

UG REGULATIONS 2019

FLEXIBLE CHOICE BASED CREDIT SYSTEM

Common to all B.E./B.Tech. Full-Time Programme

(For the learners admitted to B.E. / B.Tech. Programme in Saveetha Engineering College)

REGULATIONS 2019

FLEXIBLE CHOICE BASED CREDIT SYSTEM

Common to all B.E./B.Tech. Full-Time Programme

(For learners admitted to B.E. / B.Tech. Programme in Saveetha Engineering College)

DEGREE OF BACHELOR OF ENGINEERING/BACHELOR OF TECHNOLOGY

This Regulation is applicable to the learners admitted to B.E/B.Tech. Programme in Saveetha Engineering College, an autonomous Institution from the academic year 2019-2020 onwards.

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

- a. **“Programme”** means Degree Programme that is B.E./B.Tech. Degree Programme.
- b. **“Discipline”** means specialization or branch of B.E./B.Tech. Degree Programme, like Agriculture Engineering, Information Technology, etc.
- c. **“Course”** means a theory and / or practical subjects that are normally studied in a semester, like Mathematics, Physics, etc.
- d. **“College”** means Saveetha Engineering College, Chennai.
- e. **“Head of the Department”** means concerned Department Head.
- f. **“Dean, Centre for Academics”** means the authority of the College who is responsible for all Academic activities of the Academic Programme, for implementation of relevant rules of these regulations pertaining to the Academic Programme.
- g. **“Controller of Examinations”** means the authority of the Saveetha Engineering College who is responsible for all activities of the Internal and End Semester Examinations.
- h. **“Head of the Institution”** means the Principal of the College.
- i. **“University”** means the Anna University, Chennai.

2. ADMISSION

2.1. Regular

Candidates seeking admission to the first semester of the eight semesters B.E. / B.Tech Degree Programme,

- Should have passed the Higher Secondary Examination (10+2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent thereto.

(OR)

- Should have passed the Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

2.2 Lateral Entry

- The candidates who possess a Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamil Nadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. in the branch corresponding to the branch of study.

(OR)

- The candidates who possess the Degree in Science (B.Sc.) (10+2+3 stream) with Mathematics as a subject at the B.Sc. level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech.
- The candidates admitted under lateral entry category, will abide by the regulations of the respective batch he/she belongs.

2.3 Transferred

Learners, who are transferred from other institutions, affiliated to Anna University, are eligible to be admitted, either in III semester or V semester or VII semester, as per the eligibility norms. However, the learner may have to undergo additional courses, if specified by the Centre for Academics.

3. PROGRAMMES OFFERED

Four year B.E. / B.Tech. Programme offered, are listed in **ANNEXURE-I**.

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/or practical courses that shall be categorized as follows:

S. No.	Category	Credits Range	
		Regular	Lateral Entry
1	Humanities and Social Sciences (HS) courses include Technical English and Communication skills, and Management Studies	8 - 16	4 (Communicative English)
2	Basic Sciences (BS) courses include Mathematics and Physical Sciences	25 – 33	4 – 8 (Mathematics)
3	Engineering Sciences (ES) courses include Engineering Graphics, Basics of Engineering practices (Electrical / Electronics / Mechanical / Instrumentation), and Programming.	25 – 33	10 (Relevant and Required Basic Core course)
4	Professional Core (PC) courses includes the core courses relevant to the chosen specialization/branch.	50 – 66	50 – 66
5	Professional Elective (PE) courses include the elective courses relevant to the chosen specialization / branch.	17 – 25	17 – 25
6	Open Elective (OE) courses includes the courses from other branches for beyond the Curriculum Learning and for interdisciplinary knowledge, Personality and Character Development - Online Courses, Foreign Language/BEC/TOEFL/IELTS and any other co-curricular activities with prior approval of the Dean, Centre for Academics,	8 – 16	8 – 16
7	Employability Enhancement Courses (EEC) includes Mini Project, Project Work, Internship,	17 – 25	17 – 25

	Industrial/Practical Training, Entrepreneurship, Consultancy, Publication, Aptitude Training, Competitions and any other co-curricular activities with prior approval from Dean, Centre for Academics.		
8	Mandatory Courses (MC) include Professional Ethics, Constitution of India and Environmental Science	0	0
Total Credits		160-165*	120-125*

*** Except for B.E., (Agriculture Engineering)**

4.2 Personality and Character Development

The learners are encouraged to enroll in any one of the personalities and character development programme (**like NSS/YRC/NSO**) and undergo training for about 80 hours, within the first two years 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 Service Scheme (NSS) will have social service activities in and around the College. **Youth Red Cross (YRC)** will have activities related to social services in and around College. While the training activities will normally be during weekends, the camp will normally be during vacation period.

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

4.3 Credit Assignment

Each course is assigned a certain number of credits based on the number of periods the learner has to spend to learn the course.

Contact period per week	Credits
One Period of Learning Theory	1
One Period of Learning in Small Group	1
Two Periods of Learning through Practice (Laboratory/ Project Work)	1

4.4 Short term Industrial / Practical Training and Internship

4.4.1 Industrial Visit

Every learner 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.

The learner should undergo, short term **Industrial / Practical Training and Internship** in a company/research organization, during summer/winter vacation, approved by Dean, Centre for Academics and the Head of the Institution.

Industrial / Practical Training and Internship shall carry 100 marks and shall be evaluated through internal assessment only. At the end of internship, the candidate shall submit a certificate from the organization where he / she have undergone training and a brief report. The evaluation will be made based on the report and a Viva-Voce Examination, conducted internally by a three member of Departmental Committee, constituted by the Head of the Department. The grade will be awarded, based on the recommendation of the Industry partners (50% weightage), evaluation of the report (25% weightage) and viva-voce (25% weightage).

The learner can earn **1** credit, on completion of continuous 2 weeks, **Industrial / In-plant Training**, in Employment Enhancement category. The learner can earn **2** credits, on completion of continuous 4 weeks **Internship**, in Employment Enhancement category. Only **1** credit will be awarded, if the internship period is 2 weeks, (continuously).

Learners should earn a maximum of **2** credits for Internship and a maximum of **1** credit for industrial/practical training, during the entire duration of the Programme. The credits earned will be indicated in the Mark Sheet but **not included in the CGPA** for the award of degree.

