



MAHENDRA ENGINEERING COLLEGE

(Autonomous)

Mahendhirapuri, Mallasamudram, Namakkal DT. -637 503

REGULATIONS 2019

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 2019 - 2020 onwards)**

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B.E. / B. Tech. REGULATIONS 2019

CHOICE BASED CREDIT SYSTEM (CBCS)

DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In this Regulations 2019, 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. **“Head of the Institution”** means the Principal of the College.
- V. **“Chairman”** means the Head of the Faculty.
- VI. **“Head of the Department”** means Head of the Department concerned.
- VII. **“Controller of Examinations”** means the authority of the College who is responsible for all activities of the Autonomous College Examinations.
- 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

17 UG Programmes are offered at this College. A student may be offered admission to any one of the programmes of study conducted at Mahendra Engineering College approved by AICTE, New Delhi and affiliated to Anna University, Chennai.

4. STRUCTURE OF 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 including Management Courses (HSMC)** include Technical English, Employability Skills, Engineering Ethics and Human Values, Communication skills and Management courses, *etc.*
- ii. **Basic Sciences Courses (BSC)** include Physics, Chemistry, Mathematics and Environmental Sciences, *etc.*
- iii. **Engineering Sciences Courses (ESC)** include Engineering Practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Civil Engineering, *etc.*
- iv. **Professional Core Courses (PCC)** include the core courses relevant to the chosen specialization/branch.
- v. **Professional Elective Courses (PEC)** include the elective courses relevant to the chosen specialization/ branch.
- vi. **Open Elective Courses (OEC)** include the courses from other branches; a student can choose from a list specified in the curriculum of the B.E. / B. Tech. Programmes.
- vii. **Employability Enhancement Courses (EEC)** include Project Work and/or Internship, Seminar, Professional Practices, Case Study, and Industrial/Practical Training, *etc.*
- viii. **Audit Courses (AC)** expose the students to Constitution of India, Essence of Indian Traditional Knowledge, Yoga, English for Research Paper Writing, Value Education, Pedagogy Studies, Stress Management and Personality Development through Life Enlightenment Skills, *etc.* No credits shall be allotted to the audit courses.

There shall be a certain minimum of Core courses and sufficient number of Elective courses that can be opted by the students. The blend of different courses shall be designed that the student, at the end of the programme, would have been trained not only for his/her relevant professional field but also would have developed as a socially conscious human professional.

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, *etc.*

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

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

National Sports Organization (NSO) will have sports, games, drills and physical exercises.

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

While the training activities will normally be during weekends, the camp activities 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**

The curriculum of a semester shall normally have a blend of 4 to 6 theory courses, except the pre-final and final semesters, and laboratory courses, not exceeding 3. In addition, Employability Enhancement Course(s) may also be included. Each course may have credits assigned as per clause 4.5. However, the total number of courses per semester shall not exceed 10 (including EEC). Pre-final semester may have 4 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:

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

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.

Duration of Training / Internship	Credits
2 Weeks	1
4 Weeks	2
6 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 Value Added Courses

The students may optionally undergo Value Added Courses and the credits earned through the Value Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. One / Two credit courses shall be offered by a Department with the prior approval from the Head of the Institution. The details of the syllabus, time table, faculty members and industrial experts may be sent to the Controller of Examinations after getting approval from the Head of the Institution at least one month before the course is offered. Students can earn a maximum of four credits during the entire duration of the Programme.

4.9 Online Courses

Students may be permitted to credit online courses (which are provided with certificate) from second 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.

4.10 The students satisfying the following conditions shall be permitted to carry out their final semester Project Work for six months in industry/research organizations.

- The students should not have current arrears and shall have CGPA of 7.50 and above.
- The student shall undergo the eighth semester courses in the sixth and seventh semesters.
- The Head of Department, in consultation with the faculty members handling the said courses, shall forward the proposal approved by the Head of Institution to the Controller of Examinations at least 2 weeks before the commencement of the sixth semester of the programme.

