



Namakkal-Trichy Main Road, Thottiam, Tiruchirappalli-621215

Affiliated to Anna University, Chennai

Regulations: R2024

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

(Choice Based Credit System)

(For the candidates admitted from the academic year 2024-2025 onwards)

Vision

“To become Internationally Renowned Institution in Technical Education, Research and Development by Transforming the Students into Competent Professionals with Leadership Skills and Ethical Values”

Mission

- Providing the Best Resources and Infrastructure
- Creating Learner-Centric Environment and Continuous Learning
- Promoting Effective Links with Intellectuals and Industries
- Enriching Employability and Entrepreneurial Skills
- Adapting to Changes for Sustainable Development

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DEGREE OF BACHELOR OF ENGINEERING / BACHELOR OF TECHNOLOGY

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

1. Preliminary Definitions and Nomenclature

In these Regulations, unless the context otherwise requires:

- i) **“Programme”** means Degree Programme that is, B.E. / B.Tech. Degree Programme.
- ii) **“Discipline”** means Branch or specialization of B.E./ B.Tech. Degree Programme, like Civil Engineering, Information Technology, etc.,
- iii) **“Course”** means a theory or practical subject that is normally studied in a semester, like Mathematics, Physics, Engineering Graphics, Circuit Theory etc.,
- iv) **“Principal”** means the Chairman, Academic Council, authority of the Autonomous Institution who is responsible for all academic activities of the Institute for implementation of relevant Rules and Regulations.
- v) **“Controller of Examinations”** means the authority of the Autonomous Institute who is responsible for all activities of the End semester Examinations of the college.
- vi) **“Head of the Institution”** means the Principal of the college.
- vii) **“Chairman, BoS”** means Chairman of Board of Studies of each department.
- viii) **“Head of the Department”** means Head of the Department concerned.
- ix) **“Credit”** means a numerical value allocated for each course to describe the student’s workload required per week.
- x) **“Grade”** means the letter grade assigned to each course based on the range of marks specified.
- xi) **“Grade Point”** means a numerical value (0 to 10) allocated based on the grade assigned to each course.
- xii) **“University”** means Anna University, Chennai.
- xiii) **“LE”** means Lateral Entry Scheme.

2 Admission Procedure

2.1 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 Tamilnadu 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 Tamilnadu.

2.2 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 Government of Tamil Nadu.

(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. In addition any other conditions as notified by the Government of Tamil Nadu will be followed.

2.3 The eligibility criteria such as marks, number of attempts and physical fitness shall be as prescribed by the Syndicate of the University from time to time.

3. Programmes Offered

A candidate may be offered admission to any one of the programme / discipline of study approved by the Academic Council of institution.

- B. E. Biomedical Engineering
- B. E. Civil Engineering
- B. E. Computer Science and Engineering
- B. E. Electronics and Communication Engineering
- B. E. Electrical and Electronics Engineering
- B. E. Mechanical Engineering
- B.Tech. Agricultural Engineering
- B.Tech. Artificial Intelligence and Data Science
- B. Tech. 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 the theory and practical courses such as:

- i. **Humanities, Social Sciences and Management Courses (HSMC)** courses include Technical English, Communication skills, Professional Ethics & Human Values and Management Courses.
- ii. **Basic Sciences Courses (BSC)** include Mathematics, Physics, Chemistry, Environmental Sciences, etc.,
- iii. **Engineering Sciences Courses (ESC)** includes Engineering Practices, Engineering Graphics, Basics of Civil / Electrical / Electronics / Mechanical / Computer Engineering, etc.,
- iv. **Professional Core Courses (PCC)** relevant to the chosen specialization / branch.
- v. **Professional Elective Courses (PEC)** include the verticals with elective courses and elective courses relevant to the chosen specialization / branch.
- vi. **Open Elective Courses (OEC)** multidisciplinary courses and include the courses from Humanities and other disciplinary of Engineering and Technology. Students can choose those courses from the list of open elective courses specified in the respective curriculum.
- vii. **Employability Enhancement Courses (EEC)** includes Project Work and / or Internship, Seminar, Professional Practices, Case Study and Industrial / Practical Training, Soft Skill Training etc.,
- viii. **Value Added Course (VAC)** means a course that will be offered by the department, to bridge the gap between the curriculum and the requirements of the Industry, which could be selected by any student in the college.
- ix. **Mandatory Courses (MC)** is to be studied compulsorily by all the students irrespective of the programme which includes Induction Program, UHV – II and Constitution of India, Heritage of Tamil, Tamils and Technologies.