4.4.2 Aptitude and Placement training

Courses on **Aptitude and Placement training** will be offered under the Employment Enhancement category, for **6** credits. Learner has to undergo Aptitude and Placement training courses and complete all the 6 courses. The learner should have completed the courses and should have earned the credits. The credits earned will be indicated in the Mark Sheet and is also **included in the CGPA** for the award of degree.

4.4.3 Mini Project

Learners as a team comprising a maximum of 3 members, should complete **Mini Project**, relevant to their branch of study and earn **2** credits, under the Employment Enhancement category. The Head of the Department shall constitute a review committee, comprising of 3 members, for Mini Project. The review committee shall assess the same based on the criteria, approved by Dean, Centre for Academics and award marks for 100. The credits earned will be indicated in the Mark Sheet and is also **included in the CGPA** for the award of degree.

4.5 Publication in Journal:

Credits will be awarded for publishing paper in Scopus Indexed journal at the rate of **1** credit for Source Normalized Impact Points (SNIP) of 0.01 to 0.5, **2** Credits for 0.51 to 1.00 and **3** Credits for SNIP greater than 1.01 under EEC. The learner can earn **1** credit, if his/her paper is published in IEEE Digital Explore, under EEC category, but **not included in the CGPA** for the award of degree.

4.6 Online Courses / Professional Certifications / Courses underwent in Other Institutions (India and Abroad)

4.6.1 Learners can earn credits by undergoing; Professional Certifications / Courses underwent in Other Institutions (India and Abroad) in any category, with the prior approval of the Dean, Centre for Academics and the Head of the Institution. Grades will be awarded based on grades awarded by the organization conducting the course and it will be finalized by the Dean, Centre for Academics and the Head of the Institution.

4.6.2 Learners may be permitted to register for two **Online courses**, subjected to a maximum of four credits, under the Open Elective Category. The approved list of online courses will be provided by the Centre for Academics, from time to time. The learner needs to obtain certification to earn his/her credit.

In addition to the certification obtained online, students shall be subjected to in-house assessment of the courses concerned, by a faculty nominated by Head of the Department and Approved by Dean, Centre for Academics. The credits earned will be indicated in the Mark Sheet, and will also be **included in the CGPA** for the award of degree. The details regarding, online courses or courses underwent in other institutions or professional certifications, taken up by learners, should be sent to the Controller of Examinations.

4.6.3 The learner can earn **2** credits, on completion of **BEC / IELTS / TOEFL / Foreign Language / Arts / Value Added Courses**, which are listed by Centre for Academics, under the Open Electives Category. The credits earned will be **included for CGPA**.

4.7 Project Work

Project work will be carried out in two phases. Phase I of the project work will be assessed internally. There is no end semester examination for Phase I project. Phase II of Project Work will have internal assessment and End Semester Examination.

Project work may be allotted to a single learner or to a group of learners not exceeding 3 per group preferably learners from different departments. The Head of the Department shall constitute a review committee, comprising of 5 members, for project work for each branch of study. There shall be three reviews during the semester by the review committee. The learner shall make a presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews will be for 50 marks and rounded to the nearest integer as per the scheme given in 4.7.1.

4.7.1 The project report shall be submitted as per the approved guidelines given by Dean, Centre for Academics. Same marks shall be awarded to every learner within the project group for the project report. The project report and viva-voce examination shall carry 50 marks. Marks are awarded to each learner of the project group based on the individual performance in the viva-voce examination.

Internal Assessment			End Semester Examination		Total
Review 1	Review 2	Review 3	Project Report and Viva Voce		
			Internal	External	
15	15	20	10	40	100

4.7.2 If a learner 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-register for the same in a subsequent semester.

4.7.3 The learners shall be permitted to carry out their final semester Project work for six months in industry/research organizations through the Head of Department, who shall recommend and

forward the proposal to the Centre for Academics for approval and the approval has to be communicated to the Controller of Examinations, prior to the commencement of project work.

4.8. Mandatory Courses

The courses such as Professional Ethics, Environmental Science and Constitution of India are mandatory. The minimum attendance percentage is 75% for each of these courses. Every learner should have undergone these courses, and should have passed the examinations. However, **no credits** are assigned for the courses.

4.9. Medium of Instruction

The medium of instruction is English for all courses, examinations, seminar presentations and Project / Thesis.

5. DURATION OF THE PROGRAMME

5.1 A learner is ordinarily expected to complete the B.E. / B.Tech. programme in 8 semesters (four academic years) but in any case, not more than 14 semesters for HSC (or equivalent) learners and not more than 12 semesters for Lateral Entry learners. The learner has to pay the tuition fee for every semester, until he/she completes the course.

5.2 Each semester shall normally consist of 75 working days or 540 periods of 50 minutes each.

5.3 The Head of the Institution shall ensure that every facilitator imparts instruction as per the number of periods specified in the syllabus and that the facilitator imparts the content of the specified syllabus for the course offered.

The Head of the Department may conduct additional classes for improvement, special coaching, conduct Formative assessment 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 learners, following method shall be used, for each course.

$$\text{Attendance \%} = \frac{\text{Total No. of periods attended in a particular course per semester}}{\text{Total No. of periods allotted for the course per semester}} \times 100\%$$

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

5.5 The total period for completion of the programme reckoned from the commencement of the first semester to which the learner was admitted shall not exceed the maximum period specified in clause

5.1 irrespective of the period of break of study (vide clause 18) in order that he/she may be eligible for the award of the degree (vide clause 16).

6. COURSE REGISTRATION

6.1 In each semester, the learner can register for a minimum of **18** credits and a maximum of **36** credits, (up to 6th semester). However, a learner can register less than the prescribed minimum credits, **under specific conditions**, with the approval of Dean, Centre for Academics.

6.2 The learner should register for the course **within three days**, when the course is open for registration.

6.3 The prerequisite as defined in the Syllabus, has to be satisfied, (the learner should have registered for the prerequisite course and obtained 75% of attendance), before registering for a particular course.

6.4 The learner is permitted to withdraw i.e., drop from the course, **within 5 working days** of registration.

6.5 The registration details of the learners should be approved by the Head of the Department and forwarded to the Controller of Examinations, through Centre for Academics. This registration is for undergoing the course as well as for writing the End Semester Examinations (vide clause 7).

6.6 Courses shall be offered by any department, if a minimum of 30 learners register for the course. Any change in this regard is at the sole discretion of Dean, Centre for Academics.