4.11 Medium of Instruction

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

5. DURATION OF THE PROGRAMMES

- 5.1** A student is ordinarily expected to complete B.E. / B.Tech. Programme in 8 semesters (four academic years) but in any case not more than 14 Semesters for HSC (or equivalent) candidates and not more than 12 semesters for Lateral Entry Candidates.
- 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** The Head of the Institution may conduct additional classes for improvement, special coaching, conduct of internal assessments, etc., over and above the specified periods. But for the purpose of calculation of attendance requirement for 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** End semester examinations will ordinarily follow immediately after the last working day of the semester commencing from first semester as per the academic schedule prescribed from time to time.
- 5.5** 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 (vide clause 17) in order that he/she may be eligible for the award of the degree (vide clause 15).

6. COURSE ENROLLMENT AND REGISTRATION

- 6.1** Each student, on admission, shall be assigned to a Faculty Advisor 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.
- 6.4.1** Each student on admission shall register for all the courses prescribed in the curriculum in the student's first semester of study.
- 6.4.2** 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.
- 6.4.3** 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 Faculty Advisor. If the student wishes, he / she 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.
- 6.5 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 he/she 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 8. However the maximum number of credits the student can register in a particular semester cannot exceed 36 credits. The student shall register Project-1 in VII Semester and Project-2 in VIII Semester

7. REQUIREMENTS FOR APPEARING FOR EXAMINATIONS

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 completion of a semester and appearing for end semester examinations.

- 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. 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 class 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. CLASS COMMITTEE

9.1 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

- 9.2** 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.
- 9.3** The class committee shall be constituted within the first week of each semester.
- 9.4** Chairperson of the class committee may invite the class advisor(s) and the Head of the Department to the class committee meetings.
- 9.5** Head of the Institution may participate in any class committee meetings of the Institution.
- 9.6** 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.
- 9.7** 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.

10 COURSE COMMITTEE FOR COMMON COURSES

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. 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. 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).

11. ASSESSMENT PROCEDURES FOR AWARDING MARKS

All B.E./B.Tech. Programmes consist of Theory Courses, Laboratory Courses and Employability Enhancement Courses which include Project Work, Seminar, Professional Practices, Case Study and Industrial/Practical Training. Appearance in End Semester Examination is mandatory for all theory and laboratory courses including 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 50 and the End Semester Examination carries 50 marks. For laboratory courses and project work out of 100 marks, the maximum marks for Continuous Assessment is fixed as 60 and the End Semester Examination carries 40 marks. All other courses included under Employability Enhancement Courses are evaluated by Continuous Assessments only. Each course shall be evaluated for a maximum of 100 marks as shown below:

S.No.	Category of courses	Continuous Assessments	End-Semester Examinations
i.	Theory Courses	50 Marks	50 Marks
ii.	Laboratory Courses	60 Marks	40 Marks
iii.	Project Work	60 Marks	40 Marks
iv.	All other EEC Courses	100 Marks	-

The end semester examination (theory and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semesters and between April and June during the even semesters. The end semester examination for project work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, supervisor of the project group and the internal examiner.

For the end semester examinations in both practical courses and project work, the internal examiners shall be appointed by the Head of the Department concerned and external examiners shall be appointed by the Controller of Examinations.

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 five 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.

11.1 ASSESSMENT FOR THEORY COURSES

Three tests shall be conducted during the semester by the Department / College. The total marks obtained in each test for 100 marks, put together

out of 300, shall be proportionately reduced for 40 marks and rounded to the nearest integer (This also implies equal weightage to all the three tests). Five marks shall be awarded in each course for the attendance of the students. The internal marks for attendance are calculated for 5 marks as follows:

Theory Course Attendance Percentage	Marks
76-80	1
81-85	2
86-90	3
91-95	4
96-100	5

Remaining 5 marks are awarded for co-curricular activities such as Assignment/Seminar / Technical Quiz/ Paper Presentation in the subject area. 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.