4.2 Induction Programme

- Induction Programme is mandatory for the students pursuing the Undergraduate Programme which 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 Principal.
- 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.

4.3 Personality and Character Development

All students shall enroll, on admission, in any one of the personality and character development programmes (NCC/NSS/YRC/Sports/Yoga) and undergo training for about 80 hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first aid. Alternately, activities of science club, literature club and arts club also help for personality and character development. So, students shall conduct and participate actively in Science club/Literary Forum/Fine Arts 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 / Institution.

Youth Red Cross (YRC) will have activities related to social services in and around college/institutions.

Sports will have Games, Drills and Physical exercises.

Yoga will have physical activity, breathing techniques, meditation, etc to develop harmony in the body and environment.

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

Science Club shall organise activities of popularisation of science and scientific temper through activities related to astronomy, works of great scientists from India and abroad, observing National Science Day, etc.

Literary Club like 'Tamil Ilakkiya Mandram' shall be formed, which shall organise colourful literary events to propagate good humanist values, morals and ethics reflected in the literature.

Fine Arts Club like music, painting and documentary films with social themes

shall be encouraged.

Students who enroll and take active participation in anyone of the above activities for 80 hours and participate at least one event/programme will be given a certificate by the Head of the Institution and the copy of the same shall be forwarded to the Controller of Examinations for the purpose of record and scrutiny.

4.3.1 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 4.4.

4.4 Credit Assignment

Each course is assigned certain number of credits based on the following:

Contact period per week	Credits
1 Lecture Period	1
1 Tutorial Period	1
1 Laboratory Period (also for EEC courses like Seminar / Mini Project / Project Work / Soft Skills / etc.)	0.5

4.5 Industrial Training/ Internship

- 4.5.1** 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 the Controller of Examinations shall be submitted to the Head of the Institution. The attendance certificate

shall be forwarded to the COE, through the Head of the Institution for processing results.

- 4.5.2** 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.

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

***1 Week = 40 Internship Hours**

- 4.5.3** The minimum of two weeks of Industrial Training / Internship during summer/winter vacation in the entire duration of study is compulsory for the award of the degree.

4.6 Industrial Visit

Every student is required to go for two Industrial Visits in second and third year of the programme. The Heads of Departments shall ensure that necessary arrangements are made in this regard.

4.6.1 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 3 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 other 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 approved by Department Consultative Committee (DCC) 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 12.4.7.

4.7.a Every student shall be required to opt for 10 elective courses from the list of electives. Students should study seven Professional Elective courses from his / her own discipline courses, during V to VIII Semesters, if he/she satisfies the prerequisite for that particular course. The choices of professional elective courses are detailed in clause 6.3.

However, every student shall be required to study three courses as open electives from the list of electives of the branch / branches other than his / her branch of specialization, if he/she satisfies the prerequisite for that particular course. The course / content should not be covered in their own curriculum and syllabi.

4.7.b Certificate Course

Students can undergo the globally acclaimed technical certificate course facilitated by the Institution. This certification establishes an industry standard by which students are evaluated through a fair, comprehensive test of their knowledge in the areas related to their disciplines. Being certified makes the student, a highly competent professional. After attending the Course, students can appear for the respective international certification examinations. For example, certificate courses like, Cisco Certified Network Associate (CCNA), Certified SOLIDWORKS Associate (CSWA and other relevant courses as suggested and approved by HoD and BoS may be offered. Exemption will be given from the value added courses equal to the no. of certificate courses completed.

4.7 Value Added Courses

In order to prepare the students to meet the challenges of the global work environment, value added courses are offered to bridge the gap between the curriculum and the requirements of the industry. Each value added course shall have minimum duration of 40 hours. Value added courses are designed and offered by each department for the benefit of the students. All the students have to undergo at least two value added courses of their

entire study. Students can choose any two value added courses offered by the various departments, based on their areas of interest. The students have to register for the value added courses by the value added course registration form through their concerned HoD to the HoD of the department offering the course, before the commencement of the semester.