7. ATTENDANCE REQUIREMENTS FOR COMPLETION OF THE COURSE AND TO BE ELIGIBLE TO ATTEND THE END SEMESTER EXAM

7.1 A learner who has fulfilled the following conditions shall be deemed to have satisfied the requirements for completion of a course. Ideally every learner is expected to attend all classes of all the courses and secure 100% attendance. However, in order to give provision for certain unavoidable reason such as health conditions, the learner 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 attendance.

However, a candidate who secures attendance between 70% and 74% (after rounding off to the nearest integer) in a particular course due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in sports events may be permitted to appear for the current semester examination subject to the condition that the candidate shall submit the medical certificate /sports participation certificate attested by the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.

7.2 Candidates who secure **less than 70%** attendance for a particular course and candidates who do not satisfy the clause 7.1 shall **not be permitted** to write the **end semester examination, of that particular course(s) in that semester. They are required to re-register for the course.**

7.3 Every facilitator is required to maintain an Attendance and Assessment Record which consists of attendance marked in each lecture or practical or project work, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the Department periodically (at least three times in a semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the Department will put his/her signature and date after due verification. At the end of the semester, the record should be verified by the Head of the Institution who will keep this document in safe custody (for five years).

8. MENTOR

The role of Mentor is to help the learners in planning their courses of study and for general advice on the academic programme. The Head of the Department of the learners will assign 30 learners to a faculty of the Department who shall function as Mentor, for those learners throughout their period of study. The Mentor shall advise the learners in registering and reappearance for courses, authorize the process, monitor their attendance and progress and counsel them periodically. If necessary, the Mentor may also discuss with or inform the parents about the progress / performance of the learners concerned. The responsibilities for the Mentor shall be:

- To guide the learners' enrollment and registration of the courses.
- To authorize the final registration of the courses at the beginning of each semester.
- To inform the learners about the various facilities and activities available to enhance the learner's curricular and co-curricular activities.
- To monitor the academic and general performance of the learners including attendance and to counsel them accordingly.
- Analyzing the performance of the learners after each test and finding ways and means of solving problems, if any. Identifying the different learners, if any, and requesting the faculty concerned to provide some additional help or guidance.

9. CLASS COMMITTEE

Every course shall have a Class Committee for learners, consisting of teachers of the course concerned, learner representatives and a chairperson who is not teaching the course, probably a faculty of other departments.

The functions of the Class Committee include,

- a. Solving problems experienced by learners in the classroom and in the laboratories. Clarifying the regulations of the Degree Programme. Informing the learner representatives, the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing / project work etc.) the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the course committee for students meeting.
- b. Informing the learner representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment.

9.1 The Class committee for learners for a course under a particular branch is normally constituted by the Head of the Department. However, if the learners of different branches are mixed in a class, the Class Committee for students is to be constituted by the Head of the Institution.

9.2 The Class Committee for learners shall be constituted within the **first week** of each semester.

9.3 At least 4 learner representatives (boys and girls) shall be included in the Class Committee for the learners.

9.4 The Chairperson of the Class Committee for learners may invite the Head of the Department to the course for the Class Committee meeting.

9.5 The Head of the Institution may participate in any of the Class Committee meeting for learners.

9.6 The chairperson is required to prepare the minutes of every meeting, submit the same to the Dean, Centre for Academics and Head of the Institution, within **two days** of the meeting and arrange to circulate it among the learners 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 for learners shall be held within **one week** from the date of commencement of the semester, in order to inform the learners 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 for learners' Chairman shall put on the Notice Board the cumulative attendance particulars of each learner at the end of every such

meeting to enable the learners to know their attendance details to satisfy the clause 7 of this Regulation. During these meetings the learner members representing the entire course, shall meaningfully interact and express the opinions and suggestions of the other learners 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 branch shall have a “Course Committee” comprising all the facilitators imparting 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 facilitators imparting the common course belong to a single department or to several departments. The ‘Course committee’ shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible, the course committee may also prepare a common question paper for the internal assessment(s).

11. SYSTEM OF EXAMINATION

11.1 Performance in each course of study shall be evaluated based on

- (i) Continuous Internal Assessment throughout the semester (Formative Assessment) and
- (ii) End Semester examination at the end of the semester (Summative Assessment).

11.2 Each course, both theory and/or practical (including project work & viva voce Examinations) shall be evaluated for a maximum of 100 marks. For all theory and/or practical courses (including project work), the Continuous Internal Assessment will carry a weightage of 50 marks while the End - Semester examination will carry a weightage of 50 marks. For theory cum practical courses, the following formula will be used for the calculation of total marks for that course.

$$\text{Total Marks} = \left[\frac{TC}{TC + PC} \times \text{Marks obtained in Theory} \right] + \left[\frac{PC}{TC + PC} \times \text{Marks obtained in Practical} \right]$$

TC – Credits for Theory Component

PC – Credits for Practical Component

11.3 Industrial training and Internship shall carry 100 marks and shall be evaluated through internal assessment only.

- 11.4** The End Semester examination (theory and/or 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.
- 11.5** The End Semester examination for project work shall consist of evaluation of the final report submitted by the learner or learners of the project group (of not exceeding 3 learners) by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each learner by a committee consisting of the external examiner, the supervisor of the project group and an internal examiner.
- 11.6** For the End Semester examination in both theory and practical courses including project work the internal and external examiners shall be appointed by the Controller of Examinations.
- 11.7 Theory Courses Integrated with Lab**
The learner has to register for the theory course integrated with lab, for the total credit assigned. If the learner has failed in the theory or practical component, he/she has to re-register for the course along with practical or theory component respectively.
- 11.8** Courses will be offered during winter and summer vacation. Learners, who have not secured a pass in the previous semester, can register themselves for this course(s), attend classes, earn internal marks and write the end semester exam which will be conducted at the end of the course period. Course fee will be applicable to these courses, in addition to the semester fees.
- 11.9** Supplementary exams will be conducted during the course of the succeeding semester for the courses approved by the Academic Committee of the Institution.

12. PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

For all theory and/or practical courses (including project work) the continuous assessment shall be for a maximum of 50 marks. The above continuous assessment shall be awarded as per the procedure given below:

12.1 Theory Courses

Three tests shall be conducted during the semester by the department concerned.

Theory - Internal Assessment Pattern

Mode of Assessment	Maximum Marks	Weightage
Continuous Internal Assessment 1	50	10
Continuous Internal Assessment 2	50	10
Continuous Internal Assessment 3	50	10
Quiz/Assignment/Seminar/Mini Project in the course/Simulation work relevant to the course*	50	20
Total	100	50

*Necessary proof to be submitted

12.2 Laboratory Courses

The maximum marks for Internal Assessment shall be 50 in case of practical courses. Every practical shall be evaluated based on conduct of Exercise / Experiment, Records maintained and Viva voce. Double the weightage will be given to the Model Practical Examination.

