

THE KAVERY ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai,
Accredited by NAAC with "A+" and Recognized by UGC (2f & 12B)
Mecheri, Mettur Tk, Salem Dt-636453.

B.E./B.Tech. Programmes Regulations 2024 Version 1.0



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THE KAVERY ENGINEERING COLLEGE
REGULATIONS 2024
CHOICE BASED CREDIT SYSTEM
COMMON TO B.E./B.TECH PROGRAMMES

PREAMBLE

The Kavery Engineering College is one of the tributaries of The Kavery Educational Institutions. True to its name, it is a perennial source of scientific and technical knowledge like the river Cauvery. The Kavery Engineering College was established in the year 2006 with the approval of the All India Council for Technical Education, New Delhi, Affiliated to Anna University, Accredited by NAAC with A+ in the year 2023 and Recognized by UGC (2f&12B). The college is conferred with autonomous status for all the programmes from the academic year 2024-2025. The college offers Ten UG courses in Engineering & Technology with a sanctioned intake of 720. Six PG courses in Engineering, MBA & MCA with a sanctioned intake of 228, put together with an overall intake of 948. The college has been very active in participating at all levels of technological togetherness. The Kavery Engineering college, in its 18 years of existence has attained a reputation as being one of the best institutions in the State of Tamil Nadu in providing education to the rural youth. Located on the Mettur Bangalore highway, the institution spreads over a sprawling 30 acre campus with a beautiful landscape, lush green lawns, aesthetic architecture. Offering essential services that enhance societal living conditions and maintain the environment, the college provides an ideal setting for higher learning. The infrastructure in our institution replicates the economic, health, social, environmental, and cultural standards of our country. We are concerned about the needs of the nation as well as of the world to be met with the help of technology that is tuned to revamp at the root level education not only the monetary status but also the social as well as the spiritual necessity.

VISION AND MISSION

Vision

To emerge into a frontline Institution of professional learning by inculcating quality standards in Technical Education, high pattern of discipline and leadership qualities to meet the global standards.

Mission

We dedicate and commit ourselves to achieve, sustain and foster unmatched excellence in Technical Education through global standards to flourish the domain of Engineering and nurture talents needed for the students to develop themselves with ethical values to the Challenging Technology for the betterment of the nation.

OBJECTIVE

The University Grants Commission(UGC), recommends that universities and other institutions of higher education need to carry out academic reforms. UGC, has taken a number of new reforms in the higher education. The reforms that are to be carried out in the arena of the Semester based system includes introduction of the Choice Based Credit System(CBCS), examination reforms including continuous internal assessment and grading system, among others.

The Choice Based Credit System provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill based courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Therefore, it is necessary to introduce uniform grading system in the entire higher education in India. This will benefit the students to move across institutions within India to begin with and across countries. The uniform grading system will also enable potential employers in assessing the performance of the candidates. In order to bring uniformity in evaluation system, computation of the Cumulative Grade Point Average (CGPA) is based on student's performance in examinations.

The Choice-Based Credit System will not only offer opportunities and avenues to students for learning core subjects but also exploring additional avenues of learning for holistic development of an individual. The Choice Based Credit System has been reviewed and implemented in The Kavery Engineering College.

1. DEFINITIONS AND NOMENCLATURE

The nomenclatures used in this regulation are detailed below:

- I. **"University"** means ANNA UNIVERSITY, Chennai.
- II. **"College"** means THE KAVERY ENGINEERING COLLEGE.
- III. **"Programme"** means Bachelor of Engineering (B.E)/Bachelor of Technology (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 / Theory cum Practical / Practical course that is normally studied in a semester like Mathematics, Physics etc.
- VI. **"Credit"** means a numerical value allocated to each course to describe the candidate's workload required per week.
- VII. **"Grade"** means the letter grade assigned to each course based on the marks range specified.
- VIII. **"Grade point"** means a numerical value (0 to 10) allocated based on the grade assigned to each course.

- IX. **“Head of the Institution”** means Principal of the college
- X. **“Chairperson /BOS”** means Head of the Department concerned.
- XI. **“Head of the Department (HOD)”** means Head of the Department concerned.
- XII. **“Controller of Examinations (COE)”** means authorized person who is responsible for all examination related activities of the College

2. PROGRAMMES OFFERED

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

B. E. Programmes

1. Bio Medical Engineering.
2. Civil Engineering.
3. Computer Science & Engineering.
4. Electrical & Electronics Engineering.
5. Electronics & Communication Engineering.
6. Mechanical Engineering.

