

**B.E./B.Tech.**  
**Regulations 2024**  
**(Academic Year 2024-25 Onwards)**



**Note:** The regulations here under are subject to amendments as may be made by the Academic Council of the College from time to time. Any or all such amendments will be effective from such date and to such batches of candidates (including those already undergoing the program) as may be decided by the Academic Council.

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# **K.S.R. COLLEGE OF ENGINEERING**

**Tiruchengode - 637215**

## **REGULATIONS 2024**

### **CHOICE BASED CREDIT SYSTEM**

**Common to all B. E. / B. Tech. Full-Time Programmes**

### **DEGREE OF BACHELOR OF ENGINEERING / BACHELOR OF TECHNOLOGY**

This Regulation is applicable to the students admitted to B.E/B.Tech. from the academic year 2024-2025 onwards.

#### **1. PRELIMINARY DEFINITIONS AND NOMENCLATURE**

In these Regulations, unless the context otherwise requires:

- I. **“University”** means ANNA UNIVERSITY, Chennai.
- II. **“College”** means K.S.R. College of Engineering, Tiruchengode, an Autonomous Institution affiliated to Anna University, Chennai and approved by AICTE, New Delhi.
- III. **“Programme”** means Degree Programme (i.e.) B.E. / B.Tech. Degree Programme.
- IV. **“Branch”** means specialization or discipline of B.E. / B.Tech. Degree Programme, like Mechanical Engineering, Information Technology, etc.
- V. **“Course”** means a theory or practical subject that is offered in a semester, like Basic Electrical Engineering, Programming for Problem Solving, Engineering Graphics etc.
- VI. **“Head of Institution”** means the Principal of the College.
- VII. **“Head of the Department (HoD)”** means the Head of the Department concerned.
- VIII. **“Chairperson”** means the Head of the Department concerned.
- IX. **“Controller of Examinations (CoE)”** means the authority of the College/ Institution who is responsible for all Examination related activities of the College.
- X. **“Director, Centre of Academic Courses”** means the authority of the college who is responsible for all academic activities for the implementation of relevant rules and regulations.

#### **2. ADMISSION ELIGIBILITY**

Candidates for admission to the B.E. / B.Tech. degree programme will be required to satisfy the conditions of admission thereto prescribed by the Anna University, Government of Tamil Nadu, AICTE and UGC.

##### **2.1 First Year Admission**

Candidates seeking admission to the first semester of the eight semesters B.E. / B.Tech. degree programmes should have passed the Higher Secondary Examination of (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

Candidates 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 Admission**

Candidates who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education and Training, Tamil Nadu or its equivalent are eligible to apply for the lateral entry admission to the third semester of B.E. / B.Tech. as per the rules fixed by Government of Tamil Nadu.

OR

The candidates who possess B.Sc. degree (10+2+3 stream) with mathematics as a subject at the B.Sc. level are eligible for admission to the third semester of the B.E. / B.Tech. degree programme through the lateral entry scheme. Such candidates shall undergo two additional Engineering subject(s) in the third and fourth semesters as prescribed by the Academic Council of the College.

- 2.3** Notwithstanding the qualifying examination the candidate might have passed, the candidate shall also appear for Tamil Nadu Engineering Admissions counseling conducted by DOTE, Chennai.
- 2.4** The candidate seeking admissions under the **management quota** should also have passed the qualifying examination as per clause 2.1 and are admitted based on the rank given by the Consortium of Self-Financing Professional, Arts and Science colleges in Tamil Nadu.
- 2.5** The eligibility criteria regarding marks shall pertain to the norm as prescribed by the State Government / Syndicate of the Anna University / AICTE / UGC from time to time.

## **3. PROGRAMMES OFFERED**

The following programmes and branches of study approved by Anna University, Chennai and All India Council for Technical Education, New Delhi is offered by the college.

S. No.	Programme	Branch Code	Branch
1.	B.E.	AU	Automobile Engineering
2.	B.E.	BM	Biomedical Engineering
3.	B.E.	CE	Civil Engineering
4.	B.E.	CD	Computer Science and Design
5.	B.E.	CS	Computer Science and Engineering
6.	B.E.	IO	Computer Science Engineering (IoT)
7.	B.E.	CB	Computer Science Engineering (Cyber Security)
8.	B.E.	EE	Electrical and Electronics Engineering
9.	B.E.	EC	Electronics and Communication Engineering
10.	B.E.	ME	Mechanical Engineering
11.	B.E.	SF	Safety and Fire Engineering
12.	B.Tech.	IT	Information Technology

#### 4. STRUCTURE OF PROGRAMMES

##### 4.1 Categorization of Courses

Every B.E. / B. Tech. Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

- (i) **Humanities, Social Sciences and Management Courses (HSMC)** includes Professional English, Communication skills etc.
- (ii) **Basic Sciences Courses (BSC)** include Mathematics, Physics, Chemistry, Biology, Environmental Science etc.
- (iii) **Engineering Sciences Courses (ESC)** include Engineering Practices, Engineering Graphics, Basics of Civil / Mechanical / Electrical / Electronics / Instrumentation, Computer Engineering, etc.
- (iv) **Professional Core Courses (PCC)** include the core courses relevant to the chosen specialization/branch.
- (v) **Professional Elective Courses (PEC)** include the elective courses relevant to the chosen specialization/ branch. Professional Elective Courses are offered under verticals (specialization groups)
- (vi) **Open Elective Courses (OEC)** are Multidisciplinary courses that include the courses from Humanities and other disciplines of Engineering and Technology. Students can

choose these courses from the list of Open Elective courses specified in the respective curriculum. Students may also choose courses from other disciplines from Swayam/NPTEL platform, including non-engineering courses.

- (vii) **Employability Enhancement Courses (EEC)** include Project Work, Internship, Career Development Skills, Seminar, Professional Practices, Case Study, and Industrial/Practical Training etc.
- (viii) **Mandatory courses (MC)** include students to induction training programme and courses such as Indian traditional knowledge, Constitution of India, Environmental Sciences etc.

#### 4.2 **Personality and Character Development**

All students shall enroll, on admission, in any one of the personality and character development programmes (NCC/NSS/NSO/YRC) and undergo training / conduct activities for about 80 hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and training in first-aid. Alternately, activities of science, literature and arts also help for personality and character development. So, students shall conduct and participate actively in Technical or Non-Technical Club activities for 80 hours and participate in at least ONE event.

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

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

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

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

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

**Technical clubs** provide a platform for students to learn and enhance their technical skills through hands-on projects, workshops, and practical experience. These clubs encourage creative problem-solving and innovation by working on projects or participating in competitions that challenge students to think outside the box.

**Non-technical clubs** enrich the personal, social, and cultural aspects of students' lives. Clubs focus on arts, music, dance, literature etc.

No fee shall be charged for all these activities.

#### 4.3 **Mandatory Three-Week Induction Programme**

- The students are expected to undergo a mandatory three-week induction programme comprising of physical activity, creative arts, universal human values, proficiency modules, lectures by eminent people, visits to local areas and familiarization to department/branch immediately after admission.
- List of students who have successfully completed the Induction Programme shall be certified by the Head of the Institution.