Practical - Internal Assessment Pattern

$$\text{Internal Assessment Marks} = \left(\frac{A+2B}{12} \right) \%$$

A = Sum of Marks for best 10 experiments (Maximum marks 100 for each experiment)

B = Marks for Model Practical Examination

13. REQUIREMENTS FOR APPEARING FOR END SEMESTER EXAMINATIONS

- i) A candidate shall normally be permitted to appear for the End Semester Examinations for all the courses registered in the current semester (vide clause 6 and 7).
- ii) A candidate who has already appeared for any subject in a semester and passed the examination is **not entitled to reappear** in the same subject for improvement of grades.

14. PASSING REQUIREMENTS

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

14.2 If a learner fails to secure a pass in a Theory course/ Practical / Project Work, the learner shall Re-register for that course in the subsequent semester, when offered next, earn internal assessment marks and attend the end semester examination.

14.3 A learner has to obtain minimum 50% in both theory and practical individually, of a theory cum practical course, to pass in that course.

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 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	Marks Range
O (Outstanding)	10	91 - 100
A+ (Excellent)	9	81 - 90
A (Very Good)	8	71 - 80
B+ (Good)	7	61 - 70
B (Average)	6	50 - 60
RA (Re-Appeal)	0	< 50
SA (Shortage of Attendance)	0	
W (Withdrawal)	0	

A learner 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 7) and hence prevention from writing the end semester examinations.
- “RA” denotes that the learner has failed to pass in that course and he/she has to Re-Register, for that particular course.

- “W” denotes withdrawal from the exam for the particular course.
- In case of “RA”, the learner has to earn Internal Assessment marks and appear for the End Semester Examinations, for that particular course.
- If the grade “RA” is given to a Theory course/Laboratory Course/Project work / Seminar and any other EEC course, the attendance requirements (vide clause 7) should be satisfied.

Grade sheet:

After results are declared, Grade Sheets will be issued to each learner which will contain:

- Name of the College
- List of courses enrolled during the semester and the grade secured.
- Grade Point Average (GPA) for the semester
- 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.

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

Where,

C_i is the number of Credits assigned to the course.

GP_i is the point corresponding to the grade obtained for each course.

n is the 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.

Grades will not be assigned for Mandatory/ Non CGPA courses.

16. ELIGIBILITY FOR THE AWARD OF THE DEGREE

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

- a. Successfully gained the required number of total credits as specified in the curriculum corresponding to the learner's programme within the stipulated time.
- b. 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 (and 6 years in the case of Lateral Entry) reckoned from the commencement of the first (third in the case of Lateral Entry) semester to which the candidate was admitted.
- c. Successfully passed any additional courses prescribed by the Dean, Centre for Academics, whenever readmitted under regulations R-2019 (vide clause 18.3)
- d. No disciplinary action pending against the learner.
- e. The award of Degree must have been approved by the Syndicate of the University.

16.2 Classification of the Degree Awarded

16.2.1 First Class with Distinction

A learner 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 8 semesters / 6 semesters (in the case of Lateral Entry) in the learner's First Appearance within 5 years / 4 years (in the case of Lateral Entry).
- Withdrawal from examination (vide Clause 17) will not be considered as an appearance. The candidate should have secured a CGPA of **greater than or equal to 8.50**.
- One year authorized break of study (if availed of) is included in the 5 years (and 4 years in the case of lateral entry) for award of First class with Distinction.
- The learner should NOT have been prevented from writing end semester examination due to lack of attendance in any semester.

16.2.2 First Class

A learner 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 (and 6 semesters in the case of Lateral Entry) within 6 years (5 years in case of lateral entry).

- One year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of 6 years (and 5 years in the case of lateral entry), for award of First class.
- Should have secured a CGPA of **not less than 7.00**.

16.2.3 Second Class

All other learners (not covered in clauses 16.2.1 and 16.2.2) who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in Second Class.

16.3 A candidate who is absent for end semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification. (Subject to clause 17 and 18)

16.4 Photocopy / Revaluation

A candidate can apply for photocopy of his/her semester examination answer paper in a theory course, **within 2 weeks** from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of Institution. The answer script is to be valued and justified by a faculty member, who handled the subject and recommend for revaluation with breakup of marks for each question. Based on the recommendation, the candidate can register for the revaluation through proper application to the Controller of Examinations. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the candidate concerned through the Head of the Institution. Revaluation is **not permitted for practical courses and for project work**. A candidate can apply for revaluation of answer scripts for **not exceeding 5 subjects** at a time.

16.5 Review

Candidates not satisfied with Revaluation can apply for Review 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 Examination through the Head of the Institution. Candidates who have applied for revaluation only are eligible to apply for Review.

17. PROVISION FOR WITHDRAWAL FROM END SEMESTER EXAMINATION

17.1 A learner may, for valid reasons, (medically unfit / unexpected family situations / sports approved by 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 Dean, Centre for Academics, through the Head of the Department with required documents.

17.2 Withdrawal application is valid if the learner is otherwise eligible to write the examination (Clause 7) 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 Institution and approved by the Controller of Examinations.

17.2.1 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.

17.3 In case of withdrawal from a course / courses (Clause 13) the course will figure both in Marks Sheet as well as in Result Sheet. Withdrawal essentially requires the learner to register for the course/courses. The learner has to register for the course, fulfill the attendance requirements (vide clause 7), earn continuous assessment marks and attend the end semester examination. However, withdrawal shall not be construed as an appearance for the eligibility of a candidate for First Class with Distinction.

17.4 Withdrawal is permitted for the end semester examinations in the final semester, only if the period of study of the learner concerned does not exceed 5 years as per clause 16.2.1.

18. PROVISION FOR AUTHORISED BREAK OF STUDY

18.1 A learner is permitted to go on break of study for a maximum period of six months as a single spell.

18.2 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 candidate may apply for additional break of study not exceeding another one year by paying prescribed fee for break of study. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Dean, Centre for Academics, in advance, through Head of the Department, stating the reasons and the probable date of rejoining the programme, but not later than the last date for registering for the end semester examination of the semester in question, which will be further approved by the Head of the Institution.

18.3 The candidates 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 learners rejoining in new Regulations shall apply to the Dean, Centre for Academics in the prescribed format through Head of the Institution 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.

