatory TEN working days notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.

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

15.5 Withdrawal is permitted for the end semester examinations in the final semester only if the period of study the student concerned does not exceed 5 years as per clause 14.2.1.1.

16. PROVISION FOR AUTHORIZED BREAK OF STUDY

16.1 A student is permitted to go on break of study for a maximum period of one year either as two breaks of one semester each or a single break of one year.

16.2 The student applies for break of study the student shall apply to the Principal in advance, in any case, not later than the last date of the first assessment period. The application duly filled by the student shall be submitted through the Head of the Department to the Principal. In the case of short term employment/training/ internship, the application for break of study shall be forwarded by the Departmental Consultative Committee and approved by the Principal.

16.3 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 in the prescribed format through Head of the Department at the beginning of the readmitted

semester itself for prescribing additional/equivalent courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.

16.4 The total period for completion of the programme reckoned from, the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study in order that the student may be eligible for the award of the degree (vide clause 14).

16.5 In case there is any period of break of study more than the permitted duration of break of study, the student shall be permitted to continue the programme only if the approval is obtained from the Principal through the concerned HOD before the end of the semester in which the student has taken break of study.

16.6 If a student has not reported to the department for a period of two consecutive semesters without any intimation, the name of the student shall be deleted permanently from the college enrollment. Such students are not entitled to seek readmission under any circumstances.

17. DISCIPLINE

Every student is required to observe disciplined and decorous behavior both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the College/University. The Head of the Institution shall constitute a disciplinary committee consisting of Head of the Institution, Head of the departments to which the student concerned belongs, and the Head of another department to enquire into acts of indiscipline and notify the University about the disciplinary action recommended for approval. In case of any serious disciplinary action which leads to suspension or dismissal of a student, then a committee shall be constituted by the Principal to enquire into the matter and the report shall be sent to the University for taking final decision.

If a student indulges in malpractice in any of the examinations, the student shall be liable for punitive action as prescribed by the College Disciplinary

Committee/COE/Principal from time to time.


18. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The College may from time to time revise, amend or change the Regulations, Curriculum, Syllabus and Scheme of examinations through the Academic Council approval if found necessary.

19. LEGAL JURISDICTION

Any legal issues arise due to above Regulations, are having the jurisdiction of Namakkal District Court and the High Court, Chennai only.



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