- The completion of the Induction Programme shall be printed in the Grade Sheet as “COMPLETED”.
- In the case of students who have got admitted later and those who have not attended the Induction Programme at the time of joining the degree programme, it shall be conducted later and on completion, it shall be recorded in the grade sheet.
- No fee will be charged towards the conduct of the Induction Programme and for including in the STATEMENT OF GRADES for the Induction Programme.

#### 4.4 Number of Courses per Semester

Each semester curriculum shall normally have a blend of lecture courses not exceeding 7 Theory courses and Laboratory integrated theory courses and 5 Employability Enhancement Course(s) and Laboratory courses. However, the total number of courses per semester shall not exceed 10 excluding mandatory Courses. Each Course shall have credits assigned as per clause 4.5.

#### 4.5 Credit Assignment

Each course is assigned certain number of credits based on the details provided in Table 1.

**Table 1: Credit Assignment**

Contact period per week	Credits
1 Lecture Period	1
1 Tutorial Period	1
1 Laboratory Period (Also for EEC courses like Seminar / Project Work etc.)	0.5
2 weeks summer industrial Training / Internship	1

#### 4.6 Industrial Visit

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

#### 4.7 Industrial Training/ Internship

- 4.7.1** The students may undergo Industrial training for a period as specified in the Curriculum during the summer / winter vacation. In this case, the training has to be undergone continuously for a period of at least two weeks in an organization.
- 4.7.2** The students may undergo Internship at a Research organization / University/ Industry (after due approval from the Head of the Institution) for the period prescribed in the curriculum during the summer / winter vacation, in lieu of Industrial training. Attendance Certificate



mentioning the period of Industrial Training / Internship and signed by the competent authority of the industry shall be submitted to the Head of the Department. The attendance certificate shall be forwarded to the CoE, by the Head of the Department for processing results.

**Table 2: Training period and assigned credits**

<b>Duration of Training /Internship</b>	<b>Credits</b>
2 Weeks**	1
4 Weeks	2
6 Weeks	3

**\*\*1 week = 40 Internship Hours**

#### **4.8 Semester Long Project Work / Industrial Project / Internship**

- **In the final semester** students shall undertake a semester long project work in their own discipline to obtain hands-on experience.
- Project work may be assigned to a single student or to a group of students, not exceeding 4 per group with a guide from the same department. However, if the project is of interdisciplinary nature, then students from different programmes are permitted to form a group and the guide can be from another department also.
- Students are permitted to undertake a semester long industrial project or semester long internship in an industry / research organization in lieu of the final semester project work, provided the domain of such projects or internships come under the same discipline and the industry has no objection in submitting the work carried out as a report. This industrial project or internship is apart from the summer industrial training or summer internship, if any.
- If the outcome of the project work is the development of a finished product, then it may lead to a start-up activity.
- The students have to submit a project report or internship report or start-up report on or before the last working day of the semester and the assessment of the same is detailed in clause 11.4.2

#### **4.9 One / Two Credit Courses**

The students may optionally undergo Industry Oriented One / Two Credit Courses with the duration of 15 hours / 30 hours shall be offered by the experts from the industry on recent topics. The details of the course shall be recommended by the Board of Studies (BoS) and approved by Head of the Institution through Centre for Academic Courses. Students can earn a maximum of **SIX CREDITS** through one / two credit courses during the entire duration of the Programme. If the student earns three credits in Industry Oriented Courses, the student may drop one **Professional Elective**. Otherwise, credits earned by the students will be indicated in the semester

grade sheet as well as in the consolidated grade sheet as additional credits. In such case, these additional credits will not be considered for GPA/CGPA calculations.

#### **4.10 Self Study Courses**

Students can opt for self study courses from the **fifth semester onwards**. Students shall be permitted to register for one self study course under a faculty mentor provided that they do not have any standing arrears and should have completed all the dropped courses with a CGPA of 7.5 and above. The students who opt for dropping of courses are not permitted to pursue self study courses in that particular semester.

#### **4.11 Value Added Courses**

Students shall be allowed to take a Value-Added Course offered by a department with the approval from their respective BoS and Academic Council. The credits earned through the Value-Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. One / Two credit courses shall be offered by the Department with the prior approval from the Board of Studies. Students can take a maximum of three credits either by one credit and/or two credit courses during the entire duration of the Programme. The students are also allowed to take the Value-Added Courses offered in other departments with the permission of the Head of the Department offering the course.

#### **4.12 Off Campus Courses and Transfer of Credits**

Students are permitted to optionally enroll and study a maximum of three off campus courses in physical/online/hybrid mode under each UG programme with the approval of respective BoS and Academic Council as per the Regulations. The successful completion of these courses through any of the following modes shall be considered in lieu of professional elective / open elective courses of curriculum as approved by the Head of the Institution through Centre for Academic Courses.

**4.12.1** Students are permitted to optionally enroll and study these courses through SWAYAM / NPTEL platforms and credit transfer is to be done based on the marks and certificate provided by the NPTEL. The number of credits and transfer of credits are based on the procedure explained in Table 3 and the Mapping of the marks with the grades is explained in Table 4. The mapping of marks with grades is applicable, only if the student passes the course as per the guidelines of NPTEL.

**Table 3: Duration of the course and Number of credits**

<b>S. No.</b>	<b>No. of Weeks</b>	<b>No. of Credits</b>
1.	4	1
2.	8	2
3.	12	3
4.	16	4

**Table 4: Mapping of Marks scored in NPTEL course and Credits earned**

<b>Letter Grade</b>	<b>Marks</b>
O	90-100
A+	80-89
A	70-79
B+	60-69
B	50-59
C	40-49

**4.12.2** Students are permitted to optionally enroll and study the courses in physical / hybrid / online modes offered by reputed Central / State funded Universities / Institutions which are in the top 20 positions in the latest NIRF ranking and also conducting examination towards award of marks and grades. (NIRF Ranking of any of the last three years with respect to the year in which course is to be registered; NIRF ranking is based on respective stream for professional elective courses and based on any stream for open elective courses).

Students are also permitted to enroll and undergo such courses in Online mode at universities abroad in top 500 in QS ranking in the last three years.

Students are also permitted to study courses of a particular semester in a University / Institution abroad based on MoU. A learning agreement shall be evolved to map all the courses offered in the programme and the courses offered in university abroad as per the procedure outlined by the Centre for Academic Courses. The credits earned by the students in the University abroad shall be transferred as per the learning agreement.

In the case of 4.12.2, the students can enroll for the courses with the approval of the Head of the institution only if the course is offered directly by Institution / University and not with the edutech platforms.

The marks / credits earned by the student shall be transferred based on the decision of a committee constituted by Centre for Academic Courses and approved by the Head of the Institution. Finally, it has to be approved by the respective BoS and Academic Council.

**4.12.3** Students are also permitted to enroll and study the courses in physical/hybrid mode (not less than 50% in physical mode) / online mode that are offered by (i) National/State funded research institutions/laboratories and (ii) (a) reputed companies (manufacturing or software) related to the programme, and (b) reputed companies involved in transfer of knowledge provided the knowledge transferring company is a spinoff from an Engineering/Technology practicing Industry and sharing the work experience of the respective industry. The companies mentioned in 4.12.3 (ii) (a) and the company with which the knowledge transfer company associated in the case of 4.12.3 (ii) (b) should have average annual turnover of more than 200 crores over a

period of 5 years. However, the academic content and delivery shall be in consonance with the University academic standards and norms.