- 18.4** The authorized break of study would not be counted towards the duration specified for passing all the courses for the purpose of classification (vide Clause 16.1).
- 18.5** 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 in order that he/she may be eligible for the award of the degree.
- 18.6** If any learner is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1)

19. DISCIPLINE

- 19.1** Every learner 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. The Head of Institution shall constitute a disciplinary committee consisting of Discipline in charge, Two Heads of Department of which one should be from the faculty of the learner, to enquire into acts of indiscipline and notify the disciplinary action recommended for approval.
- 19.2** If a learner indulges in malpractice in any of the internal or end semester examination he / she shall be liable for punitive action as prescribed by the college from time to time.

20. 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 with the approval of Governing Council.

21. SPECIAL CASES

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

ANNEXURE – I

FOUR YEAR B.E. DEGREE COURSES:

- 1. Agriculture Engineering**
- 2. Biomedical Engineering**
- 3. Civil Engineering**
- 4. Computer Science and Engineering**
- 5. Electrical and Electronics Engineering**
- 6. Electronics and Communication Engineering**
- 7. Electronics and Instrumentation Engineering**
- 8. Mechanical Engineering**
- 9. Medical Electronics**

FOUR YEAR B.Tech. COURSES:

- 1. Artificial Intelligence and Data Science**
- 2. Chemical Engineering**
- 3. Information Technology**

AMENDMENTS IN REGULATIONS 2019 - UG

Based on the approval of the second Academic Council Meeting held on 22.12.2020., the following amendments are made in the Regulations 2019 of Undergraduate courses.

REVISED

12.2 Practical Internal Assessment Marks

12.2 Laboratory Courses

The maximum marks for Internal Assessment shall be 50 in case of practical courses. Every practical shall be evaluated based on conduct of Exercise / Experiment, Records maintained and Viva voce. Double the weightage will be given to the Model Practical Examination.

Practical - Internal Assessment Pattern

Internal Assessment Marks = $(A + 2B) / (n+2) \%$

A = Sum of Marks for best of n experiments (Maximum marks 100 for each experiment)

B = Marks for Model Practical Examination.

n \geq 6

EXISTING

12.2 Laboratory Courses

The maximum marks for Internal Assessment shall be 50 in case of practical courses. Every practical shall be evaluated based on conduct of Exercise / Experiment, Records maintained and Viva voce. Double the weightage will be given to the Model Practical Examination.

Practical - Internal Assessment Pattern

Internal Assessment Marks = $\left(\frac{A+2B}{12}\right) \%$

A = Sum of Marks for best 10 experiments (Maximum marks 100 for each experiment)

B = Marks for Model Practical Examination

REVISED

16. ELIGIBILITY FOR THE AWARD OF THE DEGREE

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

- a. Successfully gained the required **minimum number of credits in each category** as specified in the **regulations** within the stipulated time”.

EXISTING

16. ELIGIBILITY FOR THE AWARD OF THE DEGREE

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

- a. Successfully gained the required number of **total credits** as specified in the curriculum corresponding to the learner’s programme within the stipulated time.

The above mentioned changes are applicable to all the learners admitted from the year 2019.

CONTROLLER OF EXAMINATIONS

PRINCIPAL



AMENDMENTS IN REGULATIONS 2019 – UG

Approved during 5th Academic Council Meeting held on 20.01.2022

The amendments listed below, are for the **UG learners admitted only in the academic year 2019 -2020 or for the batch 2019 – 2023 only**. This is because of Covid 19 pandemic.

Clause No.	Existing	Revised
4.2	Personality and Character Development	
	<p>The learners are encouraged to enroll in any one of the personalities and character development programme (like NSS/YRC/NSO) and undergo training for about 80 hours, within the first two years and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid.</p> <p>National Service Scheme (NSS) will have social service activities in and around the College. Youth Red Cross (YRC) will have activities related to social services in and around College. While the training activities will normally be during weekends, the camp will normally be during vacation period.</p> <p>National Sports Organization (NSO) will have sports, Games, Drills and Physical exercises.</p>	<p>The learners are encouraged to enroll in any one of the personalities and character development programme (like NSS/YRC/NSO) and undergo training for about 80 hours, within the first two years and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid.</p> <p>National Service Scheme (NSS) will have social service activities in and around the College. Youth Red Cross (YRC) will have activities related to social services in and around College. While the training activities will normally be during weekends, the camp will normally be during vacation period.</p> <p>National Sports Organization (NSO) will have sports, Games, Drills and Physical exercises.</p> <p>This cocurricular activity is not mandatory for the award of the degree.</p>
4.4	Short term Industrial / Practical Training and Internship	
	<p>The learner should undergo, short term Industrial / Practical Training and Internship in a company/research organization, during summer/winter vacation, approved by Dean, Centre for Academics and the Head of the Institution.</p>	<p>The learner should undergo, short term Industrial / Practical Training and Internship in a company/research organization, during summer/winter vacation, approved by Dean, Centre for Academics and the Head of the Institution.</p>

	<p>Industrial / Practical Training and Internship shall carry 100 marks and shall be evaluated through internal assessment only. At the end of internship, the candidate shall submit a certificate from the organization where he / she have undergone training and a brief report. The evaluation will be made based on the report and a Viva-Voce Examination, conducted internally by a three member of Departmental Committee, constituted by the Head of the Department. The grade will be awarded, based on the recommendation of the Industry partners (50% weightage), evaluation of the report (25% weightage) and viva-voce (25% weightage).</p> <p>The learner can earn 1 credit, on completion of continuous 2 weeks, Industrial / In-plant Training, in Employment Enhancement category. The learner can earn 2 credits, on completion of continuous 4 weeks Internship, in Employment Enhancement category. Only 1 credit will be awarded, if the internship period is 2 weeks, (continuously). Learners should earn a maximum of 2 credits for Internship and a maximum of 1 credit for industrial/practical training, during the entire duration of the Programme. The credits earned will be indicated in the Mark Sheet but not included in the CGPA for the award of degree.</p>	<p>Industrial / Practical Training and Internship shall carry 100 marks and shall be evaluated through internal assessment only. At the end of internship, the candidate shall submit a certificate from the organization where he / she have undergone training and a brief report. The evaluation will be made based on the report and a Viva-Voce Examination, conducted internally by a three member of Departmental Committee, constituted by the Head of the Department. The grade will be awarded, based on the recommendation of the Industry partners (50% weightage), evaluation of the report (25% weightage) and viva-voce (25% weightage).</p> <p>The learner can earn 1 credit, on completion of continuous 2 weeks, Industrial / In-plant Training, in Employment Enhancement category. The learner can earn 2 credits, on completion of continuous 4 weeks Internship, in Employment Enhancement category. Only 1 credit will be awarded, if the internship period is 2 weeks, (continuously). Learners should earn a maximum of 2 credits for Internship and a maximum of 1 credit for industrial/practical training, during the entire duration of the Programme. The credits earned will be indicated in the Mark Sheet but not included in the CGPA for the award of degree.</p> <p>Alternatively, in lieu of these courses, they can enroll for an additional Professional Elective Course, not Open Elective and earn the 3 credits.</p>
--	--	---

