



MAHENDRAENGINEERING COLLEGE

(Autonomous)

Mahendhirapuri, Mallasamudram, Namakkal DT. -637 503

B.E. / B. Tech. Programme

REGULATIONS - 2024

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 Engineering College (Autonomous) from
the Academic year 2024 – 2025 onwards)**

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B.E. / B. Tech. REGULATIONS 2024
CHOICE BASED CREDIT SYSTEM (CBCS)

DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY

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 Engineering College (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

15 UG Programmes and 09 PG Programmes are offered in the academic year 2024-2025. A student may be offered admission to any one of the programmes of study conducted in Mahendra Engineering College (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. Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

- 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)** like Student Induction Program and Environmental Science.
- ix. **Honors/Minor Degree Courses (HC)**

4.2 Personality and Character Development

All students shall enroll, on admission, in any one of the personality and character development programmes (NCC/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.

National Cadet Corps (NCC) will have about 20 parades.

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

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.

4.2.1. Induction Programme

Students pursuing an undergraduate degree shall participate in the Induction Program.

A list of students who completed the Induction Program satisfactorily will be certified by the Head of the Institution, and the induction program's completion will be noted as "SUCCESSFULLY COMPLETED" on the grade sheet.

The Induction Program will take place later and be documented in the grade sheet upon completion for students who were admitted later or who did not attend it when they first enrolled in the degree program.

4.3 Number of courses per semester

Curriculum of a semester shall normally have a blend of not exceeding 7 theory courses and 3 laboratory courses; Employability Enhancement Course(s) may also be included. Each course may have credits assigned as per clause 4.4. However, the total number of courses per semester shall not exceed 10 (including EEC).

4.4 Credit Assignment

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

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

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

4.5. Industrial Training /Internship

4.5.1 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 from one or two organizations.

The students may undergo Internship at any Reputed Industry/Research organization / University (after due approval from the Department concerned) for the period prescribed in the curriculum during summer / winter vacation, in lieu of Industrial training.

4.5.2 Industrial Training / Internship needs to be undergone with the combinations of one spell for two weeks and another spell for another two weeks from one or two organizations. The credits earned will be indicated in the Grade Sheet and the earned credits are not considered for the classification of the degree. The student is only allowed to undergo a maximum of 4 weeks Industrial Training/ Internship during the entire duration of study.

DURATION OF TRAINING/INTERSHIP	CREDITS
2Weeks	1
4Weeks	2

One week is equivalent to 40 internship hours.

4.6 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.

4.7 Online Courses

4.7.1 Students may be permitted to credit maximum three online courses which shall be offered with the certificate for the entire duration of the Programme from second semester onwards subject to a minimum 3 credits per course.

4.7.2 An online course can be considered equivalent to only elective course. The credits for online course can be transferred to Programme elective/open elective course with the approval of course credit transfer committee constituted by the Principal.

4.8 **Medium of Instruction**

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

4.9 **B.E. / B. Tech. (Honors) and B.E. / B. Tech. minor with specialization**

B.E /B.Tech. Honours

The students should have earned additional courses (minimum of 18 credits) from more than one vertical of the same Programme

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

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

B.E. /B. Tech. (Honors) Specialization in the same discipline

The student should have earned additionally a minimum of 18 credits from a vertical of the same Programme.

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

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

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

The student should have earned additionally a minimum of 18 credits in anyone of the verticals of other B.E/B.Tech Programmes.

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

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

1. For these 18 credits students can optionally enroll and study a maximum of 6 credits in online mode like SWAYAM-NPTEL platform (in addition to the three online courses permitted for courses of curriculum).

2. B.E / B.Tech. (Honours) and B.E./B.Tech. minor with specialization will be optional for students and the students shall be permitted to select any one of them only.

3. The students, including Lateral Entry, shall be permitted to register for the

courses from Semester V onwards provided the students have earned a minimum CGPA of 7.50 until Semester III and have cleared all the courses in the first attempt.

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

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

6. If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, the courses with higher grades shall be considered for the calculation of CGPA.

7. Remaining courses shall be printed in the grade sheet however, they will not be considered for calculation of CGPA and the same shall be indicated in a foot note appropriately.