11.2 ASSESSMENT FOR LABORATORY COURSES

Every laboratory exercise / experiment shall be evaluated based on the student performance during the laboratory classes and the student's records maintained. There shall be at least one assessment test. The criteria for arriving at the continuous assessment marks of 55 shall be decided at the respective class committee meeting. 5 marks are awarded for attendance; the internal marks for the attendance are calculated using the same procedure followed in clause 11.1.

The maximum marks for Internal Assessment shall be 60 in case of integrated courses (Practical integrated with theory).

Each integrated course shall be evaluated for a maximum of 100 marks as shown below.

Category of Course	Assessment for Theory Part (T)	Assessment for Laboratory Part (L)	End semester Examination
Practical integrated with theory	One assessment 20 marks	Two assessment 40 marks	40 marks

11.3 ASSESSMENT FOR PROJECT WORK

Project work may be assigned to a single student or to a group of students not exceeding 4 per group. The Head of the Department shall constitute a project work 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 and there shall be three assessments during the semester by the review committee. The student shall make presentation on the progress made before the 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, guide of the project group and the internal examiner.

The continuous assessment and end semester examination marks for Project Work will be distributed as indicated below.

Continuous Assessment 60 Marks						End Semester Examination (40 Marks)			
Review I (20 Marks)		Review II (20 Marks)		Review III (20 Marks)		Report Evaluation (20 Marks)	Viva – Voce (20 Marks)		
Review Committee	Guide	Review Committee	Guide	Review Committee	Guide	External Examiner	Guide	External Examiner	Internal Examiner
15	5	15	5	15	5	20	5	7.5	7.5

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/are deemed to have failed in the Project Work. The failed student(s) shall register for the examination in the subsequent semester.

11.4 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%).

11.5 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.

11.6 ASSESSMENT FOR VALUE ADDED COURSE

The course shall carry 100 marks and shall be evaluated through continuous assessments only. Two assessments carrying 100 marks shall be conducted

during the semester by the Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. The Head of the Department may identify a faculty member as coordinator for the course. A committee consisting of the Head of the Department, staff handling the course (if available), coordinator and a senior Faculty member nominated by the Head of the Department shall monitor the evaluation process. The grades shall be assigned to the students by the above committee based on their relative performance.

11.7 ASSESSMENT FOR ONLINE COURSE

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. 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.

In case of credits earned through online mode, the credits may be transferred and grades shall be assigned by a committee constituted by the Principal. The committee consists of Head of the Department, online course coordinator and senior faculty members.

12 PASSING REQUIREMENTS

- 12.1** A candidate who secures not less than 50% of total marks prescribed for the course with a minimum of 50% 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.
- 12.2** If a student fails to secure a pass in a theory or laboratory course, the student shall register and appear 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.
- 12.3** 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.

- 12.4** If a candidate fails in the seventh semester examination of Project Work Phase -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 End semester examination of the final Project Work Phase - II, he/she shall resubmit the Project Report within 60 days from the date of declaration of the results. The resubmission of the Project Report and the subsequent Viva- Voce examination will be considered as reappearance with payment of prescribed exam fee. In case a student fails in the resubmission of a Project Report and subsequent Viva-Voce examination, the awarded marks in the Continuous Assessment Examination will not be carried over for the subsequent semesters.
- 12.5** The passing requirement for the courses which are assessed only through continuous assessment (EEC courses except project work), shall be fixed as minimum 50%.
- 12.6** For the co-curricular activities such as NCC / 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.
- 12.7** A student can apply for Revaluation of the student's end semester examination answer script 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.

12.8 Candidate not satisfied with Revaluation can apply for Review Revaluation of his/ her examination answer script in a theory course, on payment of a prescribed fee along with prescribed application to the Controller of Examinations recommended by the Principal. Candidates applying for Photocopy-cum-Revaluation only are eligible to apply for Review Revaluation.

12.9 Supplementary Examinations

If a student fails to secure a pass in theory course(s) of VIII semester examinations, he/she is eligible to appear for a one time Supplementary Examinations which shall be conducted at the end of VIII semester, for the courses of VIII semester alone within 30 days from the date of declaration of results.

