

K P R Institute of Engineering and Technology
(Autonomous Institution)

Regulations 2019

(Choice Based Credit System)

M.E. / M. Tech. Programmes



K P R Institute of Engineering and Technology
(Autonomous Institution)

Affiliated to Anna University, Chennai | Approved by AICTE, New Delhi Accredited
by NBA (CIVIL, CSE, ECE, EEE & MECH) and NAAC with 'A' Grade)
An ISO 9001:2015 and ISO 14001:2015 Certified Institution DSIR Certified Scientific and Industrial
Research Organization

Avinashi Road, Arasur, Coimbatore - 641 407 | +91 422 2635600 | www.kpriet.ac.in



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REGULATIONS 2019

(Choice Based Credit System)

(Common to all M.E. / M. Tech. Degree Programmes)

Regulations 2019 have been prepared in accordance with the guidelines given by the University Grants Commission, All India Council for Technical Education and affiliating Anna University incorporating the features of the Choice Based Credit System (CBCS). The Regulation 2019 is applicable to the students admitted to the first year Master of Engineering (M.E.) / Master of Technology (M. Tech.) Degree Programmes of the Institution from the academic year 2019-2020 onwards.

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 these regulations, unless the context otherwise requires:

- i) “Academic Autonomy” means autonomy granted by the University Grants Commission (UGC) and Anna University, Chennai to KPR Institute of Engineering and Technology, Coimbatore in all aspects of conducting its academic programmes for promoting excellence;
- ii) “Autonomous College” means a College notified as an autonomous college by the University, as per the Anna University Autonomous College Statute;
- iii) “Commission” means University Grants Commission;
- iv) “Council” means All India Council for Technical Education;

- v) “Statute” means Anna University Autonomous College Statute;
- vi) “University” means Anna University, Chennai;
- vii) “College” means KPR Institute of Engineering and Technology, Coimbatore
- viii) “Programme” means a M.E. programme like ‘M.E. Programme’ in VLSI.
- ix) “Discipline” means specialization in a programme like M.E. Degree Programme in Structural Engineering.
- x) “Course” means a subject either theory or practical identified by its course title and code, and which is normally studied in a semester, for example, Research Methodology.
- xi) “Head of the Institution” means the Principal of the College.
- xii) “Head of the Department” means head of the department concerned.
- xiii) “Controller of Examinations” means the authority of the college who is responsible for all activities of the Examinations concerned.

2 PROGRAMMES OFFERED AND ADMISSION REQUIREMENTS

2.1 M. E. Programmes

- i) Computer Science and Engineering
- ii) VLSI design
- iii) Structural Engineering
- iv) CAD/CAM

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

2.2 Admission

Full-Time: (2 years – 4 semesters)

Students admitted under ‘Full-Time’ should be available in the College / Institution during the entire duration of working hours (From Morning to Evening on Full-Time basis) for the curricular, co-curricular and extra-curricular activities assigned to them.

Part Time-Day Time Mode: (3 years – 6 semesters)

In this mode of study, the students are required to attend classes conducted in the day time and complete the course in three years (6 semesters).

Conversion from one mode of study to the other is not permitted.

2.3 Admission requirements

- 2.3.1** Students for admission to the first semester of the Post-Graduate Degree Programme shall be required to have passed an appropriate Under-Graduate Degree Examination of Anna

University or equivalent as specified under qualification for admission as per the Tamil Nadu Common Admission (TANCA) criteria.

Note: TANCA releases the updated criteria during the admissions every academic year.

Admission shall be offered only to the students who possess the qualification prescribed against each programme.

Any other relevant qualification which is not prescribed against each programme shall be considered for equivalence by the committee constituted for the purpose. Admission to such degrees shall be offered only after obtaining equivalence to such degrees.

2.3.2 Notwithstanding the qualifying examination the student might have passed, he/she shall have a minimum level of proficiency in the appropriate programme / courses as prescribed by the University from time to time.

2.3.3 Eligibility conditions for admission such as the class obtained the number of attempts in qualifying examination and physical fitness will be as prescribed by the University from time to time.

2.3.4 All Part Time-Day Time students should satisfy other conditions regarding Experience, Sponsorship etc. that may be prescribed by the University from time to time.