CONTROLLER OF EXAMINATIONS

PRINCIPAL

AMENDMENTS IN REGULATIONS 2019 – UG

Approved during 7th Academic Council Meeting held on 24.01.2023

The amendments listed below, are for the **UG students admitted from the academic year 2021 -2022 onwards.**

Clause No.	Existing	Revised																																																		
4.7	Project Work																																																			
4.7.1	<div>Awarding of Marks<table><tr><th colspan="3">Internal Assessment</th><th colspan="2">End Semester Examination</th><th rowspan="4">Total</th></tr><tr><th>Review 1</th><th>Review 2</th><th>Review 3</th><th colspan="2">Project Report and Viva Voce</th></tr><tr><th></th><th></th><th></th><th>Internal</th><th>External</th></tr><tr><td>15</td><td>15</td><td>20</td><td>10</td><td>40</td></tr></table></div>	Internal Assessment			End Semester Examination		Total	Review 1	Review 2	Review 3	Project Report and Viva Voce					Internal	External	15	15	20	10	40	<div>Awarding of Marks<table><tr><th colspan="3">Internal Assessment (40 Marks)</th><th colspan="5">End Semester Examination (60 Marks)</th></tr><tr><th rowspan="2">Review I</th><th rowspan="2">Review II</th><th rowspan="2">Review III</th><th colspan="2">Project Report</th><th colspan="3">Viva Voce</th></tr><tr><th>Internal</th><th>External</th><th>Internal</th><th>External</th><th>Supervisor</th></tr><tr><td>10</td><td>15</td><td>15</td><td>10</td><td>10</td><td>10</td><td>20</td><td>10</td></tr></table></div>	Internal Assessment (40 Marks)			End Semester Examination (60 Marks)					Review I	Review II	Review III	Project Report		Viva Voce			Internal	External	Internal	External	Supervisor	10	15	15	10	10	10	20	10
Internal Assessment			End Semester Examination		Total																																															
Review 1	Review 2	Review 3	Project Report and Viva Voce																																																	
			Internal	External																																																
15	15	20	10	40																																																
Internal Assessment (40 Marks)			End Semester Examination (60 Marks)																																																	
Review I	Review II	Review III	Project Report		Viva Voce																																															
			Internal	External	Internal	External	Supervisor																																													
10	15	15	10	10	10	20	10																																													
11.	SYSTEM OF EXAMINATION																																																			
11.2	<div>Each course, both theory and/or practical (including project work & viva voce Examinations) shall be evaluated for a maximum of 100 marks. For all theory and/or practical courses (including project work), the Continuous Internal Assessment will carry a weightage of 50 marks while the End - Semester examination will carry a weightage of 50</div>	<div>11.2. Each course, both theory and/or practical (including project work & viva voce Examinations) shall be evaluated for a maximum of 100 marks. 11.2.1 For all theory courses, the internal assessment will carry 40 marks while the End Semester Examination will carry 60 marks. 11.2.2 For all laboratory courses, the internal assessment will carry 60</div>																																																		

	<p>marks. For theory cum practical courses, the following formula will be used for the calculation of total marks for that course.</p> $TotalMarks = \left[\frac{TC}{TC + PC} \times Marks_{obtained\ in\ Theory} \right] + \left[\frac{PC}{TC + PC} \times Marks_{obtained\ in\ Practical} \right]$ <p>TC – Credits for Theory Component PC - Credits for Practical Component</p>	<p>marks while the End Semester Examination will carry 40 marks.</p> <p>11.2.3 For all theory cum practical courses, the internal assessment will carry 50 marks while the End Semester Examination will carry 50 marks.</p>																																	
12	PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT																																		
12.1	<p>Theory Courses: Three tests shall be conducted during the semester by the department concerned.</p>	<p>Theory Courses: Two assessments each carrying 100 marks shall be conducted during the semester, by the department concerned. The total marks obtained in all assessments put together out of 200, shall be proportionately reduced for 40 marks and rounded to the nearest integer (This also implies equal weightage to the two assessments).</p>																																	
	<table><tr><th>Mode of Assessment</th><th>Maximum Marks</th><th>Weightage</th></tr><tr><td>Continuous Internal Assessment 1</td><td>50</td><td>10</td></tr><tr><td>Continuous Internal Assessment 2</td><td>50</td><td>10</td></tr><tr><td>Continuous Internal Assessment 3</td><td>50</td><td>10</td></tr><tr><td>Quiz/Assignment/Seminar/Mini Project in the course/Simulation work relevant to the course*</td><td>50</td><td>20</td></tr><tr><td>Total</td><td>100</td><td>50</td></tr></table> <p>*Necessary Proof to be submitted</p>	Mode of Assessment	Maximum Marks	Weightage	Continuous Internal Assessment 1	50	10	Continuous Internal Assessment 2	50	10	Continuous Internal Assessment 3	50	10	Quiz/Assignment/Seminar/Mini Project in the course/Simulation work relevant to the course*	50	20	Total	100	50	<table><tr><th colspan="2">Assessment I (100 Marks)</th><th colspan="2">Assessment II (100 Marks)</th><th rowspan="2">Total Internal Assessment</th></tr><tr><th>Individual Assignment/Case Study/ Seminar/Mini Project/any other experiential Learning</th><th>Written Test</th><th>Individual Assignment / Case Study / Seminar / Mini Project /any other experiential Learning</th><th>Written Test</th></tr><tr><td>40</td><td>60</td><td>40</td><td>60</td><td>200*</td></tr></table> <p>*The weighted average shall be converted into 40 marks for internal Assessment.</p>		Assessment I (100 Marks)		Assessment II (100 Marks)		Total Internal Assessment	Individual Assignment/Case Study/ Seminar/Mini Project/any other experiential Learning	Written Test	Individual Assignment / Case Study / Seminar / Mini Project /any other experiential Learning	Written Test	40	60	40	60	200*
Mode of Assessment	Maximum Marks	Weightage																																	
Continuous Internal Assessment 1	50	10																																	
Continuous Internal Assessment 2	50	10																																	
Continuous Internal Assessment 3	50	10																																	
Quiz/Assignment/Seminar/Mini Project in the course/Simulation work relevant to the course*	50	20																																	
Total	100	50																																	
Assessment I (100 Marks)		Assessment II (100 Marks)		Total Internal Assessment																															
Individual Assignment/Case Study/ Seminar/Mini Project/any other experiential Learning	Written Test	Individual Assignment / Case Study / Seminar / Mini Project /any other experiential Learning	Written Test																																
40	60	40	60	200*																															
12.2	<p>Laboratory Courses The maximum marks for Internal Assessment shall be 50 in</p>	<p>Laboratory Courses The maximum marks for Internal Assessment shall be 60 marks</p>																																	