B. Tech Programmes

1. Agricultural Engineering.
2. Artificial Intelligence and Data Science
3. Chemical Engineering
4. Information Technology

3. ADMISSION

The Candidate, seeking admission to B.E./B.Tech. Programme, shall satisfy the conditions of admission prescribed by the Directorate of Technical Education and Anna University, Chennai as given below.

3.1 Regular admission

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

Should have passed the Higher Secondary Examinations 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)

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

3.2 Lateral entry admission

The candidates who possess the 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. as per the rules fixed by the Directorate of Technical Education from time to time.

(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. as per the rules fixed by the Directorate of Technical Education. Such candidates should undergo two additional Engineering subject(s) in the third and fourth semesters as prescribed by the College.

4. STRUCTURE OF PROGRAMMES**4.1 Categorization of Courses**

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

- i. **Humanities, Social Sciences and Management Courses (HSMC)** includes Professional English, Communication skills, Heritage of Tamils, Tamil & Technology, 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)** include the courses offered by a branch to other branches, which a student can opt from the list specified in the respective curriculum of the B.E. / B. Tech. Programmes.
- vii. **Employability Enhancement Courses (EEC)** include Project Work, Internship, Seminar, Professional Practices, Online courses and Value Added Courses, Case Study and Industrial/Practical Training etc.

- viii. **Mandatory courses (MC)** expose the students to induction training programme, Indian traditional knowledge, Constitution of India and Environmental Sciences. Registration for these courses is mandatory for all the students.
- ix. **Employability Enhancement Skill Based Courses**
Skill based experiential learning courses will be offered in two categories as purely Laboratory Based Courses and Theory Integrated Laboratory Courses.

4.2 Personality and Character Development

All students shall enroll, on admission, in any one of the personality and character development programmes NSS/UBA/YRC/Sports & games and undergo training / conduct / participate activities.

National Service Scheme (NSS) / Unnat Bharat Abhiyan (UBA)/YRC will have social service activities in and around the College.

Sports & Games: Physical Education Department will have Sports, Games, Drills and Physical exercises.

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.

Blood Donation: Enrolling the names of the donors in social medial and also displayed in the college website.

Technical club houses will have activities related to technical happenings around the world, which includes conducting various interactive workshops and hands on fun teaching sessions.

Cultural Club houses will have activities related to Literary and Fine Arts.

Students who enroll and take active participation in anyone of the above activities and participate at least one event/programme will be given a certificate by the Head of the Department and the copy of the same shall be forwarded to the Controller of Examinations for the purpose of record and scrutiny.

4.3 Induction Programme

Induction Programme is mandatory for the students pursuing the Undergraduate Programme. 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 successful completion of 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 4 Employability Enhancement Course(s) and Laboratory Courses. However, the total number of courses per semester shall not exceed 10. 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 following

Table 1: Contact periods per week and Number of credits

Sl. No	Contact periods per week	Credit
1.	1 Lecture period / 1 Tutorial period	1
2.	2 Project periods (Laboratory / Seminar/ Project work/ Case study/ etc..)	1

4.6 Industrial Training/ Internship

4.6.1 The students may undergo Industrial training for a period as specified in the Curriculum during 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.

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, as per the format provided by Placement Director shall be submitted to the Head of the Institution. The attendance certificate shall be forwarded to the COE, by the Head of the Institution for processing results.

4.6.2 If Industrial Training/ Internship is not prescribed in the curriculum, the student may undergo Industrial Training/ Internship optionally and the credits earned will be indicated in the Grade Sheet. If the student earns three credits in Industrial Training/ Internship, the student may drop one Professional Elective (only one professional elective can be dropped). In such cases, Industrial Training / Internship need to be undergone continuously from one organization or with a combination one two week and one four week from one/two organizations. However, if the number of credits earned is 1 or 2, then these credits shall not be considered for classification of the degree. Students shall get permission from the Head of the Institution for taking Industrial Training/Internship and the Certificate of completion of Industrial Training / Internship shall be forwarded to the COE.

Table 2: Duration of the training and Number of credits

DURATION OF TRAINING/ INTERNSHIP	CREDITS
2 Weeks*	1
4 Weeks	2
6 Weeks	3

*1 Week = 40 Internship Hours

4.7 Industrial Visit/ Field visit

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

4.8 Value Added Courses

- Students may optionally undergo Value Added Courses and the credits earned through the Value Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. Courses with two/ three credits shall be offered by a Department of an institution with the prior approval from the Head of the Institution.
- The details of the syllabus, timetable and faculty may be sent to the Head of the Institution after approval from the Head of the Department.
- Students shall be allowed to take these courses offered in other Departments also, but with the permission of the Head of the Department of the student and Head of the Department offering the course.

4.9 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 Head of the Institution 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.