3 STRUCTURE OF THE PROGRAMMES

3.1 Categorization of Courses

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

- i. **Foundation Courses (FC)** may include Mathematics or other basic courses.
- ii. **Professional Core (PC)** courses include the core courses relevant to the chosen specialization/discipline.
- iii. **Professional Elective (PE)** courses include the elective courses relevant to the chosen specialization/discipline.
- iv. **Employability Enhancement Courses (EEC)** include Project Work and/or Internship, Technical Seminar, Industry oriented courses, Online courses, Professional Practices, Mini Project, Case Study and Industrial Training/Internship.

Instead of two electives in the curriculum, the student may be permitted to choose a maximum of 2 courses from other PG programmes with the approval of the Head of the Department offering such courses.

3.2 Courses per Semester

Curriculum of a semester shall normally have a blend of lecture courses and practical courses including Employability Enhancement Courses. Each course may have credits assigned as per clause 3.3.

3.3 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 / Technical Seminar / Project Work etc.)	1

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

3.4 Project Work

3.4.1 The project work for M.E. / M.Tech. Programmes consist of Phase-I and Phase-II. The Phase-I is to be undertaken during III semester and Phase-II, which is a continuation of Phase-I is to be undertaken during IV semester.

3.4.2 In case of students of M.E. / M.Tech. Programmes not completing Phase-I of project work successfully, the students can undertake Phase-I again in the subsequent semester. In such cases the students can enroll for Phase-II, only after successful completion of Phase-I.

3.4.3 Project work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing (i) PG degree with a minimum of 2 years’ experience in teaching or (ii) Ph.D. degree.

3.4.4 A student may, however, in certain cases, be permitted to work on projects in an Industrial/Research Organization, on the recommendations of the Head of the Department Concerned. In such cases, the Project work shall be jointly supervised by a supervisor of the department and an expert, as a joint supervisor from the organization and the student shall be instructed to meet the supervisor periodically and to attend the review committee meetings for evaluating the progress.

3.4.5 The Project work (Phase-II in the case of M.E/M.Tech.) shall be pursued for a minimum of 16 weeks during the final semester.

3.5 The deadline for submission of final Project Report is 60 calendar days from the last working day of the semester in which project / thesis / dissertation is done. However, the Phase-I of the Project work in the case M.E. / M.Tech. Programmes shall be submitted within a maximum period of 30 calendar days from the last working day of the semester as per the academic calendar published by the College.

3.6 Industrial Training / Internship

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 Research organization / University (after due approval from the Department Consultative Committee(DCC)) for the period prescribed in the curriculum during summer / winter vacation, in lieu of Industrial training. Students can earn a maximum of one credit by attending internship/industrial training for two weeks.

3.7 Industry Oriented Courses

The students may optionally undergo Industry Oriented Courses and the credits earned through these courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. One credit industry oriented courses shall be offered by a Department with the prior approval from the Head of the Institution. The details of the syllabus, and other details recommended by the DCC may be sent to the Controller of Examinations after approval from the Head of the Institution at least two weeks before the course is offered. Students can take a maximum of three credits during the entire duration of the Programme. A student shall be permitted to drop one elective in lieu of the three credits earned as per clause 5.2.

3.8 Online Courses

3.8.1 Students may be permitted to earn one online course with proctored examination (NPTEL, SWAYAM, etc.) subject to a maximum of three credits with the approval of Head of the Institution recommended through the Head of the Department.

3.8.2 The approved list of online courses will be provided by the Board of Studies from time to time. The details regarding online courses taken up by students should be sent by the Head of

the department concerned to the Controller of Examinations one month before the commencement of end Semester Examination

3.9 Value Added Courses

A student can opt for value added courses offered by any department. On completion of the course, the details shall be sent by the Head of the department to the Controller of Examinations, who will issue a separate certificate.

4 DURATION AND STRUCTURE OF THE PROGRAMMES

4.1 The duration of the programme is two years (four semesters) for Full Time programme and three years (six semesters) for Part Time programme.

Programme	Minimum number of semesters	Maximum number of semesters
M.E. / M.Tech.	4	8
M.E. / M.Tech.	6	12

4.2 The Curriculum and Syllabi of all the P.G. Programmes shall be approved by the Academic Council of KPR Institute of Engineering and Technology, Coimbatore. The number of credits to be earned for the successful completion of the programme shall be as specified in the Curriculum of the respective specialization of the P.G. Programme.