4.7.1 One / Two Credit Courses / Self Study Courses

The candidates may optionally undergo One / Two Credit Courses / Online Courses / Self Study Courses as elective courses.

4.7.1 One / Two Credit Courses: One / Two credit courses shall be offered by the college with
.1 the prior approval from respective Board of Studies. A candidate can earn a maximum of six credits through one / two credit courses during the entire duration of the programme.

4.7.1 Self Study Courses: The Department may offer an elective course as a self study course.
.2 However, mode of assessment for a self study course will be the same as that used for other courses. The candidates shall study such courses on their own under the guidance of member of the faculty following due approval procedure.

A student can register for Self-Study Elective(s), the electives from any branch of Engineering / Technology at the rate of one per semester starting from V semester onwards provided he/she maintains a Cumulative Grade Point Average (CGPA) of 8.50 or above till the previous semesters with no current arrears.

4.7.1 The elective courses in the final year may be exempted if a candidate earns the required
.3 credits vide clause 4.7.1.1 and 4.7.1.2 by registering the required number of courses in advance. Course exemption is permitted for a student to a maximum of two courses per semester in the final year of BE / BTech.

4.7.1.5 A Candidate can earn a maximum of 30 credits through all one/two credit courses, online courses and self-study courses.

4.8 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 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.

4.8.1 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, transfers 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 students passes the courses as per the guidelines of NPTEL.

Table 3: Duration of the course and Number of credits

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

- 4.8.2** 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 University abroad as per the procedure outlined by the Academic Council and Board of Studies. The credits earned by the students in the University abroad shall be transferred as per the learning agreement.

In the case of 4.8.2. 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 Head of the Institution.

- 4.8.3** 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 4.8.3 (ii) (a) and the company with which the knowledge transfer company associated in the case of 4.8.3 (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 4.8.3 (ii) shall be B.E. / B.Tech with 10 years of research / industrial experience. Such courses shall be offered through MOU / MOA with 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 Head of the Institution and approved by Academic Council as per the Regulations.

For the offer of each course under 4.8.3, 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. The passing requirements are as per regulations.

4.9.a Mini Project

Two Mini Project courses of one Credit each are included in every UG programme, the choice of semesters may be five, six and seven in order to enhance the employability skills of the students. Through this course, students will gain premier knowledge on various domains and adapt to industry needs.

4.9 Mandatory courses

Mandatory Courses (MC) should be studied compulsorily by all the students irrespective of the programme, like Constitution of India, Universal Human Values, Heritage of Tamil and Tamils and Technology as mentioned in the curriculum. Mandatory Courses may or may not have credits. These courses shall carry a maximum of 100 marks each and shall be evaluated through internal mode only. The evaluation will be made as per the regulations. The mandatory courses will be mentioned in the Grade Sheet.

4.10 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 Academic Council.
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 4.10 (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 4.10 (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.

4.11 Soft Skills and Aptitude Skills

In order to enhance the employability of students, one credit Employability Enhancement courses are included in the curriculum from semester I to VI, they are given soft skills training areas like Communication, Leadership, Teamwork, Creativity, etc., and Aptitude training on significant areas like Verbal ability, Logical Reasoning and Quantitative aptitude, etc.,.

4.12 Conduct Lectures / Training by Adjunct Faculty

The classes delivered by adjunct faculty may be conducted through offline mode / online mode for students. The respective departments shall obtain the approval from the Principal before conducting such classes.

4.13 Medium of Instruction

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

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 50 minutes each. The Head of the Department shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.

5.3 The Head of the Institution may conduct additional classes for improvement, special coaching, conduct of 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.

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

taken together for all courses of the semester

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 (third semester in case of LE) to which the candidate was admitted shall not be exceed the maximum period specified in clause 5.1 irrespective of the period of break of study (vide clause 18) in order that he/she may be eligible for the award of the degree (vide clause 16).