4.9.1 Students are permitted to optionally enroll courses through SWAYAM - NPTEL platforms on prior approval from the Head of the Institution through the respective Head of the department. 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

No. of Weeks	No. of Credits
4	1
8	2
12	3
16	4

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

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

4.9.2 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 The Kavery Engineering College.

In the case of 4.9.2, 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 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 the Head of the Institution.

4.9.3 Students are also permitted to enroll and study the courses in physical/hybrid mode (not less than 50% in physical 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 3.9.3 (ii) (a) and the company with which the knowledge transfer company associated in the case of 3.9.3 (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 Institute academic standards and norms.

The minimum qualification of the course instructor from the company as mentioned in 4.9.3. (ii) shall be B.E./B.Tech with 10 years of research / industrial experience. Such courses shall be offered through MOU / MOA between The Kavery Engineering College 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 and approved by Head of the Institution as per the Regulations.

For the offer of each course under 4.9.3, 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 Institute. The passing requirements are as per regulations.

4.10 Mandatory courses

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

4.11 B.E. / B. Tech.(Hons) and B.E./B.Tech. Minor with specialization 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 the 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 specialization 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.

- a. 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 Board of Studies within 4½ years.
- b. B.E / B.Tech. (Hons.) and B.E./B.Tech. minor with specialization in another discipline will be optional for students and the students shall be permitted to select any one of them only.

- c. For the categories 4.11 (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.
- d. For the category 4.11 (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
- e. B.E/B.Tech. (Hons.) or B.E./B.Tech. Minor shall be offered by the Department irrespective of the number of students enrolled.
- f. 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.

- g. 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.

- h. 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.
For the students who have joined the programme in the year 2020 are also permitted to register for B.E./B.Tech. Hons. and minor with the condition that the student should have earned 7.50 CGPA till V semester. For Hons. the student should have passed all the courses in the first attempt. The student should complete the additional 18 credits within 4 ½ years.

4.12 Medium of Instruction

The medium of instruction is English for all courses, examinations, seminar presentations and project reports except for language courses other than English.

4.13 Employability Enhancement Skill Based Courses

Skill based experiential learning courses will be offered in two categories as purely Laboratory Based Courses and Theory Integrated Laboratory Courses with the following credits. one such course will be offered in every semester from V to VII.

Table5: Category of courses and credits earned

Category	L	T	P	C
Laboratory Courses	0	0	4	2
	0	0	2	1
Theory integrated Laboratory Course	1	0	2	2

A student may accumulate upto 6 credits through such courses and such credits will be considered in lieu of the Professional Elective and/ or Open Elective courses.

These courses may be offered with the support of the identified firms/companies and with one course coordinator per course and a mentor from the firm.

4.13.1 Evaluation Procedure:

The evaluation of the above mentioned courses are fully internal and shall be jointly done by the course coordinator from the institution and the mentor from the firm.

- If the course involves certification from an identified firm/company, then 20% of the total marks will be included in the internal assessment marks, 30% will be included from the marks provided by the firm and 50% shall be evaluated by the respective Course Coordinators of the college by conducting appropriate theory and / or laboratory tests.
- If there is no certification from the firm/company, then 50% will be included from the marks provided by the firm and 50% shall be evaluated by the respective Course Coordinators of the college by conducting appropriate theory and / or laboratory tests.

4.13.2 Procedure to drop Professional Elective/Open Elective course(s) and computation of Grade point

A student may accumulate up to 6 credits through such courses, and such credits will be considered in lieu of the Professional Elective and/or Open Elective courses. In this regard, a student is permitted to drop either 1 or 2 Professional Elective /Open Elective course(s) as per the procedure given in Table 6.

Table 6: Procedure to drop Professional Elective/Open Elective course(s)

No. of courses	Total No. of credits earned	Courses to be printed in grade sheet	No. of Professional elective / Open elective can be dropped	No. of credits considered for GPA/CGPA calculation
1	2	1	-	-
2	4	2	1	3
3	6	3	2	6

- The credits earned by the student of the successfully completed Skill Based Courses shall be recorded in the grade sheet.
- If a student has not successfully completed the skill based courses during the semesters V, VI and VII, then the same shall not be recorded in the grade sheet.
- If a student earns 2 credits in Semester V and then enrolls for another 2 credits in Semester VI, then he / she is permitted to drop one Professional elective/ open elective course in Semester VI. Further, if the student earns 4 credits upto Semester VI and enrolls for another 2 credits in Semester VII, then he/she is permitted to drop an additional professional elective/open elective course in the VII semester.
- If the student has enrolled for skill based courses but has not successfully earned 4 or 6 credits and also dropped 1 or 2 PE/OE courses in anticipation of pass, then he/she has to enroll the PE/OE (as the case may be) to meet the total credit requirements to earn the degree.