4.3 Each semester shall normally consist of 75 working days or 540 periods of each 50 minutes duration, for Full-time mode of study or 250 periods for Part time-Day time mode of study. For the purpose of calculation of attendance requirement for writing the end semester examinations (as per clause 9) by students, following method shall be used.

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

End Semester Examinations conducted by the college will be scheduled after the last working day of the semester.

- 4.4 The minimum prescribed credits required for the award of the degree shall be within the limits specified below:

Programme	Prescribed Credit Range
M.E. / M. Tech.	68 to 73

5 COURSE REGISTRATION

- 5.1 Each student has to register for all courses to be undergone in the curriculum of a particular semester (with the facility to drop courses to a maximum of 6 credits (vide clause 5.2). However, the student has the option to take up some other professional elective or open elective that he/she has failed to pass. The registration details of the students shall be approved by the Head of the Institution and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations. No Elective course shall be offered by any department unless a minimum 5 students register for the course. However, if the students admitted in the associated Discipline and Semester is less than 5, this minimum will not be applicable.

The courses that a student registers in a particular semester may include

- i. Courses of the current semester.
- ii. Different elective courses instead of the electives in which the student failed.

5.2 Flexibility to Drop courses

- 5.2.1 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.
- 5.2.2 From the Semester II to IV semester, the student has the option of dropping existing courses in a semester during registration. Total number of credits of such courses cannot exceed 6 for PG (Full Time) programmes and cannot exceed 3 for PG (Part Time –Day Time) programmes for the entire duration of study.

6 EVALUATION OF PROJECT WORK

The evaluation of Project Work for Phase-I & Phase-II of M.E. / M.Tech. shall be done independently in the respective semesters and marks shall be allotted as per the weightings given in Clause 6.1.

- 6.1 There shall be three 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 Institution shall constitute the review committee for each discipline of study. The total marks obtained in the three assessments shall be reduced to 20 marks and rounded to the nearest integer (as per the Table given below). There will be a vice-voce Examination during End Semester Examinations conducted by a Committee consisting of the supervisor, one internal examiner and one external examiner. The names of internal examiner and the external examiner shall be selected from the panel proposed by the BOS and appointed by the Controller of Examination. The distribution of marks for the internal assessment and End semester examination is given below:

Internal Assessment (20 Marks)			End Semester Examination (80 Marks)			
Review I	Review II	Review III	Thesis Submission (30 Marks)	Viva – Voce (Rounded to 50 Marks)		
			External Examiner	Internal Examiner	External Examiner	Supervisor Examiner
5	7.5	7.5	30	15	20	15

6.2 The Project Report prepared according to approved guidelines as given by the Head of the Institution and duly signed by the supervisor(s) and the Head of the Department concerned shall be submitted to the Head of the Institution.

6.3 If the student fails to obtain 50% of the internal assessment marks in the Phase–I and Phase–II / final project, he/she will not be permitted to submit the report for that particular semester and has to re-enroll for the same in the subsequent semester.

If a student fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-enroll for the same in a subsequent semester. This applies to both Phase–I and Phase–II.

If a student fails in the end semester examinations of 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 Phase–II of Project work of M.E. / M. Tech, he/she shall resubmit the Project Report within 60 days from the date of declaration of the results. The resubmission of a project report and subsequent viva-voce examination will be considered as reappearance with payment of exam fee. For this purpose the same Internal and External examiners (as far as possible) shall evaluate the resubmitted report.

6.3.1 A copy of the approved Project Report after the successful completion of viva-voce examinations shall be kept in the library of the college.

6.3.2 Industrial Training / Internship if specified in the Curriculum shall not exceed the maximum duration of 4 weeks and should be organized by the Head of the Department for every student.

6.3.3 At the end of Industrial Training / Internship the student shall submit a certificate from the organization where he/she has undergone training and also a brief report. The evaluation for 100 marks will be carried out internally based on this report and a Viva- Voce Examination will be conducted by a DCC constituted by the Head of the Department to the Head of the Institution and shall be forwarded to the Controller of Examinations.