13 AWARD OF LETTER GRADES

All assessments of a course will be done on absolute 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 course.

A student is deemed to have passed and acquired the corresponding grade in a particular course if he/she obtains any one of the following grades:

“O”, “A+”, “A”, “B +” and “B”.

Letter Grade	Grade Points	Range of Marks
O (Outstanding)	10	91-100
A + (Excellent)	9	81-90
A (Very Good)	8	71-80
B + (Good)	7	61-70
B (Above average)	6	50-60
RA (Reappearance)	0	<50
SA (Shortage of	0	-
W (Withdrawal)	0	-

- (i) ‘RA’ denotes Reappearance is required for that particular course
- (ii) ‘SA’ denotes Shortage of Attendance (as per Clause 7) and hence prevented from writing end semester examinations
- (iii) ‘W’ indicates withdrawal from the course

14 GPA AND CGPA CALCULATION

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:

- List of courses registered during the semester and the grades scored.
- Grade Point Average (GPA) for the semester and
- 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

- (i) C_i - Credits assigned to the course
- (ii) GP_i - Grade Point corresponding to the letter grade obtained for each course
- (iii) n - 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”, “SA” and “W” grades will be excluded for calculating GPA and CGPA.

15 ELIGIBILITY FOR AWARD OF DEGREE

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

- 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 courses prescribed in all the eight 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 Departmental Consultative Committee whenever readmitted/transferred from other colleges.(vide clause 17.3)
- iv. Successfully completed the NCC / NSS / NSO / YRC requirements.
- v. No disciplinary action pending against the student.

15.2 CLASSIFICATION OF THE DEGREE AWARDED

15.2.1 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 16) 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 semesters.

15.2.2 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 **7.00**

15.2.3 **SECOND CLASS**

All other students (not covered in clauses 15.2.1 and 15.2.2) who qualify for the award of the degree (vide Clause 15.1) shall be declared to have passed the examination in **Second Class**.

- 15.2.4. 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 16) for the purpose of degree classification.

16 **PROVISION FOR WITHDRAWAL FROM EXAMINATIONS**

- 16.1 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 for approval through HOD with required documents.
- 16.2 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 the withdrawal application shall be recommended by the Head of the Department and approved by Principal.
- 16.3 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.
- 16.4 If a student withdraws a course or courses from writing end semester examinations, he/she shall register the same in the subsequent semester and write the end semester examination(s).

- 16.5** Withdrawal shall not be considered as an appearance for deciding the eligibility of a student for First Class with Distinction.
- 16.6** 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 15.2.1.

17 PROVISION FOR AUTHORIZED BREAK OF STUDY

- 17.1** A student is permitted to go on break of study for a fixed period of one year as a single break in the entire course of study.
- 17.2** When a 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.
- 17.3** The total period for completion of the programme reckoned from, the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study in order that the student may be eligible for the award of the degree (vide clause 15).
- 17.4** 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.
- 17.5** 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.
- 17.6** A student who is permitted to transfer to this College from other Colleges / 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 transferring/ rejoining. A student who is transferring / rejoining in new Regulations shall apply to the Principal in the prescribed format through Head of the Department at the beginning of the transferred/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.

Department Consultative Committee is constituted in which Head of the Institution shall be chairman of the committee; HoD of the Department concerned and senior faculty members of the Department concerned and allied Departments are the members of the committee for analyzing and finalizing the addition / deletion of the courses needed to the transferred/readmitted students.

18 DISCIPLINE

- 18.1** 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 Department 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.
- 18.2** 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 a final decision.
- 18.3** If a student indulges in malpractice in any of the examinations, the student shall be liable for punitive action as prescribed by the College from time to time.

19 REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

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

20 LEGAL JURISDICTION

Any legal issues arise due to above Regulations 2019, are having the jurisdiction of Namakkal District Court and High Court, Chennai only.