4.13.3 Method for computation of Grade point of dropped PE/OE courses

The method of Computation of Grade point for the dropped PE/OE courses is given below:

- If a student has successfully completed two Skill Based Courses, then the computation of Grade point for one PE/OE course dropped in lieu of those two skill based courses is as follows.

Grade point = $(2 \text{ credits} \times \text{higher grade point obtained} + 1 \text{ credit} \times \text{lower grade point obtained}) / 3 \text{ credits}$.

For example, for two courses of two credits each, if the grades obtained are,
Course 1 – C grade – 5 points

Course 2 – O grade – 10 points

Then, the grade point of the dropped course for the calculation of CGPA is obtained as : $(1 \times 5 + 2 \times 10) / 3 = 8.33$.

One PEC/OEC course shall be dropped for 3 credits with grade point computed as above.

- ii. If a student has successfully completed three Skill Based Courses, then the computation of Grade point for dropping two PEC/OEC in lieu of those three skill based courses is as follows.

For three courses of two credit each

Computation of Grade point of each of the two dropped PE/OE courses for the calculation of CGPA = Average grade point of three skill based courses.

Two PEC/OEC courses shall be dropped of 3 credits each, with grade point computed as above.

5. DURATION OF THE PROGRAMME

- 5.1 A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (for HSC students) and six semesters (for Lateral Entry students) but in any case not more than 14 Semesters for HSC (or equivalent) students and not more than 12 semesters for Lateral Entry students.
- 5.2 Each semester shall normally consist of 75 working days or 540 periods of 55 minutes including continuous assessment test duration. The Head of the Institution shall ensure that every faculty member imparts instruction as per the number of periods specified in the syllabus and that the faculty member teaches the full content of the specified syllabus for the courses being taught. The Head of the Institution may arrange for the conduct of additional classes for improvement, special coaching, conduct of model test etc., over and above the specified periods. Calculation of attendance requirement for writing the end semester examinations by the students, following methods shall be used.

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

- 5.3 The total period for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study (vide clause 20) in order that he/she may be eligible for the award of the degree (vide clause 18)

6. COURSE REGISTRATION

6.1 Registration of Courses

- 6.1.1 Registration for the end semester examination is mandatory for courses in the current semester as well as for the arrear courses failing which the candidate will not be permitted to move on to the higher semester. This will not be applicable for the courses which do not have an end semester examination.

6.1.2 It is the responsibility of each student 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 Head of the Institution and forwarded to the Controller of Examinations. This registration is for undergoing the courses 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
- iii. Courses for Open Electives / Professional Electives
- iv. Online Courses (Prior approval is needed)
- v. Courses for Honours / Minor Vertical (if opted)

6.1.3 The maximum number of credits that can be registered in a semester is 36. However, this does not include the number of Re-Appearance (U) and Withdrawal (WD) courses registered by the student for the appearance of Examination. The Class Advisor and Head of the Department have to offer necessary guidance and ensure that all the students have properly registered for the required classes in a given semester.

6.2 Flexibility to add or 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. However, it is permitted to earn more than the total credits if the student wishes.

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 adding 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 academic schedule.

6.2.3 From V to VIII semester 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

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 (Specialisation 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. However, students irrespective of enrolling for additional courses for B.E. / B. Tech. (Hons.) are not permitted to choose more than one course from a row. Students are permitted to enroll more than one elective course from the same vertical in a semester. In the subsequent semesters students are permitted to enroll one more course in

a row, provided if he/she has cleared the earlier course of the same row. 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% of overall attendance as calculated as per clause 5.2.
- 7.2 However, a student who secures overall attendance between above 65% and less than 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 required certificates attested by the Head of the Institution. 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 Final 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. CLASS ADVISOR & MENTOR

There shall be a class advisor for each class and separate mentors for a small group of students. The class advisor and mentors will be appointed by the HOD of the department concerned. The responsibilities for the class advisor/Mentors shall be:

- To act as the channel of communication between the HOD and the students of the respective class and parents
- To collect and maintain various statistical details of students.
- To help the chairperson of the class committee in planning and conduct of the class committee meetings.
- To monitor the academic performance of the students including attendance and to inform the class committee.
- To attend to the student's welfare activities like awards, medals, scholarships and industrial visits.
- To attend the grievance of the students.

9. CLASS COMMITTEE

9.1 Every class shall have a class committee consisting of teachers 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.
- 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 improving the performance of the students.
- Identifying the slow-learners, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such students.

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

9.3 The class committee shall be constituted within the first week of each semester.

9.4 At least 6 student representatives (usually 3 boys and 3 girls of each one from advanced, average, and slow learners) shall be included in the class committee, covering all the elective courses.