7 MENTOR

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

- i. To act as the channel of communication between the HoD and the students of the respective class.
- ii. To collect and maintain various statistical details of students.
- iii. To help the chairperson of the class committee in planning and conduct of the class committee meetings.
- iv. To monitor the academic performance of the students including attendance and to inform the class committee.
- v. To attend to the students' welfare activities like awards, medals, scholarships and industrial visits.
- vi. To authorize the registration of courses for the students of the class concerned.

8 CLASS COMMITTEE

8.1 A Class Committee consists of teachers of the concerned class, student representatives 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:

- i. Solving problems experienced by students in the class room and in the laboratories.
- ii. Clarifying the regulations of the programme and the details of rules there in.

- iii. Informing the student representatives, the “academic schedule” including the dates of assessments and the syllabus coverage for each assessment period.
- iv. Informing the student representatives, the details of regulations regarding the weightage used for each assessment. In the case of practical courses (laboratory / project work / technical 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.
- v. Analyzing the performance of the students of the class after each test and finding the ways and means of improving the Students Performance
- vi. Identifying the weak students, if any, in any specific subject and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students as frequently as possible.

8.2 The class committee for a class under a particular programme is normally constituted by the Head of the Department. However, if the students of different programmes are mixed in a class, the class committee is to be constituted by the Head of the Institution.

8.3 The class committee shall be constituted on the first working day of any semester or earlier.

8.4 At least 2 student representatives (usually 1 boy and 1 girl) shall be included in the class committee.

8.5 The chairperson of the class committee shall invite the mentor(s) and the Head of the Department to the meeting of the class committee.

8.5.1 The Head of the Institution may participate in any class committee of the institution.

8.6 The Chairperson of the Class Committee is required to prepare the minutes of every meeting, submit the same to the Head of the Institution within two days of the meeting and arrange to circulate among the concerned students and teachers. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the management by the Head of the Institution.

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

9 COURSE COMMITTEE FOR COMMON COURSES

Each common course offered to more than one group of students shall have a “Course Committee” comprising all the teachers teaching the common course with one of them nominated as Course Coordinator. The nomination of the course Coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The ‘Course committee’ shall meet as often as possible and ensure uniform evaluation of the tests and arrive at a common scheme of evaluation for the tests. Wherever it is feasible, the course committee may also prepare a common question paper for the Assessment Test(s).

10 ATTENDANCE REQUIREMENTS FOR COMPLETION OF ASEMESTER

10.1 A student who has fulfilled the following conditions shall be deemed to have satisfied the attendance requirements for completion of a semester.

Every student is expected to attend all classes and earn 100% attendance. However in order to allow provision for certain unavoidable reasons such as prolonged hospitalization / accident / specific illness the student is expected to earn a minimum of 75% attendance to become eligible to write the End-Semester Examinations.

Therefore, every student shall secure not less than 75% of overall attendance in that semester as per clause 4.3.

10.2 However, a student who secures overall attendance between 65% and 74% in that current semester due to medical 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 student shall submit the medical certificate / sports participation certificate to the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.

10.3 Students who could secure less than 65% overall attendance and Students who do not satisfy the clauses 10.1 & 10.2 will not be permitted to write the end-semester examination of that current semester and are not permitted to go to next semester. They are required to repeat the incomplete semester in the next academic year.

11 PROCEDURES FOR AWARDING MARKS FOR INTERNAL ASSESSMENT (IA)

The maximum marks assigned to different courses shall be as given below:

i.	THEORY COURSES	Marks
	Internal Assessment Distribution of marks for Internal Assessment: <i>CIAT I (Unit I & II – Conducted for 50 Marks)</i> <i>CIAT II (Unit III & IV – Conducted for 50 Marks)</i> <i>CIAT III (Unit V & Any Two Units – Conducted for 100 Marks)</i>	20
	End Semester Examination	80
	Total Marks	100

ii.	LABORATORY COURSES	Marks
	Internal Assessment Distribution of marks for Internal Assessment: <i>Assessment of Experiment: (50)</i> <ul style="list-style-type: none"> • <i>Preparation</i> • <i>Experiment and Results</i> • <i>Record Note</i> • <i>Quiz / Viva Voce</i> <i>Mid Semester Lab Examination (50)</i>	20
	End Semester Examination	80
	Total Marks	100