6 Course Registration

- 6.1** Each student has to register for all the courses to be undergone in the curriculum of a particular semester. The student can also register for courses for which the student has failed in the earlier semesters (with the facility to drop courses to a maximum of 6 credits (vide clause 6.2)). In such cases the student shall do reappearance registration for those courses for which the attendance requirement is not compulsory. This registration is for undergoing the course as well as for writing the End Semester Examinations. No Elective course shall be offered by any department unless a minimum 10 students register for the course. However, if the students admitted in the associated Branch and Semester is less than 10, this minimum will not be applicable. The courses dropped in earlier semesters can be registered in the subsequent semesters when offered.

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

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.

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.

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 this 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.

7 Attendance Requirements for Completion of a Semester

- 7.1 A Candidate 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 nearest integer) of overall attendance as calculated as per clause 5.3.

- 7.2 However, a candidate 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 candidate shall submit the medical certificate / sports participation certificate attested by the Head of the Institution.

- 7.3 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 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. Class Advisor

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

- To act as the channel of communication between the HoD and the students of the respective class.
- To collect and maintain various statistical details of the 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 students welfare activities like awards, medals, scholarships and industrial visits.

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 the problems experienced by the students in the classroom and in the laboratories. Clarifying the Regulations of the degree programme and the details of rules therein.
- 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 all the students.
- Analyzing the performance of the students of the class after each test and finding

ways and means of solving problems if any.

- 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 Maximum of 6 student representatives shall be included in the class committee.
- 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 Institution.
- 9.7 The chairperson is required to prepare the minutes of every meeting, submit the same to Head of the Institution within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the Management, the same shall be brought to the notice of the Management by the Head of the Institution.
- 9.8 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 at suitable intervals. The Class Committee Chairperson shall put on the Notice Board the cumulative attendance particulars of each student 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. Course Committee for Common Courses

Each common theory course offered to more than one discipline or group, shall have a “Course Committee” comprising all the teachers teaching the common course with one of them nominated as Course Coordinator. The nomination of the Course Coordinator shall

be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The '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).

10.1 Departmental Consultative Committee

All departments shall constitute a Departmental Consultative Committee (DCC) consisting of the HOD as Chairperson and Three senior faculties. The responsibilities of DCC are:

1. To review and approve industries or other organizations identified for industrial training, internship or project work of students.
2. To review and approve online/NPTEL/Self-study courses selected by students for their content and quality.
3. To review the courses offered by industries and to send the recommendations to COE.

11. System of Examination

- 11.1** Performance in each course of study shall be evaluated based on (i) continuous internal assessment throughout the semester and (ii) end semester examination at the end of the semester.
- 11.2** Each course, both theory and practical (including project work & viva voce Examinations) shall be evaluated for a maximum of 100 marks.
- 11.2.1** For all theory courses, the continuous internal assessment will carry **40 marks** while the End Semester University Examination will carry **60 marks**.
- 11.2.2** For all theory courses with laboratory component, the continuous internal assessment will carry **50 marks** while the End Semester examination will carry **50 marks**.
- 11.2.3** For all laboratory courses, the continuous internal assessment will carry **60 marks** while the End Semester examination will carry **40 Marks**.
- 11.2.4** The continuous internal assessment for the project work will carry **60 marks** while the End Semester Examination will carry **40 marks**.
- 11.3** Industrial Training and Seminar shall carry 100 marks and shall be evaluated through internal assessment only.

- 11.4** 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.
- 11.5** The end semester examination for project work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 3 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, the supervisor of the project group and an internal examiner.
- 11.6** For the end semester examination in both theory and practical courses including project work the internal and external examiners shall be appointed by the Controller of Examinations.

12. Procedures for Awarding Marks for Internal Assessment (IA)

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 Internal Assessment for Theory Courses

Two assessments each carrying 100 marks shall be conducted during the semester by the Department concerned. The total marks obtained in all assessments put together out of 200, shall be proportionately reduced for 40 marks and rounded to the nearest integer (This also implies equal weightage to the two assessments).

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

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

A minimum of 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., Individual Assignment / Case study / Seminar / Mini project / any other experimental 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 nearest integer.

12.2 Internal Assessment for Laboratory Courses

The maximum marks for Internal 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 are to be maintained. There shall be atleast one test. The criteria for arriving at the Internal Assessment marks of 60 is as follows : 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

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

*Internal Assessment marks shall be converted into 60 marks

12.3 Theory Courses with Laboratory component / Laboratory Courses 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.