The minimum qualification of the course instructor from the company as mentioned in 4.12.3. (ii) shall be B.E./B.Tech with 10 years of research / industrial experience. Such courses shall be offered through MOU / MOA between Institute and such institutions/organizations/ companies. The design of the courses with regard to the syllabus content, duration of each course and number of credits offered for each course shall be discussed and recommended by the respective BoS and Academic Council as per the Regulations.

For the offer of each course under 4.12.3, a course coordinator shall be nominated from the Department who shall also attend such course and shall coordinate the question paper setting and answer script evaluation with the course instructor from research institution / laboratories / industry / company for the continuous assessment and end semester examination conducted by the Institution. The passing requirements are as per regulations.

#### **4.13 Mandatory Courses**

The student shall study Mandatory courses prescribed by the College and it will be mentioned in the Grade Sheet. However, it will not be considered for computation of CGPA.

#### **4.14 NCC Certificate Courses**

NCC students are motivated to complete NCC B certificate course as open elective during their period of study. Students can earn three credits by completing NCC B certificate. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations by the Head of the Department through Centre for Academic Courses.

The marks and grades secured by students in NCC B certificate exams shall be given grades as shown in Table

**Table AWARD OF EQUIVALENT LETTER GRADES FOR NCC B CERTIFICATE**

<b>Percentage of Total Marks in NCC Certification</b>	<b>Letter Grade</b>	<b>Grade Point</b>
81 to 100	O	10
76 to 80	A+	9
71 to 75	A	8
65 to 70	B+	7
61 to 64	B	6
51 to 60	C	5
Less than 50	U	0
Absent	AB	-
Shortage of Attendance in a course	SA	-

#### **4.15 B.E. / B. Tech. (Hons.) and B.E. / B. Tech. Minor with specialisation in another discipline.**

##### **(i) B.E./B.Tech. (Hons.)**

- a. The students should have taken additional courses from a specified group of Professional Electives (vertical) or from any of the verticals of the same programme and earned a minimum of 18 credits.
- b. Should have passed all the courses prescribed in the curriculum and additional courses in the first attempt.
- c. Should have earned a minimum of 7.50 CGPA taking into account of all the courses prescribed in the curriculum and additional courses.

##### **(ii) B.E./B.Tech. Minor with specialisation in another discipline**

The student should have earned additionally a minimum of 18 credits in any one of the verticals offered from Engineering Disciplines / Science and Humanities / Management

1. For these 18 credits students can optionally enroll and study a maximum of 6 credits in online mode from SWAYAM-NPTEL platform (in addition to the three online courses permitted for courses of curriculum), as approved by the Head of the Institution through Centre for Academic Courses.
2. B.E / B.Tech. (Hons.) and B.E./B.Tech. minor with specialisation in another discipline will be optional for students and the students shall be permitted to select any one of them only.
3. For the categories 4.15 (i), the students, including Lateral Entry, shall be permitted to register for the courses from Semester V onwards provided the students have earned a minimum CGPA of 7.50 until Semester III and have cleared all the courses in the first attempt.
4. For the category 4.15 (ii), the students, including Lateral Entry, will be permitted to register the courses from Semester V onwards provided the marks earned by the students until Semester III is CGPA 7.50 and above.
5. B.E/B.Tech. (Hons.) or B.E./ B.Tech. Minor shall be offered by the Department irrespective of the number of students enrolled.
6. If a student decides not to opt for Honours, after completing certain number of additional courses, such additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum.

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

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

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

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

If the student has studied more number of such courses than the number of open electives required as per the curriculum, the courses with higher grades shall be considered for calculation of CGPA. Remaining courses shall be printed in the grade sheet; however, they will not be considered for calculation of CGPA and the same shall be indicated in a foot note appropriately.

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

The student has to enroll for these additional courses separately and pay a tuition fee for studying these six additional courses and pay additional exam fee.

#### **4.16 Medium of Institution**

The medium of instruction is English for all courses, examinations, Seminar presentations and Project Work reports. The medium of instruction is either Tamil or English for the courses related to Tamil.

### **5. DURATION OF THE PROGRAMME**

- 5.1** A student is normally expected to complete the B.E. / B.Tech. Programme in 4 years (**8 semesters**) for **HSC students** and 3 years (6 semesters) for lateral entry students but in any case, not more than 7 years (14 Semesters) for HSC students and 6 years (12 semesters) for lateral entry students.
- 5.2** Each semester shall normally consist of 90 working days (including examination days). The Head of the department shall ensure that every faculty imparts instruction as per the number of periods specified in the syllabus and that the faculty teaches the full content of the specified syllabus for the course being taught.
- 5.3** The Head of the department may conduct additional classes for improvement, special coaching, conduct of model test etc., over and above the specified periods. But for the purpose of calculation of attendance requirement for writing the end semester examinations (as per clause 6) by the students, following method shall be used.

$$\text{Percentage of Attendance} = \frac{A}{B} \times 100$$

A -Total no. of periods attended in all the courses per semester

B - (No. of periods / week as prescribed in the curriculum taken together for all courses of the semester)  $\times 15$

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

- 5.4** The total period for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study (vide clause 17) in order that he/she may be eligible for the award of the degree (vide clause 15).
- 5.5** All the above will subject to change from time to time based on the norms of the Affiliated University (Anna University, Chennai).

## **6. COURSE REGISTRATION**

- 6.1** The institution is responsible for registering the courses that each student is proposing to undergo in the ensuing semester. Each student on admission shall register for **all the courses prescribed in the curriculum** in the student's **first Semester of study**. 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 6.2)). The courses dropped in earlier semesters can be registered in the subsequent semesters when offered.

The registration details of the student shall be approved by the Head of the department and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations.

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

- i. Courses of the current semester.
- ii. Courses dropped in the lower semesters and

The maximum number of credits that can be registered in a semester is 36. However, this does not include the number of Re-appearance (RA) and Withdrawal (WD) courses registered by the student for the appearance of Examination.

### **6.2 Flexibility to Drop courses**

- 6.2.1** 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.
- 6.2.2** From the second to final semesters, the student has the option of dropping existing courses in a semester during registration. Total number of credits of such courses shall not exceed 6 per semester. The student is permitted to drop the course(s) within 30 days of the commencement of the academic schedule.

**6.2.3** From the V to VIII semesters, the student has the option of registering for additional courses in a semester. With regard to enrolling for B.E. / B. Tech. (Hons) or B.E. / B. Tech. Minor

**6.2.4** The total number of credits that a student can add in a semester is limited to 6, subject to a maximum of 2 courses. Maximum number of credits enrolled in a semester (Honours and Minor) shall not exceed 36. The online courses registered for B.E. / B. Tech. (Hons.) and B.E. / B. Tech. minor shall be over and above these 36 credits.

### **6.3 Choice of Professional Elective Courses**

The professional Elective Courses are listed in the curriculum in Table format as verticals (Specialization groups). A student can choose all the Professional Elective Courses either from one of the verticals or a combination of courses from all verticals in a semester. For a professional elective course and open elective course, minimum number of students enrolment permitted shall be 10. However, the minimum number is not applicable for students enrolling B.E. / B. Tech. (Hons) and B.E. / B. Tech. Minor. For the offer of each professional elective at least two choices shall be offered.