iii.	THEORY COURSES WITH LAB COMPONENT	Marks
	Internal Assessment Distribution of marks for Internal Assessment: <i>CAIT I (Unit I & II – Conducted for 50 Marks)</i> <i>CAIT II (Unit III & IV – Conducted for 50 Marks)</i> <i>CAIT III (Unit V & Any Two Units – Conducted for 100 Marks)</i>	20
	<i>Assessment of Experiment: (20 Marks)</i> <ul style="list-style-type: none"> • <i>Preparation</i> • <i>Experiment and Results</i> • <i>Record Note</i> • <i>Quiz / Viva Voce</i> <i>Final Practical Examination (80 Marks)</i>	20
	End Semester Theory Examination	60
	Total	100

Optional Test: A student becomes eligible to appear for the optional tests conducted after the Continuous Internal Assessment Tests (CIAT) , only under the following circumstances: (i) absent for CIAT I , CIAT II or CIAT III or all on account of medical reasons (hospitalization / accident / specific illness), or (ii) participation in the College / University / State / National / International level Sports events with prior permission from the Head of the Department and (iii) on satisfying the conditions (i) or (ii), the student should have registered for the Optional Test, through the concerned member of faculty who handles the course or through the respective Head of the Department, submitted to the Controller of Examinations. Such Optional Tests will be conducted only for ‘Theory’ and ‘Theory with Lab component’ courses.

iv. Evaluation of Project work

The evaluation of the project work Phase I and Phase II will be done as per clause 6.

v. Other Employability Enhancement Courses

- a. The Technical Seminar / Case study is to be considered as purely INTERNAL (with 100% internal marks 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 Institution 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 (40%), presentation (40%) and response to the questions asked during presentation (20%).

TECHNICAL SEMINAR (CONTINUOUS ASSESSMENT ONLY)	Marks
Distribution of marks	
Evaluation I	50
Evaluation II	50
Total	100

- b. The **Industrial Training / Internship** shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial training / internship, the student shall submit a certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three member panel

constituted by the Head of the Institution.

INDUSTRIAL TRAINING / INTERNSHIP (CONTINUOUS ASSESSMENT ONLY)	Marks
Distribution of marks	
<i>Review I</i>	30
<i>Review II</i>	30
<i>Viva-Voce</i>	40
Total Marks	100

- c. Industry Oriented Courses shall carry 100 marks and shall be evaluated through continuous assessments only.

INDUSTRIAL ORIENTED COURSE (CONTINUOUS ASSESSMENT ONLY)	Marks
Distribution of marks	
<i>Test I</i>	50
<i>Test II</i>	50
Total Marks	100

- d. Value Added Courses shall carry 100 marks and shall be evaluated through continuous assessment only.

VALUE ADDED COURSES (CONTINUOUS ASSESSMENT ONLY)	Marks
Distribution of marks	
<i>Test I</i>	25
<i>Test II</i>	25
<i>Final Valuation / Test</i>	50
Total Marks	100
<i>Grades (Excellent / Good / Satisfactory) (Certificates only)</i>	

12. REQUIREMENTS FOR APPEARING FOR END SEMESTER EXAMINATION

- 12.1** A student shall normally be permitted to appear for the End Semester Examinations of the current semester if he/she has satisfied the semester completion requirements as per clause 10.1 & 10.2 and has registered for examination in all courses of the current semester.
- 12.2** A student who has already appeared for end semester examination and failed in the examination is permitted to write the End Semester Examinations for the arrear(s) in the subsequent semesters.

12.3 A student who has passed all the courses prescribed in the curriculum for the award of the degree shall not be permitted to re-enroll to improve his/her marks in a course or the aggregate marks / CGPA.

13. END SEMESTER EXAMINATIONS

There shall be an End- Semester Examination of 3 hours duration in each lecture based course. For the practical examinations (including project work), both internal and external examiners shall be appointed by the Controller of Examinations.

14. PASSING REQUIREMENTS

14.1 A student who secures not less than 50% of total marks prescribed for the course with a minimum of 50% of the marks prescribed for each of the course of the End-Semester Examination in both theory and practical courses shall be declared to have passed in the course and acquired the relevant number of credits.