9.5 The chairperson of the class committee may invite the class advisor(s) and the Head of the Department to the class committee meeting.

9.6 The Head of the Institution may participate in any class committee meeting of the department.

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

- 9.8 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 possibly after internal assessments. 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 7 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 to improve the effectiveness of the teaching-learning process.

10. COURSE COMMITTEE FOR COMMON COURSES

Each common theory course offered to more than one discipline or group, shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as the course coordinator. The nomination of the course coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The

"Course Committee" shall meet 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 test(s).

11. EXAMINATION AND ASSESSMENT

Performance in each course of study shall be evaluated based on (i) continuous internal assessment throughout the semester and (ii) examination at the end of the semester.

Continuous Assessment Marks: The formative assessments are the Continuous Assessment Marks which assesses the students' learning during the course of study. This includes Continuous Assessment Tests which may be paper/pencil based, computer based, report submission and Viva voce. The other forms of assessments can be quiz, problem solving, cases, reports, presentations, simulations etc.

End of semester Exam: These are the Summative Assessment occur at the end of the semester and assess whether students have achieved the intended learning outcomes. The forms of exams may be paper/pencil based, computer based or through project report & viva voce. In some courses it may be through presentations and other oral assessment methods.

Course Learning Outcomes: Articulate what a student does that demonstrates progress towards learning goals.

- 11.1 Each course, both theory and practical (including project work & viva voce examinations) shall be evaluated for a maximum of 100 marks.

Table 7 Scheme for assessment

Sl. No	Category of the course	Continuous assessment marks	End semester examination marks
1	Theory	40	60
2	Theory cum practical	50	50
3	Practical	60	40
4	Project Work	60	40
5	All other EEC courses	100	-
6	One / Two credit Course	Based on course	

11.2 The End of 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.

11.3 The End of semester examination for Project Work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, internal examiner, and the supervisor of the project group.

11.4 For the End of semester examination of practical courses including Project Work, the internal and external examiners shall be appointed by the Controller of Examinations.

12. PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

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:

12.1 THEORY COURSES

Table 8: Procedure of awarding Internal Assessment for Theory Courses

Assessment I (100Marks)		Assessment II (100Marks)		Total
Individual Assignment / Case Study/ Seminar / Mini Project	Written Test	Individual Assignment/ Case Study / Seminar/ Mini Project	Written Test	Internal Assessment
40	60	40	60	200*

*The weighted average shall be converted into 40 marks for Internal Assessment.

12.2 LABORATORY COURSES

Table 9: Procedure of awarding Internal Assessment for Practical Courses

Internal Assessment (100Marks)*	
Evaluation of Laboratory Observation, Record	Model Test
75	25

*Internal assessment marks shall be converted into 60 marks

12.3 THEORY COURSES WITH LABORATORY COMPONENT / LABORATORY CORSES WITH THEORY COMPONENT

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.

Table 10: Scheme for Theory and Lab Assessment

L	T	P	C	Internal Assessment 1	Internal Assessment 2	End Semester Examination
1	0	4	3	Lab (25%)	Theory (25%)	Lab only (50%)
1	0	2	2	Lab (25%)	Theory (25%)	Lab only (50%)
2	0	2	3	Theory (25%)	Lab (25%)	Theory (25%) Lab (25%)
3	0	2	4	Theory (25%)	Lab (25%)	Theory (35%) Lab (15%)
2	0	4	4	Theory (25%)	Laboratory (25%)	Theory (15%) Lab(35%)

The procedure for the conduct of internal assessments for theory and laboratory components shall be as per the clause 12.1 and 12.2 respectively.

*The weighted average shall be converted into 50 marks for internal Assessment.

12.4 PROJECT WORK/ INTERNSHIP

The student shall register for Project Work 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 is also permitted to undergo a semester long internship in an industry /academic/ research institution.

12.4.1 Project Work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing PG degree / Ph.D. degree.

12.4.2 The Project Work carried out in industry/academic/research institutions, in such cases, the Project Work shall be jointly supervised by a supervisor of the department and an expert as a joint supervisor from the organization and the student shall be instructed to meet the supervisor periodically and to attend the review committee meetings for evaluating the progress. The review meetings, if necessary, may also be arranged in online mode with prior approval from the Head of the department and suitable record of the meetings shall be maintained.

12.4.3 The Head of the institution shall constitute a review committee for Project Work for each programme. The review committee consists of supervisor, an expert from the Department and a project coordinator from the Department. If the project coordinator/expert member happens to be the supervisor, then an alternate member shall be nominated. In the case of Industrial Project/Internship, the review committee shall have the supervisor, the coordinator from industry and the project coordinator from the Department.