	<p>case of practical courses. Every practical shall be evaluated based on conduct of Exercise / Experiment, Records maintained and Viva voce. Double the weightage will be given to the Model Practical Examination.</p> <p>Practical - Internal Assessment Pattern</p> <p>Internal Assessment Marks= (A +2B) / (n+2) %</p> <p>A = Sum of Marks for best of n experiments (Maximum marks 100 for each experiment)</p> <p>B = Marks for Model Practical Examination.</p> <p style="text-align: center;">n >= 6</p> <p><i><u>NOTE:</u> This amendment was made with the approval from the 2nd Academic Council Meeting Held on 22.12.2020.</i></p>	<p>in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records are to be maintained. There shall be at least one test. The criterion for arriving at the Internal Assessment marks of 60 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.</p> <table border="1"><tr><th colspan="2">Internal Assessment (100 Marks)*</th></tr><tr><td>Evaluation of Laboratory Observation, Record</td><td>Test</td></tr><tr><td>75</td><td>25</td></tr></table> <p><i>* Internal assessment marks shall be converted into 60 marks</i></p>	Internal Assessment (100 Marks)*		Evaluation of Laboratory Observation, Record	Test	75	25																																						
Internal Assessment (100 Marks)*																																														
Evaluation of Laboratory Observation, Record	Test																																													
75	25																																													
12.3		<p>Theory Cum Practical Courses</p> <p>Weightage of internal assessment and end semester examination marks will be 50% each. The distribution of marks for the theory and laboratory components in the internal assessments and end semester examination for different types of courses are provided in the table below.</p> <table border="1"><tr><th rowspan="2">L</th><th rowspan="2">T</th><th rowspan="2">P</th><th rowspan="2">C</th><th colspan="2">Internal</th><th rowspan="2">End Semester examination</th></tr><tr><th>Assessment 1</th><th>Assessment 2</th></tr><tr><td>1</td><td>0</td><td>4</td><td>3</td><td>Laboratory (25%)</td><td>Theory (25%)</td><td>Laboratory only (50%)</td></tr><tr><td>1</td><td>0</td><td>2</td><td>2</td><td>Laboratory (25%)</td><td>Theory (25%)</td><td>Laboratory only (50%)</td></tr><tr><td>2</td><td>0</td><td>2</td><td>3</td><td>Theory (25%)</td><td>Laboratory (25%)</td><td>Theory (25%) Laboratory (25%)</td></tr><tr><td>3</td><td>0</td><td>2</td><td>4</td><td>Theory (25%)</td><td>Laboratory (25%)</td><td>Theory (35%) Laboratory (15%)</td></tr><tr><td>2</td><td>0</td><td>4</td><td>4</td><td>Theory (25%)</td><td>Laboratory (25%)</td><td>Theory (15%) Laboratory (35%)</td></tr></table>	L	T	P	C	Internal		End Semester examination	Assessment 1	Assessment 2	1	0	4	3	Laboratory (25%)	Theory (25%)	Laboratory only (50%)	1	0	2	2	Laboratory (25%)	Theory (25%)	Laboratory only (50%)	2	0	2	3	Theory (25%)	Laboratory (25%)	Theory (25%) Laboratory (25%)	3	0	2	4	Theory (25%)	Laboratory (25%)	Theory (35%) Laboratory (15%)	2	0	4	4	Theory (25%)	Laboratory (25%)	Theory (15%) Laboratory (35%)
L	T	P					C	Internal		End Semester examination																																				
			Assessment 1	Assessment 2																																										
1	0	4	3	Laboratory (25%)	Theory (25%)	Laboratory only (50%)																																								
1	0	2	2	Laboratory (25%)	Theory (25%)	Laboratory only (50%)																																								
2	0	2	3	Theory (25%)	Laboratory (25%)	Theory (25%) Laboratory (25%)																																								
3	0	2	4	Theory (25%)	Laboratory (25%)	Theory (35%) Laboratory (15%)																																								
2	0	4	4	Theory (25%)	Laboratory (25%)	Theory (15%) Laboratory (35%)																																								