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

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 3 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 (i) PG degree or (ii) Ph.D. degree.

12.4.2 The Project Work carried out in industry / academic / research institution shall be jointly supervised. The Project Work shall be jointly supervised by a supervisor of the department and an expert from the organization as a joint supervisor 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 Institution and suitable record of the meetings shall be maintained.

12.4.3 The Head of the Institutions 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 consist of the supervisor, the coordinator from industry and the project coordinator from the Department.

There shall be three reviews conducted 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 Controller of Examinations. 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 awarded to each student of the project group is based on the individual performance in the viva-voce examination.

Continuous Assessment (60 Marks)			End Semester Examinations (40 Marks)			
Review I	Review II	Review III	Project Report	Viva-Voce Examination		
20	20	20	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.

All the project batches of VIII semester students are expected to present their project outcomes in one International / National Conference / Copyright / Patent Rights.

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.

12.4.7 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 atleast 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 upto 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 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 Head of the Institution 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.

12.5 Other Employability Enhancement Courses

(a). The Seminar / Case Study / Mini 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 performances of the students in Employability Enhancement Courses in the category of soft skill courses, are evaluated through continuous internal assessments only for 100 marks. Every exercise shall be evaluated based on conduct of exercise and records are to be maintained. There shall be atleast one test. The criteria for arriving the marks is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments and 25 marks for the test. The total marks obtained shall be reduced to 100 marks and rounded to the nearest integer.

(c). The Industrial Training, in plant training and Summer / winter Internship shall carry 100 marks and shall be evaluated through internal assessment only.

The following is the assessment methodology to be followed:

1. Students shall submit a report on the work done during the course duration which consists of the following:
 - Description of the work
 - Feedback from the respective Industry mentor
 - Photographs of the students in the industry if the work is undertaken there
 - Completion certificate from the Industry / faculty mentor
2. The final viva-voce shall be conducted by a committee duly appointed by the office of COE which consists of a person from the related industry, two faculty members –
 1. From the same department;
 2. From another related department

12.6 Assessment for Value Added Course

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 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. Students who failed in value added course have to appear for the supplementary internal examination. Securing a pass in the two value added courses registered, before the commencement of VIII Semester is necessary for the award of degree.

12.6.1 Assessment for Mini Project

The Mini Project shall carry 100 marks and shall be evaluated through three reviews as continuous assessments. The first and second 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 third review will be conducted based on the report and Viva-Voce Examination conducted by the same committee and the evaluation report shall be sent to Controller of Examinations by the Head of the Department.

The breakup of marks is given in the Table :

Continuous Assessment for Mini Project

Mini Project	Continuous Assessment Evaluation			
	Review I	Review II	Review III (50 marks)	
			Report	Viva-Voce Examination
Marks	25	25	20	30

12.7 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 and Assessment 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, assignment 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, assignment marks and attendance. The Head of the department will put his/her signature with 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).

12.9 Conduct of Academic Audit

The internal assessments are conducted for better performance of the students' 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 students' record shall be maintained. Further, the attendance of all students shall be maintained as a record. Also, The academic audit shall include verification of 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.

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 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.

12.10 The following will be the weightage for different courses.

i). Theory Courses

Internal Assessment	: 40 Marks
End-Semester Exams	: 60 Marks

ii). Theory Courses with Laboratory Component

Internal Assessment	: 50 Marks
End-Semester Exams	: 50 Marks

iii). Practical Courses

Internal Assessment	: 60 Marks
End-Semester Exams	: 40 Marks

iv) Project Work

Internal Assessment	: 60 marks
End semester (Project work report Evaluation and viva-voce examination)	: 40 marks

13. Requirements for Appearing for End Semester Examination

A candidate shall normally be permitted to appear for the end semester examinations for all the courses registered in the current semester (vide clause 6) if he/she has satisfied the semester completion requirements (subject to 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 candidate 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.

14. Passing Requirements

- 14.1** A candidate who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End Semester Examinations] with a minimum of 45% of the marks prescribed for the end-semester Examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and practical courses (including project work).
- 14.2** If a student fails to secure a pass in a theory course / laboratory course (except electives), the student shall register and appear only for the end semester examination 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.