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

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

10. Remaining courses shall be printed in the grade sheet, however, they will not be considered for calculation of CGPA and the same shall be indicated in a foot note appropriately. If the student has failed in the additional courses or faced shortage of attendance, they will not be printed in the grade sheet and will not be considered for CGPA calculation and classification of degree. The student has to enroll for these additional courses separately and pay a tuition fee for studying these six additional courses and pay additional exam fee.

5. 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 540 periods conducted within the specified academic schedule alone shall be taken into account and the overall percentage of attendance shall be calculated accordingly. 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.
- 5.4** 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. 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.
- 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.

- 6.4.1 Each student on admission shall register for all the courses prescribed in the curriculum in the student's first and second semester of study.
- 6.4.2 The enrollment for all the courses of the Semester III will commence 10 working days prior to the last working day of Semester II. The student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the Semester III.

6.5 Flexibility to Add or Drop courses

- 6.5.1 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.
- 6.5.2 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 36 credits. The student shall register for the final project work in the VIII semester only.

7. 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 classes of all the courses and secure 100% attendance. However, in order to give provision for certain unavoidable reasons such as medical / participation in sports, the student is expected to attend at least 75% of the classes. Therefore, he/she shall secure not less than 75% (after rounding off to the nearest integer) of overall attendance.
- 7.2 However, a candidate who secures overall attendance between 65% and 74% in the current semester due to medical and other reasons (prolonged hospitalization / accident / specific illness/ participation in sports events)

may be permitted to appear for the current semester examinations subject to the condition that the candidate shall submit the medical certificate / sports participation certificate attested by the Head of the Institution.

- 7.3 A student shall normally be permitted to appear for end semester examinations if the student has satisfied the attendance requirements (vide Clause 7.1 – 7.2) and has registered for examinations by paying the prescribed fee.
- 7.4 Candidates who secure less than 65% overall attendance and candidates who do not satisfy the clause 7.1 and 7.2 shall not be permitted to write the examinations at the end of the semester and not permitted to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed.

8. **FACULTY ADVISOR**

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

The responsibilities for the faculty advisor shall be:

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

9. COURSE COMMITTEES

9.1 CLASS COMMITTEE

9.1.1 Every class shall have a class committee consisting of teachers of a class concerned, student representatives (minimum 10% of the students) and a chairperson who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching-learning process. The functions of the class committee include

- Solving problems experienced by students in the class room and in the laboratories
- Clarifying the Regulations of the degree programme and the details of rules therein particularly (clause 5 and 7) which should be displayed on college Notice-Board
- Informing the student representatives about the academic schedule including the dates of assessments and the syllabus coverage for each assessment
- Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing / project work / seminar, etc.) the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.
- Analyzing the performance of the students of the class after each assessment and finding the ways and means of solving problems, if any.
- Identifying the slow learners, if any, and requesting the teachers concerned to provide some additional guidance or help or coaching to such slow learners

9.1.2 The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Head of the Institution.

- 9.1.3 The class committee shall be constituted within the first week of each semester.
- 9.1.4 Chairperson of the class committee may invite the Faculty advisor(s) and the Head of the Department to the class committee meetings.
- 9.1.5 Head of the Institution may participate in any class committee meetings of the Institution.
- 9.1.6 Chairperson is required to prepare the minutes of every meeting, submit the same to Head of the Institution within two days of the meeting and arrange to circulate it among the students and teachers concerned. 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.
- 9.1.7 The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. The Class Committee Chairperson shall put the cumulative attendance particulars of each student on the Notice Board at the end of every such meeting to enable the students to know their attendance details to satisfy the clause 7 of this Regulations. During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

9.2 COURSE COMMITTEE FOR COMMON COURSES

1. Each common theory course offered to more than one discipline or group shall have a “Course Committee” comprising all the teachers teaching the common course with one of them nominated as Course Coordinator.
2. 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 or to several departments.
3. The committee shall meet in order to arrive at a common scheme of evaluation for the continuous assessment examination(s) and to solve the common course related problems, if any. Wherever feasible, the course

committee may also prepare a common question paper for the continuous assessment examination(s).

10. **ASSESSMENT PROCEDURES FOR AWARDING MARKS**

1. 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.

2. 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.

3. 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 40 marks for the Project Work, and project report evaluation and viva-voce examination carries 60 marks.

4. Integrated courses will have 50 marks for continuous assessment and 50 marks for end semester examinations. 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	60Marks	40Marks
iii.	Integrated courses	50 Marks	50 Marks
iv.	Project Work	60Marks	40Marks
v.	All other EEC Courses	100 Marks	-

5. 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.