## **7. ATTENDANCE REQUIREMENTS FOR COMPLETION OF THE SEMESTER**

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

Ideally every student is expected to attend all classes of all the courses and secure 100% attendance. However, in order to give provision for certain unavoidable reasons such as medical / participation in sports, the student is expected to attend at least 75% of the classes. Therefore, he/she shall **secure not less than 75%** (after rounding off to the highest nearest integer) of overall attendance as calculated as per clause 5.3.

**7.2** However, a student who **secures overall attendance between 65% and 74%** in the 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 attested by the Head of the department. The same shall be forwarded to the Controller of Examinations for record purposes.

**7.3** Students **who secure less than 65% overall attendance** shall not be permitted to write the End Semester Examination at the end of the semester and not permitted to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed.

## **8. MENTOR**

To help the students in planning their courses of study and for general advice on the academic programme, the Head of the Department of the students will attach a certain number of students to a faculty of the Department, who shall function as Mentor for those students throughout their



period of study. The Mentor shall advise the students in registering and reappearance (Arrear) registering of 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 students concerned. The number of students assigned to a mentor will be decided by the Head of the Department. However, it shall not exceed 20 per mentor.

The responsibilities of the mentor shall be:

- To inform the interpretation of Regulations to the students and their rights and duties.
- To inform code of conduct to be maintained in the campus and disciplinary actions.
- To inform the students about the various facilities and activities available to enhance the student's curricular and co-curricular activities.
- To guide student enrollment and registration of the courses.
- To monitor the academic and general performance of the students including attendance and to counsel them accordingly.
- To collect and maintain the academic and co-curricular records of the students.
- To facilitate and collect students' feedback about the course and course instructor, and the course and programme's exit survey.

## **9. COURSE COMMITTEES**

### **9.1 Common Course Committee**

A theory course handled by more than one faculty shall have a "Common Course Committee" comprising of all faculty members teaching that course with one of them nominated as the course coordinator. The nomination of the course coordinator shall be made by the Head of the Department/ Centre for Academic Courses depending upon whether all the faculty members teaching the common course belong to a single department or to several departments. The committee shall be constituted by the Director, Centre for Academic Courses within 10 days from the commencement of the semester.

The first meeting of the Common Course Committee shall be held within fifteen days from the commencement of classes. The lesson plan, books and references to be followed shall be decided at the first meeting. Two or three subsequent meetings in a semester may be held at suitable intervals. In addition, the "Common Course Committee" shall meet to ensure uniform evaluation of continuous assessments after arriving at a common scheme of evaluation for the assessments (vide clause 11). Wherever feasible, the common course committee shall prepare a common question paper for the continuous assessment tests also.

## 9.2 Class Committee

Every class shall have a class committee consisting of faculty members of the class concerned, 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:

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

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

The class committee shall be constituted within the first week of each semester. At least 4 student representatives (usually 2 boys and 2 girls) shall be included in the class committee, covering all the elective courses. The chairperson of the class committee may invite the class mentor(s) and the Head of the Department to the class committee meeting. The Head of the Institution may participate in any class committee meeting of the institution. The chairperson is required to prepare the minutes of every meeting, submit the same to the Head of the Institution through Centre for Academic Courses within two days of the meeting and arrange to circulate it among the students and faculty members 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.

The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. **The Class Committee Chairperson shall display the cumulative attendance particulars of each student on the Notice Board at the end of every such meeting to enable the students to know their attendance details to satisfy the clause 6 of this Regulation.** During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

## 10. SYSTEM OF EXAMINATION

**10.1** All B.E./B.Tech. programmes consist of Theory Courses, Theory courses with laboratory component, Laboratory Courses, Mandatory Courses and Employability Enhancement Courses. Employability Enhancement Courses include Mini Project, Project Work, and Industrial/Practical Training. Appearance in End Semester Examination is mandatory for all courses except the courses evaluated only by 100% continuous assessment.

**10.2** Performance in each course of study shall be evaluated based on (i) Continuous Assessments throughout the semester and (ii) End Semester Examination at the end of the semester. The evaluation shall be based on Outcome Based Education (OBE) and the relevant rubrics shall be followed. The weightage for the continuous assessment and end semester examination is given in the table below.

Each course shall be evaluated for a maximum of 100 marks as shown in Table 5.

**Table 5 Weightage of Marks for Continuous Assessment and End-Semester Examination**

S. No.	Category of the Course	Continuous Assessments	End-Semester Examinations
1.	Theory Courses	40 Marks	60 Marks
2.	Theory Courses with Laboratory	50 Marks	50 Marks
3.	Laboratory Courses	60 Marks	40 Marks
4.	Mini Project / Project Work	60 Marks	40 Marks
5.	Mandatory Courses / Internship	100 Marks	--
6.	All other EEC Courses	60 Marks	40 Marks

- 10.3** Every faculty is required to maintain an ‘ATTENDANCE AND ASSESSMENT RECORD’ for every semester, which consists of attendance marked in each Theory / Laboratory/EEC class, the assessment marks and the record of class work (topics covered), separately for each course handled by the faculty. The attendance book completed in all respects should be submitted to Centre for Academic Courses through the Head of the Department periodically (at least three times in a semester) for checking the syllabus coverage and the records of assessment marks and attendance. At the end of the semester, the record should be verified by the Head of the Department who shall keep this document in safe custody (for five years). The records of attendance and assessment of both current and previous semesters should be available for auditing.
- 10.4** The End Semester Examination (theory and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semesters and between April and June during the even semesters.

## **11. ASSESSMENT PROCEDURES FOR AWARDING MARKS**

For all theory, laboratory courses, theory courses with laboratory component and project work the continuous assessment shall be awarded as per the procedure given below:

### **11.1 Assessment for Theory Courses**

For Theory Courses out of 100 marks, the maximum marks for continuous assessment are fixed as 40 and the end semester examination carries 60 marks.

Two internal assessments will be conducted as a part of continuous assessment. Each internal assessment is to be conducted for 100 marks and will have to be distributed in two parts viz., Assignment/Quiz/Case study/Seminar/Mini project/ App Development/any other Experiential Learning and Test with each having a weightage of 40% and 60% respectively. The tests shall be in written mode. The total internal assessment marks of 200 shall be converted into a maximum of 40 marks and rounded to the highest nearest integer.

**Table 6 Scheme of Assessment for Theory Course**

<b>Internal Assessment I (100 Marks)</b>		<b>Internal Assessment II (100 Marks)</b>		<b>Total</b>
Assignment / Quiz / Case study / Seminar / Mini project / /any other Experiential Learning**	Written test (100 marks)	Assignment / Quiz / Case study / Seminar / Mini project / /any other Experiential Learning**	Written test (100 marks)	<b>Continuous Assessment</b>
40%	60%	40%	60%	<b>200*</b>

\*The weighted average shall be converted into 40 marks for internal assessment.

\*\* Continuous assessment component will be decided by the course instructor who has the liability to go for any mode of continuous assessment suitable to the course. However, the assessment mode should be decided before the commencement of course in the semester as approved by the Head of the department concerned.