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, fulfil the attendance requirements as per clause 7 and appear for the end semester examination.

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 through purely internal mode only (Mandatory Courses, EEC courses except Project work & Laboratory), is 50% marks only.

14.5.1 Student Migration and Credit Transfer: Normalization of the credits will be carried out in consultation with the Board of Studies of the programme concerned and approved by the Head of the Institution, if a student migrates from other affiliated institutions to Kongunadu College of Engineering and Technology or rejoins from previous regulation to this regulation.

14.6 In order to complete the programme within 4 years, if a student has to reappear for ONE / TWO courses of final semester only after the announcement of the end semester examination results, the student will be permitted to appear for supplementary examination. The supplementary examination will be conducted within a month after the announcement of the end semester examination results. For supplementary examination the continuous assessment marks of the last attempt will be considered.

15. Award of Letter Grades

- 15.1 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 detailed below:

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 (as per clause 7.3) 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 as per the Regulations.

If the grade *U* is given to Theory Courses/ Laboratory Courses it is not required to satisfy the attendance requirements (vide clause 7), but has to appear for the end semester examination and fulfil the norms specified in clause 14 to earn a pass in the respective courses.

If the grade *U* is given to EEC course (except, Project Work), which are evaluated only

through internal assessment, the student shall register for the course again in the subsequent semester, fulfil the norms as specified in clause 14 to earn pass in the course. However, attendance requirement need not be satisfied.

15.1.1 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

15.1.2 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 - 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

- 15.2 For the Co-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS) / NSO / YRC / Women Development Cell / 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.**

- 15.3 For the Induction Program a "**Completed**" grading will appear in the Grade sheet. **A Completed grade in the Induction Program is compulsory for the award of degree.**

15.4 For the Mandatory Courses a “**Passed**” grading will appear in the Mark Sheet. The Courses for which the grades are RA, SA will not figure in the mark sheet. **A Passed grade in the Mandatory Courses is compulsory for the award of degree.**

15.4.1 The grades earned for **Value Added Courses** as any of the following grades: "O", "A+", "A", "B+", "B", "C", will be recorded in the Grade Sheet. However the same shall not be considered for computation of CGPA. The completion of two value added courses with above said grades are compulsory for the award of the degree.

15.5 Grade Sheet

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

- 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.

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

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.

- 15.5.1** 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 4·10.6 and 4·10.7.
- 15.5.2** 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 semester VIII.
- 15.5.3** In the consolidated grade sheet the CGPA earned shall be converted into percentage of marks as follows:

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

16. Eligibility for the Award of Degree

- 16.1** A student shall be declared to be eligible for the award of the B.E. / B.Tech. Degree provided,
- i) The student has successfully gained the required number of total credits as specified in the curriculum corresponding to student's programme within the stipulated time.
 - ii) The student has successfully completed the course requirements, appeared for the End - Semester examinations and passed all the subjects within the period as prescribed in clause 5.1.
 - iii) The student has successfully completed any additional courses prescribed by the Chairperson, Academic Council whenever, any candidate is readmitted under regulations other than R2024 (vide clause 18.2)
 - iv) Successfully completed the NCC / NSS / YRC / Sports / Yoga / Women Development Cell / Science Club / Literature Club / Fine Arts Club requirements requirements.
 - v) Successfully completed the Value Added Courses requirements.
 - vi) Successfully completed the Industrial Visits and Internship.
 - vii) Successfully completed the Mandatory Courses requirements
 - viii) The student has no disciplinary action pending against him/her.
 - ix) The award of Degree must have been approved by the Syndicate of the University.

16.2 Classification of the Degree Awarded

16.2.1 First Class with Distinction

A 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 17) 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 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 4.10 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 (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits above the requirement of curriculum (iv)	CGPA (v)	Pass in (vi)	Break of study (vii)	Prevention to write end semester examination (viii)	Withdrawal from writing end semester examination (ix)
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)	3/4 years (Lateral entry and Regular, respectively)	4/5 Years (Lateral entry and Regular, respectively)	18 credits from more than one verticals 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	3/4 Years (Lateral entry and Regular, respectively)	4/5 Years (Lateral entry and Regular, respectively)	18 credits from any one 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

16.2.2 First Class:

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

- Should have passed the examination in all the courses of all eight semesters 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.
- A student who satisfies norms given in clause 4.10 becomes eligible for classification of the degree with B.E./B.Tech. (Honours) and B.E./B.Tech. minor.