14.2 If a student fails in an elective, he/she may reappear for the End Semester Examination of the same course(s) in the subsequent semester(s). Instead, if the student wishes to register for different elective course(s) in the subsequent semester(s), the student should attend the classes, earn continuous assessment marks and appear for End Semester Examination and fulfill the attendance requirements as per Clause 10. However, such change of elective courses is permitted only once during the entire duration of study.

14.3 If a student fails in a particular course, he/she shall reappear for the examination of that course in subsequent semesters whenever the examinations are conducted for that course till he /she secures a 'Pass'. If the course is a 'Theory with Laboratory Component', he/she shall reappear and write the examination for the Theory component only.

14.4 If a student fails to secure a pass in project work even after availing clause (6.3), the student shall register for the course again, when offered next.

14.5 The passing requirement for the courses which are assessed only through purely internal assessment (EEC courses except project work), is 50% of the internal assessment marks only.

14.6 A student can apply for revaluation (vide clause 17.5) of the student's 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 Examination through the Head of the Department.

15. AWARD OF LETTER GRADES

15.1 All assessments of a course will be evaluated on absolute marks basis. However, for the purpose of reporting the performance of a student, letter grades, each carrying certain number

of points, will be awarded as per the range of total marks (out of 100) obtained by the student in each subject as detailed below:

Letter Grade	Grade Points	Marks Range
O (Outstanding)	10	90 - 100
A +(Excellent)	9	80 - 89
A(VeryGood)	8	70 – 79
B +(Good)	7	60 – 69
B(Average)	6	50 - 59
RA	0	<50
SA (Shortage of Attendance)	0	
W	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”.

‘SA’ denotes shortage of attendance (as per clause 10.3) and hence prevention from writing the end semester examinations. ‘SA’ will appear only in the result sheet.

“RA” denotes that the student has failed to pass in that course. “W” denotes **withdrawal** from the exam for the particular course. The grades RA and W will figure both in Marks Sheet as well as in Result Sheet).

If the grade W or RA is given to course, the attendance requirement need not be satisfied.

- 15.2** The grades O, A+, A, B+ and B or the grades in all special courses including Industry Oriented Courses, additional Internship and Online courses shall figure in the Mark sheets. The courses for which the grades are RA and SA will not figure in the mark sheet.

15.3 Grade Sheet

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

- i. The college in which the student has studied.
- ii. The list of courses enrolled during the semester and the grades scored.
- iii. The Grade Point Average (GPA) for the semester and
- iv. The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

GPA for a semester is the ratio of the sum of the products of the number of credits for courses acquired and the corresponding points to the sum of the number of credits for the

courses acquired in the semester. CGPA will be calculated in a similar manner, considering all the courses registered from first semester. RA grades will be excluded for calculating GPA and CGPA.

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

where

C_i is the number of credits assigned to the course

GP_i is the Grade point corresponding to the 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**.

16. ELIGIBILITY FOR THE AWARD OF THE DEGREE

16.1 A student shall be declared to be eligible for the award of the PG Degree (M.E. / M. Tech.,) 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. **a. M.E. / M.Tech. (Full Time)**

Successfully completed the course requirements, appeared for the End-Semester examinations and passed all the subjects prescribed in all the 4 semesters within a maximum period of 4 years reckoned from the commencement of the first semester to which the student was admitted.

b. M.E./M.Tech. (Part Time-Day Time)

Successfully completed the course requirements, appeared for the End-Semester examinations and passed all the subjects prescribed in all the 6 semesters within a maximum period of 6 years reckoned from the commencement of the first semester to which the student was admitted.

- iii. Successfully passed any additional courses prescribed by the Board of studies / Academic council whenever readmitted under regulations other than R-2019 (vide clause 19.3).
- iv. No disciplinary action pending against the student.
- v. The award of degree must have been approved by the Syndicate of the University.

17. CLASSIFICATION OF THE DEGREE AWARDED

17.1 FIRST CLASS WITH DISTINCTION

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

M.E. / M. Tech. (Full Time)

- i. Should have passed the examination in all the courses of all the four semesters in the student's First Appearance within **three** years, which includes authorized break of study of one year (if availed). Withdrawal from examination (vide Clause 18) will not be considered as an appearance.
- ii. Should have secured a CGPA of not less than **8.50**.
- iii. Should NOT have been prevented from writing end Semester examination due to lack of attendance in any of the courses.