In case a student is unable to attend an assessment due to medical reasons (such as hospitalization, an accident, or a specific illness) or due to participation in college, university, state, national, or international level sports or events, they must provide the necessary documentation to be eligible for a reassessment. Only one reassessment will be allowed, which may be scheduled at the end of the semester. Approval for the reassessment must be obtained from the Head of the Department through the concerned course instructor.

### 11.2 Assessment for Theory Courses with Laboratory Component

Weightage of continuous assessment and end semester examination marks will be 50% each. The distribution of marks for the theory and laboratory components in the continuous assessments and end semester examination for different types of courses are provided in the table 7.

**Table 7: Weightage of Marks for Continuous Assessment**

L	T	P	C	Continuous Assessment Theory (Total 25%)		Continuous Assessment Laboratory (Total 25%)	End Semester Examination (50%)
				Test 1	Test 2		
1	0	2	2	Test 1	Test 2	Experiment and Midterm Test	Laboratory only (50%)
1	0	4	3	Test 1	Test 2	Experiment and Midterm Test	Laboratory only (50%)
2	0	2	3	Test 1	Test 2	Experiment and Midterm Test	Theory only (50%)
3	0	2	4	Test 1	Test 2	Experiment and Midterm Test	Theory only (50%)
2	0	4	4	Test 1	Test 2	Experiment and Midterm Test	Theory (25%) and Laboratory (25%)
3	0	4	5	Test 1	Test 2	Experiment and Midterm Test	Theory (25%) and Laboratory (25%)

\* Test 1 and Test 2 for theory are written tests.

The procedure for the conduct of internal assessments for laboratory component is as per the clause 11.3. The weighted average shall be converted into 50 marks for Continuous Assessment.

### 11.3 Assessment for Laboratory Courses

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

The maximum marks for Continuous Assessment shall be 60 marks in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records to be maintained. There shall be at least one midterm test. The criterion for arriving at the Continuous Assessment marks of 60 is as follows: For successful completion of all the prescribed experiments done in the Laboratory 75% of marks shall be awarded and 25% marks shall be awarded for the model test, as shown in Table 8. The total marks earned by the student in continuous assessments shall be converted into a maximum of 60 marks and rounded to the highest nearest integer. The end semester examination shall be for 40 marks and shall include Viva-Voce also as a part of it.

**Table 8 Weightage of Marks for Continuous Assessment**

<b>Continuous Assessment (100 Marks) *</b>	
Evaluation of laboratory observation, Record	Model Test
<b>75%</b>	<b>25%</b>

\* Total percentage of Continuous assessment marks shall be converted into 60 marks.

### 11.4 Assessment for Project Work

For Project work out of 100 marks, the maximum marks for Continuous Assessment is fixed as 60 and the End Semester Examination (project report evaluation and viva-voce examination) carries 40 marks.

#### 11.4.1 Project work at the Institution

The student shall register for Project Work-I in pre-final semester and Project Work-II in final semester. Project work may be allotted to a single student or to a group of students not exceeding 4 per group. The student(s) shall submit the project report on or before the last working day of the semester. The End Semester Examination for the project work shall consist of the evaluation of the final project report submitted by the student or students of the project group evaluated by an examiners and supervisor, followed by a viva-voce examination conducted separately for each student by a committee consisting of the two examiners (other than supervisor). The project coordinator shall be the internal examiner. The Controller of the Examinations will appoint the Examiners for the End Semester Examinations of the Project Work.

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 Department shall constitute a review committee for each programme. There shall be a minimum of three members in the review committee. The committee shall consist of the supervisor, expert member from the department and a project co-ordinator from another department. If the project coordinator/ expert member happens to be the supervisor, then an alternate member shall be nominated. The total marks obtained in the three Reviews shall be reduced to 60 marks and rounded to the highest nearest integer.

The continuous assessment and End Semester Examinations marks for Project Work and the Viva-Voce Examination shall be distributed as indicated in Table 9.

**Table 9 Continuous Assessment and End-Semester Examinations Marks for Project Work**

Continuous Assessment (60 Marks)			End Semester Examinations (40 Marks)			
Review I	Review II	Review III	Project Report		Viva-Voce Examination	
10	20	30	Supervisor	External	Internal	External
			10	10	10	10

In the case of industrial projects, the marks allotted for supervisor will be shared equally by the supervisor from the Department and coordinator/Supervisor from company.

The project report shall carry a maximum of 20 marks. The project report shall be submitted as per the approved guidelines. Same marks shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 20 marks. Marks awarded to each student of the project group is based on the individual performance in the viva- voce examination.

#### **11.4.2 Assessment of Semester long industrial project / internship**

The Viva-Voce examination for semester long industrial project or internship shall be based on the report submitted by the student with regard to the work carried out in the industrial project or internship. The students have to produce attendance certificate at the time of reviews. The report shall be certified by mentor from industry, supervisor and HoD.

Projects/internship undertaken externally should have an internal guide and an external guide. Both guides are expected to interact regularly monitoring the progress of the student. For the reviews the external guide should be present at least in online mode to assess and award marks to the student. In the beginning of the project, the internal guide should ensure that the work to be carried out is up to the standard as well as not attracting any IPR issues with the external organization so that the work could be published. The reviews may be conducted in online mode, if the student cannot travel to Institute to attend the reviews and this shall be approved by HoD and such reviews have to be recorded. However, the end semester examination has to be conducted in physical mode with the mentor from company present physically or through online.

In the final report, the bonafide certificate shall be signed by both the guides mandatorily. However, if any difficulty is encountered in fulfilling this norm, then the HoD can initiate remedial action and complete the evaluation requirement with justification and approval of the Centre for Academic Courses for the same. The Bonafide certificate of the project report shall have the date of viva voce examination and the signatures of the internal and external guides.

If the project report or report of industrial project or internship is not submitted on or before the specified deadline, an extension of time up to a maximum limit of 30 days may be given for the submission of report by paying additional fee to conduct separate Viva-Voce examination with due approval obtained from the Head of the Department. If the report is not submitted even beyond the extended time, then the student(s) is deemed to have failed in the Project Work. The failed student(s) shall reappear for the same in the subsequent semester.

For the case where the outcome of the project work carried out by the student(s) is a product and whose concept is tested and validated, then it shall be considered in lieu of the project work. Such students shall submit a start-up report, which includes the concepts and process flow of the developed product, publications and patents, if any. The evaluation of the start-up report is as per the clause 11.4.1.

### 11.5 Assessment for Internship

The internship shall carry 100 marks and shall be evaluated through **Continuous Assessment Examination** as per the Table. At the end of the internship, the student shall submit a certificate from the organization where the student has undergone training and a brief report about the training. The evaluation will be made based on this report, presentation and a Viva-Voce Examination conducted by a three-member Departmental Committee constituted by the Head of the Department consisting of one coordinator and two faculty members. Certificates (issued by the Organization) submitted by the student shall be attached to the mark list and sent to the Controller of Examinations by the Head of the Department. The evaluation shall be carried out as per the procedure shown in Table 10.

**Table 10: Assessment for Internship**

<b>Evaluation Marks (100)</b>			
<b>Report</b>	<b>Presentation</b>	<b>Viva-Voce</b>	<b>Total Marks</b>
40	30	30	100

### 11.6 Assessment for Value Added Course

The value-added course shall carry 100 marks and shall be evaluated through **continuous assessments only**. One Assessment shall be conducted at the end of the course by the



Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the highest nearest integer. The Head of the Department may identify a faculty member as coordinator for the course. A committee consisting of faculty member handling the course, coordinator and a senior faculty member nominated by the Head of the Department shall monitor the evaluation process. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations by the Head of the Department.