6. 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 project work and integrated courses.

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 / any other experiential learning 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.

10.2 ASSESSMENT FOR LABORATORY COURSES:

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.

Every laboratory exercise / experiment shall be evaluated based on the student performance during the laboratory class and the student's records maintained. There shall be at least one assessment test. The criteria for arriving at the Continuous Assessment marks of 60 shall be decided at the respective course committee meetings. In general evaluation of laboratory observation and records may be awarded 75 % of marks and 25 % marks may be awarded for the assessment test.

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 PROJECT WORK:

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

There shall be minimum three assessments (each 100 marks) during the semester by are view committee. The student shall make presentation on the progress made before the committee. The Head of the Department shall constitute are view 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 three Reviews shall be 60 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			
Review I	Review II	Review III	Report Evaluation		Viva –Voce Examination	
			Supervisor	External Examiner	Internal Examiner	External Examiner
20	20	20	10	10	10	10

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.

10.4. ASSESSMENT FOR INTEGRATED COURSES

If there is theory course with laboratory component (Integrated course), there shall be two assessments; the first assessment will be similar to assessment of theory of course and the second assessment will be similar to laboratory course respectively. The weightage of the first assessment shall be 50 % and the second assessment is 50 %. Finally the weighted average shall be converted in to 50 marks for internal assessment.

10.5 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%).

10.6 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.

10.7 ASSESSMENT FOR ONLINE COURSE

Students may be permitted to credit online courses (which are provided with certificate) with the approval of the online course committee constituted by the Principal subject to a maximum of six credits. This online course of 3 credits can be considered instead of one elective course. The organizations like SWAYAM platform and others that regularly hold examination and award marks will be the ones from which these online courses are chosen. The credits earned shall be transferred and the marks earned shall be converted into grades, provided the student has passed in the examination as per norms of the offering organization.

10.8 VALUE ADDED COURSES

One or two credit industry oriented value added courses are to be introduced as per the recommendation of the Board of Studies. The credits earned will be added over and above the total credits. The credits earned are not included for degree classification.

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 and integrated courses (including Project work), shall be declared to have passed the Examination.
- 11.2** 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.
- 11.3** 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

- 12.1.** All assessments of a course will be done on marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the candidate in each subject as detailed below:

Letter Grade	Grade Points
O (Outstanding)	10
A +(Excellent)	9
A (Very Good)	8
B + (Good)	7
B (Above average)	6
C (Average)	5
U (Reappearance Registration)	0
SA (Shortage of Attendance)	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”.

‘U’ denotes Reappearance is required for that particular course.

‘SA’ denotes shortage of attendance (as per Clause 7) and hence prevented from writing end semester examination.

12.1.1. Relative Grading

For those students who have passed the theory courses, the relative grading shall be done. The marks of those students who have passed only shall be inputted in the software developed by the University for relative grading. If the students’ strength is greater than 30, the relative grading method shall be adopted.

12.1.2. Absolute Grading

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

12.2. For the Co-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS)/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” and “SA” grades 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

- i. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student’s programme within the stipulated time.
- ii. 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.
- iii. Successfully passed any additional courses prescribed by the committee concerned whenever readmitted under regulations other than R-2024 (vide clause 16.3)
- iv. Successfully completed the NCC / NSS / NSO / YRC requirements.
- v. No disciplinary action pending against the student.

14.2 CLASSIFICATION OF THE DEGREE AWARDED

14.2.1 FIRST CLASS WITH DISTINCTION:

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

- Should have passed the examination in all the courses of all the 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.
- 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.

14.2.2 FIRST CLASS:

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

- Should have passed the examination in all the courses of all 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).

- Should have secured a CGPA of not less than **6.50**

14.2.3 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. 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.

16. PROVISION FOR AUTHORIZED BREAK OF STUDY

- 16.1** A student is permitted to go on authorized break of study for a maximum period of one year as a single spell.
- 16.2** The student shall apply to the Principal in advance, in any case, not later than the last date of the first assessment period if he/she applies for break of study. 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 Head of the Department 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

- 17.1** 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.
- 17.2** 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.
- 17.3** If a student indulges in malpractice in any of the tests or end semester examinations, the student shall be liable for punitive action as per the examination rules 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.