There shall be three reviews during the semester by the review committee. The student shall make presentation on the progress made by him/her before the committee. The total marks obtained in the three reviews shall be reduced for 60 marks and rounded to the nearest integer (as per the scheme given in 12.4.4).

12.4.4 The project report shall carry a maximum of 10 marks. The project report shall be submitted as per the approved guidelines as given by the COE. Same marks shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 30 marks. Marks are awarded to each student of the project group is based on the individual performance in the viva- voce examination.

Table 11: Scheme for Project Assessment

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

12.4.5 The last date for submission of the project report is on the last working day of the semester. If a student fails to submit the project report on or before the specified deadline, it will be considered as fail in the Project Work and the student shall re-register for the same in the subsequent semester.

12.4.6 Students shall also undertake a start-up activity for the development of products as part of project work. If the outcome of a start-up is a fully developed 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 12.4.4

12.5 OTHER EMPLOYABILITY ENHANCEMENT COURSES

- (a) The Seminar / Case Study / Mini Project / Design Project course is to be considered as purely INTERNAL (with 100% internal marks only). Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee appointed by the Head of the Institution, consisting of the course coordinator and two experts from the Department, will evaluate the seminar and at the end of the semester, the marks shall be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper (40%), presentation (40%) and response to the questions asked during presentation (20%).
- (b) The Industrial / Practical Training, Summer Project, Internship, shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial/Practical Training/Internship/Summer Project, the student shall submit an attendance certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a viva-voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Institution consisting of the course coordinator and two experts from the Department. The certificates (issued by the organization) submitted by the students shall be attached to the mark list sent by the Head of the Institution to the Controller of Examinations.
- (c) For all the courses under Employability Enhancement Courses Category, except the Project Work, the evaluation shall be done with 100% internal marks and as per the procedure described in clause 12.5 (a) / (b).

12.6 ASSESSMENT FOR VALUE ADDED COURSES

The value added course shall carry 100 marks and shall be evaluated through continuous assessments only. Two Assessments shall be conducted during the semester by the Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior faculty member nominated by the Head of the Institution shall do the evaluation process. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End of semester Examinations. The grades earned by the students for Value Added Courses will be recorded in the Grade Sheet, however the same shall not be considered for the computation of CGPA.

12.7 INTERNAL MARKS

Internal marks approved by the Head of the Institution shall be displayed by the respective HODs within 5 days from the last working day.

12.8 ATTENDANCE RECORD

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD', which consists of attendance marked in each lecture or practical or project work class, 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). The University or any inspection team appointed by the University may verify the records of attendance and assessment of both current and previous semesters.

12.9 CONDUCT OF ACADEMIC AUDIT

This college will strive for a better performance of the students by conducting the internal assessments as mentioned in Clause 12.

In order to ensure the above, Academic Audit is to be done for every course taught during the semester. For the internal assessments conducted for each course as per details provided in Clause 12, the academic records shall be maintained in the form of documentation for the individual assignments / case study report / report of mini project submitted by each student and assessment test question paper and answer script. Report of industrial training / internship shall also be maintained, if applicable. For laboratory courses student's record shall be maintained. Further, the attendance of all students shall be maintained as a record.

The Head of the Institution shall arrange to conduct the Academic Audit for every course in a semester by forming the respective committees with an external course expert as one of the members drawn from a Technical institution of repute near the institute.

The University or any inspection team appointed by the University may verify the records of Academic Audit report of the courses of both current and previous semesters, as and when required.

13. REQUIREMENTS FOR APPEARING FOR SEMESTER EXAMINATION

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

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

14. PASSING REQUIREMENTS

- 14.1 A candidate who secures not less than 50% of total marks prescribed for the course (Internal Assessment + Final Examination) with a minimum 45% of the marks prescribed for the Final Examinations, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and practical courses (including project work).
- 14.2 If a student fails to secure a pass in any of the courses, the student shall register for the courses again, in the subsequent semester. 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 student secures a pass. However, from the third attempt onwards if a student fails to obtain pass marks (IA + End Semester Examination) as per clause 14.1, then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the end semester examinations alone.
- 14.3 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.
- 14.4 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.
- 14.5 The passing requirement for the courses which are assessed only through purely internal assessments (EEC courses except Project Work and laboratory), is 50% of the internal assessment (continuous assessment) marks only.

15. 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.

16. 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 Department. Candidates applying for Revaluation only are eligible to apply for Review.

17. AWARD OF LETTER GRADES

The award of letter grades will be decided based on 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, U grade shall be awarded as shown in the below Table. For those students who have passed the course, 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. For a given course, if the students' strength is greater than 30, the relative grading method shall be adopted. However, if the students' strength is less than or equal to 30 then the fixed grading shall be followed with the grade range as specified below.