### 11.7 Assessment for Mini Project

For Mini Project work out of 100 marks, the maximum marks for Continuous Assessment are fixed as 60 and the End Semester Examination (project report evaluation and viva-voce examination) carries 40 marks.

There shall be **two assessments** (each 100 marks) during the semester by a review committee. The reviews are to be evaluated by a three-member committee constituted by the HoD which includes the supervisor, coordinator and an expert from the Department. At the end of the semester the student shall submit a brief report on the Mini Project.

The continuous assessment and End Semester Examinations marks for the Mini Project and shall be distributed as indicated in Table 11. The project report shall carry a maximum of 20 marks. The project report shall be submitted as per the approved guidelines. Same marks shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 20 marks. Marks awarded to each student of the project group are based on the individual performance in the viva- voce examination.

**Table 11: Assessment for Mini Project**

Continuous Assessment (60 Marks)		End Semester Examinations (40 Marks)			
Review I	Review II	Mini Project Report		Viva-Voce Examination	
30	30	Supervisor	External	Internal	External
		10	10	10	10

### 11.8 Assessment for other Employability Enhancement Courses

Employability Enhancement Courses shall carry 100 marks, the maximum marks for continuous assessment are 60 and the End Semester Examination carries 40 marks. Two Assessments shall be conducted during the semester by the either by the department concerned or conducted commonly to all departments. The total marks obtained in the tests shall be reduced to 60 marks and rounded to the highest nearest integer. The Head of the Department may identify a faculty member as coordinator for the course. A committee consisting of faculty member handling the course, coordinator and a senior faculty member nominated by the Head of the Department shall monitor the evaluation process. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations.

### **11.9 Assessment for One / Two Credit Courses**

Industry oriented One / Two credit courses shall carry 100 marks and shall be evaluated through **continuous assessments** only. Two assessments shall be conducted by the department concerned / Industry Experts. Total marks obtained in two assessments shall be reduced to 100 marks and reduced to the highest nearest integer. A committee consisting of the Head of the Department, coordinator of the course and a senior faculty member nominated by the Head of the Institution shall monitor the evaluation process. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations by the Head of the Department through Centre for Academic Courses.

### **11.10 Assessment for Self Study Courses**

Faculty members approved by the Head of the Department shall be responsible for periodic monitoring and evaluation of the course. Students shall write assignments / tutorials and appear for continuous assessment and end semester examinations to earn the credit. Students shall meet the faculty mentor once in a week. The evaluation methodology shall be the same as that of a theory course. The list of students undertaking the self study courses shall be approved by the Head of the Institution through Centre for Academic Courses.

### **11.11 Assessment for Mandatory Courses**

The student shall study Mandatory courses prescribed by the College. No credits shall be given for mandatory courses and shall be evaluated through continuous assessment tests only for a maximum of 100 marks each. However, it will not be considered for computation of CGPA. Upon the successful completion, these courses will be listed in the semester grade sheet and in the consolidated grade sheet with the grade “SC” (Successfully Completed). Assessment will not be conducted for Yoga for Stress Management Course.

### **11.12 Displaying Internal Marks**

Internal marks approved by the Head of the Institution through Centre for Academic Courses shall be displayed by the respective HoDs within 5 days from the last working day.

### **11.13 Conduct of Academic Audit**

Every department shall strive for a better performance of the students by conducting the continuous assessments as mentioned in Clause 11 and that is followed by the end semester examination, as the case may be.

The Head of the Department shall arrange to conduct the Academic Audit once in every year for all the courses conducted in the respective semesters through external expert(s) approved by the Chairperson of Faculty.

- In order to ensure the above, Academic Audit is to be done for every course taught during the semester.

- For the continuous assessments conducted for each course (as per details provided in Clause 11), the academic records shall be maintained for the activity-based evaluation and assessment test question paper and answer script. Report of industrial training / internship shall also be maintained, if applicable. For laboratory courses the students' record and course coordinator's system of evaluation shall be maintained. Further, the attendance of all students shall be maintained as a record.
- The academic audit shall include verification of all the academic records pertaining to the Regulation in-force, the attendance and assessment record, CO, PO attainment records, student's and course coordinators feedback of the courses, and the overall teaching-learning process based on Bloom's taxonomy. Action shall be taken by HoD based on audit report for continuous improvement. Academic documents of UG degree programmes should be available with the department/faculty for 5 years.

## **12. REQUIREMENTS FOR APPEARING FOR END SEMESTER EXAMINATIONS**

A student shall normally be permitted to appear for the End Semester Examinations for all the courses registered in the current semester (vide clause 6) if he/she has satisfied the semester completion requirements (as per clause 7).

Further, examination registration by a student is mandatory for all the courses in the current semester and all arrear(s) course(s) for the End Semester examinations failing which, the student will not be permitted to move to the higher semester.

A student who has already appeared for any course in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades.

## **13. PASSING REQUIREMENTS**

**13.1** A candidate who secures not less than 50% of total marks prescribed for the courses (Continuous Assessment + End semester examination) with a minimum of 45% of the marks prescribed for the end-semester Examination in theory, theory with practical components (45% individually in theory and laboratory) and practical courses (including Project work), shall be declared to have passed in the Examination.

**13.2** If a student fails to secure a pass in a theory course / theory with laboratory/laboratory course (except electives), the student shall register and appear only for the end semester examination in the subsequent semester. In such case, the continuous assessment marks obtained by the candidate in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secure a pass. However, from the third attempt (current semester's end semester examination is considered as the first attempt) onwards if a candidate fails to obtain pass marks (CA + End Semester Examination) as per clause 14.1, then the candidate shall be declared to have passed the examination if he/she secure a minimum of 50% marks prescribed for the end semester examinations alone.

- 13.3** If the course, in which the student has failed, is a Professional Elective or an Open Elective course, the student may be permitted to complete the same course. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secures a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (IA + End Semester Examination) as per clause 14.1, then the candidate shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the end semester examinations alone.
- 13.4** If any other Professional Elective or Open Elective course is opted by the student, the previous registration is cancelled and henceforth it is to be considered as a new Professional Elective or Open Elective course. The student has to register and attend the classes, earn the continuous assessment marks, fulfill the attendance requirements as per clause 7 and appear for the end semester examination.
- 13.5** If a student has submitted the project report but absent in the end semester examination of project work, the student is deemed to be failed. In this case and also if a student attends and fails in the End semester examination of Project work of B.E. / B. Tech, he/she shall attend end semester examination again within 60 days from the date of declaration of the results. The subsequent viva-voce examination will be considered as reappearance with payment of exam fee. In case, the student fails in the subsequent viva-voce examination also, the student shall redo the course again, when offered next.
- 13.6** The passing requirement for the courses which are assessed only through continuous assessment shall be fixed as minimum 50%.
- 13.7** A student can apply for revaluation of the student's semester examination answer paper in a theory course, as per the guidelines of the CoE on payment of a prescribed fee along with prescribed application to the CoE through the Head of the Department. The CoE will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the department. Revaluation is not permitted for laboratory course and EEC courses.