M.E. / M.Tech. (Part Time-Day Time)

- i. Should have passed the examination in all the courses of all the six semesters in the student's First Appearance within **four** years, which includes authorized break of study of one year (if availed). Withdrawal from examination (vide Clause 18) will not be considered as an appearance.
- ii. Should have secured a CGPA of not less than **8.50**.
- iii. Should NOT have been prevented from writing end Semester examination due to lack of attendance in any of the courses.

17.2 FIRST CLASS

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

M.E. / M.Tech. (Full Time)

- i. Should have passed the examination in all the courses of all four semesters **within three years** , which includes one year of authorized break of study (if availed) or prevention from writing the End Semester Examination due to lack of attendance (if applicable).
- ii. Should have secured a CGPA of not less than **7.00**

M.E. / M.Tech. (Part Time-Day Time)

- i. Should have passed the examination in all the courses of all six semesters **within four years**, which includes one year of authorized break of study (if availed) or prevention from writing the End Semester Examination due to lack of attendance (if applicable).
- ii. Should have secured a CGPA of not less than **7.00**

17.3 SECOND CLASS:

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

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

- 17.5 Examination Wrapper and Revaluation:** For a theory course, one week after the publication of results, there shall be an examination wrapper day. On this day, the students can go through their end semester answer papers in the presence of the course instructors and Head of the department and get clarifications. In cases of dispute, when the student is not satisfied with the clarifications/corrections, the student can apply for revaluation. A student, who seeks revaluation of the answer script, shall be directed to apply for the photocopy of his/her semester examination answer paper(s) in the theory course(s) in the prescribed format to the Controller of Examinations through the Head of the Department. The Controller of Examinations shall arrange for revaluation jointly by two examiners, one examiner preferably an external member and declare the results. There will not be any further reviews. Revaluation is not permitted to the courses other than theory courses. In the case of theory courses with laboratory component, a student can seek revaluation for the theory component only. A student can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

18. PROVISION FOR WITHDRAWAL FROM EXAMINATION:

- 18.1** A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Chairman, sports board and HOD) be granted permission to withdraw from appearing for the end semester examination in any course or courses in **ANYONE** of the semester examinations during the entire duration of the degree programme. The application

shall be sent to Head of the Institution through the Head of the Departments with required documents.

18.2 Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 10) and if it is made within TEN days prior to the commencement of the examination in that course or courses and recommended by the Head of the Department and approved by the and Controller of Examinations.

18.2.1 Notwithstanding the requirement of mandatory 10 days' notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.

18.3 In case of withdrawal from a course / courses (Clause 12) the course will figure both in Marks Sheet as well as in Result Sheet. However, withdrawal shall not be construed as an appearance for the eligibility of a student for First Class with Distinction.

18.4 Withdrawal is permitted for the end semester examinations in the final semester only if the period of study the student concerned does not exceed 3 years as per clause 17.1.

19. AUTHORIZED BREAK OF STUDY FROM A PROGRAMME

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

19.2 Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the student may apply for additional break of study not exceeding another one year by paying prescribed fee for break of study. If a student intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Head of the Institution in advance, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Department stating the reasons therefore and the probable date of rejoining the programme.

19.3 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 Head of the Institution in the prescribed format through Head of the Department at the beginning of the readmitted

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

19.4 The authorized break of study would not be counted towards the duration specified for passing all the courses for the purpose of classification (vide Clause17.1).

19.5 The total period for completion of the Programme reckoned from, the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 4.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.

19.6 If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause19.1)

20. DISCIPLINE

A student is expected to follow the rules and regulations laid down by the Institute and the affiliating University, as published from time to time. Any violations, if any, shall be treated as per the procedures stated thereof.

If a student indulges in malpractice in any of the End Semester / Continuous Assessments, he / she shall be liable for punitive action as prescribed by the Institution / University from time to time.

21 REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The Institution reserves the right to revise/amend/change the Regulations, Curriculum, Syllabi, Scheme of Examinations and date of implementation through the Academic Council, and to introduce additional Electives, Open Electives, and One / Two Credit Courses through the respective Boards of Studies.