Table 12: Grade range for absolute grading

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

The performance of a student shall be reported using letter grades, each carrying certain points as detailed below:

Table 13: Relative Grading- letter Grades

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-appearance)	0
SA (Shortage of attendance)	0
WD (Withdrawal)	0

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: “O”, “A+”, “A”, “B+”, “B”, “C”.

“SA” denotes shortage of attendance (overall) and hence prevented from writing the end semester Examinations. “SA” will appear only in the result sheet.

“U” denotes that the student has failed to pass in that course. “WD” denotes withdrawal from the exam for the particular course. The grades U and W will figure both in the Grade Sheet as well as in the Result Sheet. In both cases, the student has to appear for the End Semester Examinations.

If the grade U is given to Theory Courses/ Laboratory Courses it is not required to satisfy the attendance requirements, but has to appear for the end semester examination and fulfill the passing requirements to earn a pass in the respective courses. If the grade U is given to EEC (Employability Enhancement Course) (except Project Work), which are evaluated only through internal assessment, the student shall register for the course again in the subsequent semester, fulfill the passing requirements to earn pass in the course. However, attendance requirement need not be satisfied.

17.1 Relative Grading

For those students who have passed the course (theory course / laboratory integrated courses / 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. (theory course / laboratory integrated courses / theory integrated courses and all other EEC Courses). If the students’ strength is greater than 30, the relative grading method shall be adopted.

17.2 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.

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 14 – 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

17.3 For the Co-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS) / NSO / YRC / Science club / Literary Club/ Fine Arts 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 subsequent years.

Successful completion of any one of the above co-curricular activities is compulsory for the award of degree.

The grades O, A+, A, B+, B, C obtained for the one/two credit courses (not part of curriculum) under the title "Value Added Courses" and "internship/industrial training" shall figure in the Grade Sheet. For these courses if the grades obtained are RA, SA, it will not figure in the Grade Sheet.

For the students who complete the Mandatory Course satisfying attendance requirement, the title of the Mandatory Course will be mentioned in the Grade Sheet.

17.4 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.

- 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 4.10, 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. U grades will be excluded for calculating GPA and CGPA.

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

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 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. The CGPA is rounded off to two decimals.

17.4.1 If a student studies more number of professional and open electives than required as per the student's programme curriculum, the calculation of final CGPA shall be as per clause 4.11

17.4.2 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 VIII semester.

17.4.3 In the consolidated grade sheet the CGPA earned shall be converted into percentage of marks as follows:

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

18. ELIGIBILITY FOR THE AWARD OF DEGREE

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

- a) Successfully gained the required number of total credits as specified in the curriculum corresponding to the student'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 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) No disciplinary action pending against the student.

18.1 CLASSIFICATION OF THE DEGREE AWARDED

18.1.1 First Class with Distinction

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

- ❖ Should have passed the examination in all the courses of all the eight semesters and 6 semesters in the case of Lateral Entry in the student's First Appearance within five years and Four years in the case of Lateral Entry). Withdrawal from examination (vide Clause 19) will not be considered as an appearance.
- ❖ Should have secured a CGPA of not less than 8.50.
- ❖ One year authorized break of study (if availed of) is included in the five years and four years in the case of lateral entry for award of First class with Distinction.

Should not have been prevented from writing semester examination due to shortage of attendance in any semester.

A student who satisfies norms given in clause 4.11 becomes eligible for classification of the degree with B.E./B.Tech. (Hons) and B.E./B.Tech. minor.

Details are provided in Table.

Degree	Duration of Programme	Duration Permitted	Addition al credits above the requirem ent of curriculu m	CGPA	Pass	Break of study	Prevention to write end sem exam	Withdr awal from writing end sem exam
B,E/ B,Tech (Regular)	4 Yrs	5 Yrs		8.5	First attempt	One year authorised break of study included in the Duration permitted	Not permitted	Will not be considered as an attempt
B,E/ B,Tech (Lateral)	3 Yrs	4 Yrs		8.5	First attempt	One year authorised break of study included in the Duration permitted	Not permitted	Will not be considered as an attempt

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B,E/ B.Tech (Hons)	3/4 Yrs (Lateral, Regular respectively)	4 /5 Yrs (Lateral, Regular respectively)	18 credits from more than one verticals of the same program me	8.5	First attem pt	One year authorise d break of study included in the Duration permitted	Not permitted	Will not be conside red as an attempt
B,E/ B.Tech (Minor)	3/4 Yrs (Lateral, Regular respectively)	4 /5 Yrs (Lateral, Regular respectively)	18 credits from more than one verticals of the other program me	8.5	First attem pt	One year authorise d break of study included in the Duration permitted	Not permitted	Will not be conside red as an attempt

18.1.2 First Class:

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

- ❖ Should have passed the examination in all the courses of all eight semesters and (6 semesters in the case of Lateral Entry) within Five years and Four years in the 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 five years and four years in the case of lateral entry for award of First class.