**14. AWARD OF LETTER GRADES**

The award of letter grades will be decided using relative grading principle except Laboratory Courses and Project Work. The performance of a student will be reported using letter grades, each carrying certain points as shown in Table 12.

**Table 12 Award of Letter Grades**

<b>Letter Grade</b>	<b>Grade Points*</b>
O (Outstanding)	<b>10</b>
A + (Excellent)	<b>9</b>
A (Very Good)	<b>8</b>
B + (Good)	<b>7</b>

B (Average)	6
C (Satisfactory)	5
U (Re-appearance)	0
SA (Shortage of Attendance)	0
WD (Withdrawal)	0

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

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

‘WD’ indicates withdrawal from the course.

#### 14.1 Relative Grading

For those students who have passed the course (theory course/ theory integrated courses / all other EEC except laboratory course / Project Work Courses), the relative grading shall be done. The marks of those students who have passed only shall be inputted in the software developed for relative grading. 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.

#### 14.2 Absolute Grading

In all the courses, if the number of students who have passed the course is less than or equal to 30 then absolute grading shall be followed with the grade range as specified in the Table 13.

For the Project Work / Internship and Laboratory Courses, absolute grading procedure shall be followed as given in the Table below irrespective of the number of students who have passed the course.

**Table 13 Grade range for absolute grading**

O	A+	A	B+	B	C	U
91 - 100	81 - 90	71 - 80	61 - 70	56 - 60	50 – 55	< 50

#### 14.3 GRADE SHEET

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

- The college in which the student has studied.
- The list of courses of curriculum registered during the semester and the grades scored.

- List of courses studied for Hons., minor and any other additional courses in which the student has passed with the grades under the title additional courses
- The Grade Point Average (GPA) for the semester considering only the courses of curriculum (not the additional courses) and
- The Cumulative Grade Point Average (CGPA) of all courses registered from first semester onwards considering only the courses of curriculum (not the additional courses). However, for the students who have successfully completed the requirements of B.E. / B. Tech. (Hons) and B.E. / B.Tech. Minor vide Clause 4.15, grades scored in the six additional courses shall be taken into account for the computation of CGPA.

During each semester, the list of curricular courses (not the additional courses) registered and the grades scored in each course are used to compute the Grade Point Average (GPA). GPA is the ratio of the sum of the products of the number of credits of curricular courses (not the additional courses) registered and the grade points corresponding to the grades scored in those courses, taken for all the courses, to the sum of the number of credits of all the courses in the semester.

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

Where  $C_i$  - is the number of Credits assigned to the course

$\text{GP}_i$  - is the point corresponding to the letter grade obtained for each course

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

CGPA will be calculated in a similar manner, considering all the curricular courses (not the additional courses) enrolled from first semester. “U” and “SA” grades will be excluded for calculating GPA and CGPA.

- 14.4** If a student study a greater number of professional and open electives than required as per the student’s programme curriculum, (if the student decides not to opt for Hons. and Minor), the calculation of final CGPA shall be as per 4.15.6 and 4.15.7.
- 14.5** If a student successfully completes all the requirements of the programme and also meets the requirements of B.E. / B. Tech. (Hons) or B.E. / B. Tech. Minor but desires not to opt for the additional qualification, then he/she has to submit a declaration with regard to the same 30 days before the completion of semester VIII.
- 14.6** In the consolidated grade sheet, the CGPA earned shall be converted into percentage of marks as follows:

$$\text{Percentage of Marks} = \text{CGPA} \times 10.$$

**14.7** For the Co-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS) / NSO / YRC / Technical Club / Non-Technical Club, a “completed” remark will appear in the Grade Sheet on successful completion of the same. Every student shall put in a minimum of 75% attendance in the training and attend the camp or events of the clubs compulsorily. The training and camp or club events shall be completed during the first year of the programme. However, for valid reasons, the Head of the Institution may permit a student to complete this requirement in the second year. **For the award of degree, a statement of ‘SATISFACTORY’ shall be earned by the student in the above co-curricular activities.**

**14.8** The grades O, A+, A, B+, B, C obtained for the **Value-Added Courses, Industry Oriented Courses and Online courses** (not the part of curriculum) shall figure in the Grade Sheet. The courses for which the grades obtained are RA, SA will not figure in the Grade Sheet.

## **15. ELIGIBILITY FOR THE AWARD OF THE DEGREE**

### **15.1 Eligibility**

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

1. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student’s programme within the stipulated time.
2. Successfully completed the course requirements, appeared for the End - Semester examinations and passed all the subjects within the period as prescribed in all the 8 semesters within a maximum period of 7 years reckoned from the commencement of the first semester to which the candidate was admitted.
3. Successfully passed any additional courses prescribed by the Academic Council whenever the student is readmitted under Regulations R-2024 from the earlier regulations.
4. Successfully completed the NCC / NSS / NSO / YRC / Technical Clubs / Non-Technical Clubs requirements.
5. No disciplinary action pending against the student.
6. The award of Degree must have been approved by the Syndicate of the University.

### **15.2 Classification of the Degree Awarded**

#### **15.2.1 First Class with Distinction**

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

- Should have passed the examination of all the courses of all the eight semesters (**Six Semesters for Lateral Entry**) in the student’s first appearance within five years (**Four years for Lateral Entry**), which includes authorized break of study of one year. Withdrawal from examination (vide Clause 16) will not be considered as an

appearance.

- Should have secured a CGPA of not less than 8.50.
- Should not have been prevented from writing end semester examination in any of the courses of the Curriculum making up the total credit requirement.
- A student who satisfies norms given in clause 4.15 becomes eligible for classification of the degree with B.E./B.Tech. (Hons) and B.E./B.Tech. minor. Details are provided in Table 14.

**Table14: Classification for the award of the B.E/ B. Tech. degree in First class with Distinction**

Degree (i)	Duration of Programme (ii)	Duration permitted (iii)	Additional credits above the requirements of curriculum (iv)	CGPA (v)	Pass in (vi)	Break of Study (vii)	Prevention due to lack of attendance	Withdrawal from writing end semester examination (viii)
B.E/ B.Tech. (Regular)	4 years	5 years	-	8.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E/ B.Tech. Lateral Entry	3 years	4 years	-	8.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E/ B.Tech. (Honours) <b>Specialisation</b> in the same discipline	3/4 years (Lateral entry, Regular)	4/5 years (Lateral entry, Regular)	18 credits from anyone vertical of the same programme	8.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E/ B.Tech. (Honours)	3/4 years (Lateral entry, Regular)	4/5 years (Lateral entry, Regular)	18 credits from more than one vertical of the same programme	8.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E/ B.Tech. minor in another Specialisation	3/4 years (Lateral entry, Regular)	4/5 years (Lateral entry, Regular)	18 credits from anyone vertical of the other programme	8.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt

### 15.2.2 First Class

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

- Should have passed the examination of all the courses of all eight semesters (Six Semester



for Lateral Entry) within five years (within Four years for Lateral Entry), 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).

- Should have secured a CGPA of not less than 6.50.
- A student who satisfies norms given in clause 4.15 becomes eligible for classification of the degree with B.E./B.Tech. (Honours) and B.E./B.Tech. minor. Details are provided in Table 15.