Details are provided in Table.

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits (iv)	CGPA (v)	Pass in (vi)	Break of study (vii)	Prevention to write end semester examination (viii)	Withdrawal from writing end semester examination (ix)
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)	3/4 Years (Lateral entry and Regular, respectively)	4/5 Years (Lateral entry and Regular, respectively)	18 credits from more than one verticals of the same programme	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	3/4 Years (Lateral entry and Regular, respectively)	4/5 Years (Lateral entry and Regular, respectively)	18 credits from any one vertical of the other programme	6.50	-	One year authorised break of study included in the Duration permitted (iii)	Included in the Duration permitted (iii)	-

16.2.3 Second Class:

Students who pursue B.E./B.Tech. in Regular mode or lateral entry mode or B.E./B.Tech. minor in specialisation of another discipline and who are not covered in clauses 16.2.1 and 16.2.2 and who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in Second Class.

16.2.4 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 15) for the purpose classification.

16.2.5 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.

16.3 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 17).

16.4 Photocopy / Revaluation

A candidate can apply for photocopy of his/her end semester examinations answer paper in a theory course, within two weeks from the declarations of results on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of Institutions. The answer script is to be valued and justified by a faculty member, who handled the subject and recommend for revaluation with the breakup of marks for each question. Based on the recommendation, candidate can register for the revaluation through proper application to the Controller of Examinations. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the candidates concerned through the Head of the Department. Revaluation is not permitted for practical courses and for EEC courses.

A candidate can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

16.5 Review

Candidates not satisfied with Revaluation can apply for Review of his/ her examination answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to Controller of Examination through the Head of the

Institution.

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

16.6 Ranks Awarded to Students

Ranks are awarded for each programme based on the following criteria.

- The number of ranks awarded for each programme is 5% of the student's intake in that programme.
- The rank of a student is determined from CGPA. However, students who have scored less than 7.5 CGPA will not be eligible for a rank.
- Students should have passed the End Semester Examination in all the courses of all the eight semesters (six semesters in case of LE) in his/her First Appearance without any break of study.

17. Provision for Withdrawal from End Semester Examination

- 17.1** A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Chairman, sports board / Head of the Institution) 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.
- 17.2** Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 7) and if it is made within TEN days prior to the commencement of the examination in that course or courses and recommended by the Head of the Institution with intimation to the Controller of Examinations.
- 17.2.1** Notwithstanding the requirement of mandatory 10 days notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 17.3** In case of withdrawal from course/courses, it will figure both in Marks Sheet as well as in Result Sheet. However, withdrawal shall not be considered as an appearance for the eligibility of a candidate for First Class with Distinction.
- 17.4** 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).
- 17.5** If a student applies for withdrawal from Project Work, he/she will be permitted for the withdrawal only if the student has submitted the project report before the deadline.

However, the student may appear for the viva-voce examination within 60 days after the declaration of results for Project Work and the same shall not be considered as reappearance.

- 17.6** Withdrawal is permitted for the end semester examinations in the final semester, as per clause 16.2.1.

18. Provision for Authorized Break of Study from a Programme

- 18.1** A student is permitted to avail authorised break of study for a maximum period of one year in a single spell.
- 18.2** Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the student may apply for additional break of study not exceeding another one year by paying prescribed fee for break of study. If a student intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she shall apply to Head of the Institution in advance, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Department stating the reasons therefore and the probable date of rejoining the programme.
- 18.3** The students permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining. The students rejoining in new Regulations shall apply in the prescribed format through Head of the Institution at the beginning of the readmitted semester itself. The students rejoining in new regulations shall register for additional courses, if any, as recommended by the Board of Studies under change of regulations. These courses may be from any of the semesters of the curriculum in force, so as to bridge the curriculum in force and the old curriculum. In such cases, the total number of credits to be earned by the student may be more than or equal to the total number of credits prescribed in the curriculum in force.
- 18.4** The authorized break of study of maximum of one year is included in the duration specified for passing all the courses for the purpose of classification (vide Clause 16.1).
- 18.5** The total period for completion of the Programme reckoned from, the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study in order that

he/she may be eligible for the award of the degree.