		<p>The procedure for the conduct of internal assessments for theory and laboratory components shall be as per clause 12.1 and 12.2.</p> <p>The weighted average shall be converted into 50 marks for Internal Assessment.</p> <p>For other Theory Cum Practical Courses with different L T P C formats, the weightage of marks for Theory and Laboratory components may be fixed in proportion to lecture and practical contact periods. However, the weightage for internal and end semester examination marks will remain as 50% each.</p>																											
15	AWARD OF LETTER GRADES																												
15.1	<p>All assessments of a course will be evaluated on absolute marks basis.</p> <table border="1"> <thead> <tr> <th>Letter Grade</th><th>Grade Points</th><th>Marks Range</th></tr> </thead> <tbody> <tr> <td>O (Outstanding)</td><td>10</td><td>91 - 100</td></tr> <tr> <td>A+ (Excellent)</td><td>9</td><td>81 - 90</td></tr> <tr> <td>A (Very Good)</td><td>8</td><td>71 - 80</td></tr> <tr> <td>B+ (Good)</td><td>7</td><td>61 - 70</td></tr> <tr> <td>B (Average)</td><td>6</td><td>50 - 60</td></tr> <tr> <td>RA (Re-Appear)</td><td>0</td><td>< 50</td></tr> <tr> <td>SA (Shortage of Attendance)</td><td>0</td><td></td></tr> <tr> <td>W (Withdrawal)</td><td>0</td><td></td></tr> </tbody> </table>	Letter Grade	Grade Points	Marks Range	O (Outstanding)	10	91 - 100	A+ (Excellent)	9	81 - 90	A (Very Good)	8	71 - 80	B+ (Good)	7	61 - 70	B (Average)	6	50 - 60	RA (Re-Appear)	0	< 50	SA (Shortage of Attendance)	0		W (Withdrawal)	0		<p>For the students admitted from the academic year 2021 -22 onwards, the award of letter grades will be decided using relative grading principle. The relative grading is applicable to ONLY those students who have passed the examination as per the passing requirements enumerated above. For those students who have not passed the examination, Reappearance (U) shall be awarded as shown in the below Table.</p> <p>The marks of those students who have passed only shall be inputted in the software developed for relative grading. The evolved relative grading method normalizes the results data using the BOX-COX transformation method and computes the grade range for each course separately and awards the grade to each student. For a given course, if the students' strength is greater than 30, the relative grading method shall be adopted.</p> <p>However, for the Project Work/Internship, Laboratory Courses and for Courses with students' strength less than or equal to 30, fixed grading shall be followed with the grade range as specified below.</p>
Letter Grade	Grade Points	Marks Range																											
O (Outstanding)	10	91 - 100																											
A+ (Excellent)	9	81 - 90																											
A (Very Good)	8	71 - 80																											
B+ (Good)	7	61 - 70																											
B (Average)	6	50 - 60																											
RA (Re-Appear)	0	< 50																											
SA (Shortage of Attendance)	0																												
W (Withdrawal)	0																												

		<table><tr><th>O</th><th>A+</th><th>A</th><th>B+</th><th>B</th><th>C</th><th>U</th></tr><tr><td>91 - 100</td><td>81 - 90</td><td>71 - 80</td><td>61 - 70</td><td>56- 60</td><td>50 - 55</td><td>< 50</td></tr></table> <p>The performance of a student shall be reported using letter grades, each carrying certain points as detailed below:</p> <table><tr><th>Letter Grade</th><th>Grade Points</th></tr><tr><td>O (Outstanding)</td><td>10</td></tr><tr><td>A+ (Excellent)</td><td>9</td></tr><tr><td>A (Very Good)</td><td>8</td></tr><tr><td>B+ (Good)</td><td>7</td></tr><tr><td>B (Average)</td><td>6</td></tr><tr><td>C (Satisfactory)</td><td>5</td></tr><tr><td>U (Re-Appearence)</td><td>0</td></tr><tr><td>SA (Shortage of Attendance)</td><td>0</td></tr><tr><td>WD (Withdrawal)</td><td>0</td></tr></table>	O	A+	A	B+	B	C	U	91 - 100	81 - 90	71 - 80	61 - 70	56- 60	50 - 55	< 50	Letter Grade	Grade Points	O (Outstanding)	10	A+ (Excellent)	9	A (Very Good)	8	B+ (Good)	7	B (Average)	6	C (Satisfactory)	5	U (Re-Appearence)	0	SA (Shortage of Attendance)	0	WD (Withdrawal)	0
O	A+	A	B+	B	C	U																														
91 - 100	81 - 90	71 - 80	61 - 70	56- 60	50 - 55	< 50																														
Letter Grade	Grade Points																																			
O (Outstanding)	10																																			
A+ (Excellent)	9																																			
A (Very Good)	8																																			
B+ (Good)	7																																			
B (Average)	6																																			
C (Satisfactory)	5																																			
U (Re-Appearence)	0																																			
SA (Shortage of Attendance)	0																																			
WD (Withdrawal)	0																																			
15.2		Award of B.E. / B. Tech. (Hons) Specialisation in the same discipline, B.E. / B. Tech. (Hons) and B.E. / B. Tech. minor in other specialisation.																																		
		<p>(i) B.E./B.Tech. Honours (specialisation in the same discipline):</p> <ul style="list-style-type: none">a. The learner should have earned additionally a minimum of 18 credits from a vertical of the same programme.b. Learner should have passed all the courses in the first attempt.c. Learner should have earned a minimum CGPA of 7.50.d. The learners will be permitted to register the courses, only if he/she has earned 90 credits and the CGPA for the 90 credits is 7.50 and above. All the courses should have been cleared in the first attempt. <p>(ii) B.E./B.Tech. Honours</p> <ul style="list-style-type: none">a. The learner should have earned additionally a minimum of 18 credits from more than one vertical of the same programme.b. Learner should have passed all the courses in the first attempt.c. Learner should have earned a minimum CGPA of 7.50.																																		

		<p>d. The learners will be permitted to register the courses, only if he/she has earned 90 credits and the CGPA for the 90 credits is 7.50 and above. All the courses should have been cleared in the first attempt.</p>
		<p>(iii) B.E./B.Tech. (Minor in other Specialization)</p> <p>a. The learner should have earned additionally a minimum of 18 credits from any one of the verticals of other B.E./B.Tech., programmes.</p> <p>b. Learner should have earned a minimum CGPA of 7.50.</p> <p>c. The learners will be permitted to register the courses, only if he/she has earned 90 credits and the CGPA for the 90 credits is 7.50 and above.</p>
		<p>(iv) Learners can earn maximum of 6 credits in Online mode (Swayam Platform), out of these 18 credits as approved by the academic committee.</p> <p>(v) If a learner decides not to opt for Honours, after completing certain number of additional courses, the additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum. If the learner 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. Remaining courses shall be printed in the grade sheet, however, they will not be considered for calculation of CGPA.</p>
	-	<p>(vi) If a learner 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 learner 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. Remaining courses shall be printed in the grade sheet, however, they will not be considered for calculation of CGPA.</p>

16.2	Classification of the Degree Awarded	
16.2.3	Second Class	
		B.E./B.Tech. Regular, and lateral entry and B.E./B.Tech. minor in other specialisation degree learners who do not qualify for the award of the degree (vide Clause 16.2.1 and Clause 16.2.2) shall be declared to have passed the examination in Second Class .
16.2.4		Learners earned additional 18 credits as per Clause 15.2 but do not satisfy all the conditions mentioned in 16.2.1 and Clause 16.2.2, shall not be awarded B.E./B.Tech.Honours. In such cases the grade sheet will show the additional courses studied and those courses shall not be considered for CGPA computation. In such case if the learner becomes eligible for First Class, while computing CGPA without taking into account the additional course studied, the student shall be awarded B.E. / B.Tech. in First Class only.

CONTROLLER OF EXAMINATIONS

PRINCIPAL