**Table 15 Classification for the award of the B.E/ B. Tech. degree with First class**

<b>Degree (i)</b>	<b>Duration of Programme (ii)</b>	<b>Duration permitted (iii)</b>	<b>Additional credits (iv)</b>	<b>CGPA (v)</b>	<b>Pass in (vi)</b>	<b>Break of study (vii)</b>	<b>Prevention due to lack of attendance</b>	<b>Withdrawal from writing end semester examination (viii)</b>
B.E/ B.Tech. (Regular)	4 years	5 years	-	6.50	-	One year authorised break of study included in the Duration permitted (iii)	Included in the Duration permitted (iii)	-
B.E/ B.Tech. Lateral Entry	3 years	4 years	-	6.50	-	One year authorised break of study included in the Duration permitted (iii)	Included in the Duration permitted (iii)	-
B.E/ B.Tech. (Honours) <b>Specialisation</b> in the same discipline	3/4 years (Lateral entry, Regular)	4/5 years (Lateral entry, Regular)	18 credits from any one vertical of the same program me	7.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E/ B.Tech. (Honours)	3/4 years (Lateral entry, Regular)	4/5 years (Lateral entry, Regular)	18 credits from more than one vertical of the same program me	7.50	First attempt	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E/ B.Tech. minor in another Specialisation	3/4 years (Lateral entry, Regular)	4/5 years (Lateral entry, Regular)	18 credits from any one vertical of the other program me	6.50	-	One year authorised break of study included in the Duration permitted (iii)	Included in the Duration permitted (iii)	-

### **15.2.3 Second Class**

B.E./ B.Tech. Regular and lateral entry and B.E./ B.Tech. minor in other specialisation degree students (not covered in clauses 15.2.1 and 15.2.2) who qualify for the award of the degree (vide Clause 15.1) shall be declared to have passed the examination in **Second Class**.

**15.2.4** A student who is absent in the End Semester Examination in a course / project work after having registered for the same shall be considered to have appeared in that examination (except approved withdrawal from end semester examinations as per clause 16) for the purpose of classification.

**15.2.5** Student earned additional 18 credits as per clause 4.15 1(i) and (ii) but does not satisfy the conditions mentioned in 15.2.1 or 15.2.2 shall not be awarded B.E/B.Tech. (Hons.). In such case if the student becomes eligible for First Class, while computing CGPA with the Professional Elective / Open Elective courses with higher grades the student shall be awarded B.E. / B.Tech. in First Class only.

**15.3** 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 for the purpose of classification. (Subject to clause 16).

### **15.4 Photocopy / Revaluation**

A student can apply for photocopy of his/her semester examination answer paper in a theory course, as per the guidelines of the CoE, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Department. The answer script is to be valued and justified by a faculty member, who has handled the subject and recommend for revaluation with the breakup of marks for each question. Based on the recommendation, the student 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 student concerned through the Head of the Institution. Revaluation is not permitted for practical courses and EEC courses. A student can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

## **16. PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION**

**16.1** A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by the Chairman, Sports Board and the 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. However, for sports activities, a student can be granted permission to withdraw from appearing for the end semester examination in more than one semester with approval from the Chairman, Sports Board and the

HoD. The application shall be sent to the CoE through the Head of the department with required documents.

- 16.2** Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 7) and if it is made within TEN working days before/after the commencement of the end semester examination in that course or courses and also recommended by the Head of the Department and approved by the Controller of Examinations. For a student to withdraw from a course / course, he/she should have registered for the course, fulfilled the attendance requirements (vide clause 7) and earned continuous assessment marks. Notwithstanding the requirement of mandatory 10 days, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 16.3** In case of withdrawal from a course / course, the courses will figure both in the Grade Sheet as well as in the Result Sheet. However, withdrawal shall not be considered as an appearance for the eligibility of a student for First Class with Distinction.
- 16.4** If a student withdraws from writing end semester examinations for a course or courses, he/she shall register for the same in the subsequent semester and write the end semester examination(s). Withdrawal shall not be considered as an appearance for deciding the eligibility of a student for First Class with Distinction.
- 16.5** If a student applies for withdrawal from Project Work, he/she will be permitted for the withdrawal only after the submission of project report before the deadline. However, the student may appear for the viva voce examination within 30/60 days after the declaration of results for Project Work Phase-I and Project Work Phase-II respectively and the same shall not be considered as reappearance.
- 16.6** Withdrawal is permitted for the end semester examinations in the final semester, as per clause 15.2.1.

## **17. BREAK OF STUDY FROM A PROGRAMME**

- 17.1** A student is permitted to go on break of study for a fixed period of one year as a single break in the entire course of study.
- 17.2** When a student applies for break of study, the student shall apply to the Head of the Institution not later than the last date of the first assessment period. The application (downloaded from website) duly filled by the student shall be submitted through the Head of the Department.
- 17.3** Notwithstanding the requirement of mandatory first assessment period, applications for break of study for special cases viz., prolonged hospitalization, accidents will be considered on the merit of the case. The student shall apply to the Head of the Institution through the Head of the Department.

- 17.4** The student permitted to re-join 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 re-joining. The students rejoining in new Regulations shall apply to the Centre for Academic Courses in the prescribed format through the Head of the Department at the beginning of the readmitted semester itself for prescribing additional/equivalent courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.
- 17.5** Total number of credits to be earned by the student shall be more than or equal to the total number of credits prescribed in the curriculum in force. If the credit assigned for L T P of the courses are not same in two Regulations under consideration, then equivalence shall be arrived as per the credit assignment followed in the Regulations in force.
- 17.6** 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.
- 17.7** In case there is any period of break of study more than the permitted duration of break of study, the student shall be permitted to continue the programme only if the approval is obtained from the Head of the Institution through Centre for Academic Courses and the concerned HoD before the end of the semester in which the student has taken break of study.
- 17.8** If a student has not reported to the department for a period of two consecutive semesters without any intimation, the name of the student shall be deleted permanently from the college enrollment. Such students are not entitled to seek readmission under any circumstances.
- 17.9** If a student in Full Time mode wants to take up job / start-up / entrepreneurship during the period of study he/she shall apply for authorised break of study for one year. The candidate shall take up the assignment only after getting approval of the same by the Head of the Institution through Centre for Academic Courses and the concerned HoD with due proof to that effect.
- 17.10** If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 17.1).
- 17.11** If a student in Full Time mode wants to take up a job / start-up / entrepreneurship during the period of study he/she shall apply for authorized break of study for one year. The student shall join the job / start-up / entrepreneurship only after getting approval of the same by the Head of the Institution with due proof to that effect.
- 17.12** No fee is applicable to students during the Break of Study period.

**18. DISCIPLINE**

**18.1** Every student is required to observe discipline 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 the Institution shall constitute a disciplinary committee consisting of Head of the Institution, Head of the department to which the student concerned belongs, and the Head of another department to enquire into acts of indiscipline and report to the Head of the Institution.

**18.2** If a student indulges in malpractice in any of the end semester examination, he / she shall be liable for punitive action as prescribed by the College from time to time.

**19. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI**

The Institution may from time-to-time revise, amend or change the Regulations, curriculum, syllabus and scheme of examinations through the Head of the Institution with the approval of the Academic Council.

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