Should have secured a CGPA of not less than 6.50

B.E/ B.Tech Programmes R-2024

Degree	Duration of Programme	Duration Permitted	Additional credits	CGP A	Pass	Break of study	Prevention to write end sem exam	Withdrawal from writing end sem exam
B,E/B,Tech (Regular)	4 Yrs	5 Yrs		6.5		One year authorised break of study included in the Duration permitted	Included in the Duration permitted	
B,E/B,Tech (Lateral)	3 Yrs	4 Yrs		6.5		One year authorised break of study included in the Duration permitted	Included in the Duration permitted	
B,E/B,Tech (Hons)	3/4 Yrs (Lateral, Regular respectively)	4 /5 Yrs (Lateral, Regular respectively)	18 credits from more than one verticals of the same programme	7.5	First attempt	One year authorised break of study included in the Duration permitted	Not permitted	Will not be considered as an attempt
B,E/B,Tech (Minor)	3/4 Yrs (Lateral, Regular respectively)	4 /5 Yrs (Lateral, Regular respectively)	18 credits from more than one verticals of the other programme	6.5		One year authorised break of study included in the Duration permitted	Included in the Duration permitted	

18.1.3 Second Class:

All other students (not covered in clauses 18.1.1 & 18.1.2) who qualify for the award of the degree (vide Clause 18) shall be declared to have passed the examination in Second Class.

A candidate who is absent in final 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.

Student earned additional 18 credits as per Clause 4.10 (i) and (ii) but does not satisfy the conditions mentioned in 16.2.1 or 16.2.2 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.

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 17).

19. PROVISION FOR WITHDRAWAL FROM EXAMINATIONS

- (i) A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Head of the Institution through the concerned HOD) be granted permission to withdraw from appearing for the end semester examination in any course or courses in ANY ONE of the semester examinations during the entire duration of the degree programme. The application shall be sent to Head of the Institution for approval through HOD with required documents.
- (ii) Withdrawal application shall be valid only if the student is otherwise eligible to write the examination (Clause 7) and it shall be made within TEN working days before the commencement of the end semester examination in that course or courses and also the withdrawal application shall be recommended by the Head of the Department and approved by Head of the Institution.
- (iii) Notwithstanding the requirement of mandatory TEN working days notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- (iv) If a student withdraws a course or courses from writing end semester examinations, he/she shall register the same in the subsequent semester and write the end semester examination(s).
- (v) Withdrawal shall not be considered as an appearance for deciding the eligibility of a student for First Class with Distinction.
- (vi) Withdrawal is permitted for the end semester examinations in the final semester only if the period of study the student concerned does not exceed 5 years as per clause 18.1.1.

20. PROVISION FOR AUTHORIZED BREAK OF STUDY

- (i) A student is permitted to go on authorized break of study for a maximum period of one year as a single spell.

- (ii) Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the student may apply for additional break of study not exceeding another one year. If a student intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to re-join the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Head of the Institution in advance, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Department stating the reasons therefore and the probable date of re-joining the programme.
- (iii) 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 students rejoining in new Regulations shall apply to the Head of the Institution in the prescribed format through Head of the Department at the beginning of the readmitted semester itself for prescribing additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.
- (iv) 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 for 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.
- (v) The authorized break of study is included in the duration specified for passing all the courses for the purpose of classification (vide Clause 18.1).
- (vi) 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.
- (vii) If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 20 (i)).
- (viii) 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 authorised 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.
- (ix) No fee is applicable to students during the Break of Study period.

21. DISCIPLINE

A student is expected to follow the rules and regulations laid down by the Institute and the affiliating University, as published from time to time. Any violations, if any, shall be treated as per the procedures stated thereof. If a student indulges in malpractice in any of the Internal Assessment Examinations / final Examinations, he / she shall be liable for punitive action as prescribed by the Controller of Examination from time to time.

22. REVISION OF REGULATION, CURRICULUM AND SYLLABI

The Institution may from time-to-time revise, amend or change the Regulations, scheme of examinations and syllabi if found necessary. However, a Standing Committee which shall be constituted by Head of the Institution on need basis for any special case, which falls beyond the above rules and regulations they will offer suitable interpretations/ clarification/ amendments required for special case. All such exceptions will have to be ratified at the next meeting of the Academic Council. The decision of the Academic Council is final.


CHAIRMAN - ACADEMIC COUNCIL
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