- 18.6** If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1)
- 18.7** 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 student shall undertake the job / start-up / entrepreneurship only after getting approval with due proof to that effect.
- 18.8** No fee is applicable to students during the Break of Study period.

19. Discipline

- 19.1** Every student is required to observe disciplined and decorous behavior both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the Institution. The Head of Institution shall constitute a disciplinary committee consisting of Head of Institution, Two Heads of Department of which one should be students department, to enquire into acts of indiscipline.
- 19.2** If a student indulges in malpractice in any of the End semester examination / internal examination, he / she shall be liable for punitive action as prescribed by the Institution from time to time.
- 19.3** Ragging is not at all allowed. Punitive actions will be taken against the students involved in ragging as per the government norms.

20 Pro - Internship Scheme

Pro-Internship scheme is designed specifically for students with good academic credentials. It presents a unique opportunity for the students to complete the theory courses of the program in seven semesters. Pro - Internship allows students to take up the VIII semester theory courses in VI and VII semesters itself. Students can go for internship during the VIII semester and complete the VIII semester Project Work in well reputed Industries / organizations / R & D organizations / Premier Institutions, as part of their internship.

20.1 Internship Benefits to Students

During the Internship Students can apply their theoretical knowledge they have studied to practical problems in an engineering / technology environment. They will have the opportunity to screen career choices. It provides experience often required for future, full-time job searches. Experience through internship facilitates sound judgment,

confidence, teamwork, self-discipline, and communication skills among the students. They have the possibility to establish contact with practicing professionals and to get full-time job offers at graduation. It provides an opportunity to earn while learning.

20.2 Eligibility

The guidelines presented below will be used to select the students for Pro-Internship

- i. Students who are in the VI semester with a minimum CGPA of 7.5 up to V semester.
- ii. Those who have completed all the courses up to V semester.
- iii. However only students who complete all the courses up to VII semester will be allowed to proceed with the Internship cum Project.

20.3 Application to the Pro - Internship Scheme

Students eligible for Pro-Internship scheme should apply for the scheme to their HoD within 7 days from the date of publication of V semester results in the VI semester of their study.

20.4 Guidelines to be followed

- a. Pro-Internship students should take at least one VIII semester theory course in VI semester. The rest of the VIII semester theory courses can be completed in VII semester.
- b. The Pro-Internship option requires students to attend two evening classes of 4 period's duration per week for the VIII semester courses during their VI and VII semesters of their study. If required, students need to attend additional classes during holidays to meet the curriculum requirement.
- c. Students will be permitted to start the internship only after the seventh semester end terminal examinations
- d. Students doing the internship should attend the Project Reviews in the scheduled dates. After completion of the internship cum project, the final summative evaluation will be conducted with a view to assign the final score.

20.5 Terms and conditions for Internship

- a. The Internship should be carried out at a single organization.
- b. It should be completed within one semester.
- c. All arrangements should be specified in the internship agreement.
- d. During long leave period and closure of Industries / R&D organization/Premier Institutions for any reason, during the internship period, the students concerned should continue the work only in the college.

- e. Students should adhere to the rules and regulations of the college and Industries/ R&D organization / Premier Institutions during the Internship cum Project period.

20.6 Termination of the Internship

- a. In the event of prolonged absence of student during the internship (or)
- b. If the student has to discontinue the internship due to unforeseen circumstances during that period (or)
- c. If the performance of the work done by the student in the Industries/ R&D organization/Premier Institutions is not satisfactory during the Project Review (or)
- d. If the student violates the college rules and regulations during the Internship cum Project period,

Then the Internship cum Project will be terminated for these students, after due intimation to the company. In such a situation, the VIII Semester Project will be in jeopardy, i.e. these students have to repeat their VIII Semester project in the next academic year.

21 Revision of Regulations and Curriculum

The Institution may from time to time revise, amend or change the Regulations, Curriculum, Syllabus and scheme of examinations with the approval of Academic Council if found necessary.
