



## **SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY**

An Autonomous Institution | Approved by AICTE | Affiliated to Anna University | Accredited by NAAC with A++ Grade  
Kuniamuthur, Coimbatore – 641008  
Phone : (0422)-2678001 (7 Lines) | Email : [info@skcet.ac.in](mailto:info@skcet.ac.in) | Website : [www.skcet.ac.in](http://www.skcet.ac.in)



# **ACADEMIC REGULATION 2025**

**(For all the students admitted to B.E / B.Tech / M.Tech (5 years Integrated) Programmes from the Academic Year 2025-2026 Onwards)**



VISION

## VISION

To Produce Globally Competitive Engineers with High Ethical Values and Social Responsibilities.



MISSION

## MISSION

- ✓ To impart the highest quality state-of-the-art technical education by providing impetus to innovation, research and development and empowering students with entrepreneurship skills.
- ✓ To instill ethical values, imbibe a sense of social responsibility, and strive for societal well-being.
- ✓ To identify the needs of society and offer sustainable solutions through outreach programs.

## QUALITY POLICY

We at Sri Krishna College of Engineering and Technology are committed to produce globally competitive and ethical engineers through the following: Innovative Teaching Learning Process, Accelerated Research, Industry Based Curriculum, Practicing Moral and Ethical Values, and Continuous Process Improvement.

# REGULATIONS 2025

## CHOICE BASED CREDIT SYSTEM

Common to all

### B.E./B.Tech. / M.Tech Full-Time Programmes

This regulation is applicable to the students admitted to B.E./B.Tech./M.Tech. Programmes at Sri Krishna College of Engineering and Technology (Autonomous) from the academic year 2025- 2026 onwards.

#### 1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

- I. **“University”** means ANNA UNIVERSITY, CHENNAI.
- II. **“Programme”** means a degree programme that is B.E./B.Tech. Degree programmes.
- III. **“Specialization / Branch / Discipline”** means specialization or branch of a B.E./B.Tech. Degree programme, like Mechanical Engineering, Information Technology, etc.
- IV. **“Course/Subject”** means a Theory or Laboratory or Theory cum Laboratory that is normally studied in a semester, like Mathematics, Physics, etc.
- V. **“Chairperson/Chairman”** means the Head of the Department of the Board concerned.
- VI. **“Head of the Institution”** means the Principal of the College/Institution.

- VII. **“Head of the Department”** means Head of the Department concerned.
- VIII. **“Controller of Examinations”** means the authority of the College, who is responsible for all activities of the Examinations.
- IX. **“College”** means Sri Krishna College of Engineering and Technology (Autonomous).
- X. **“Regulation”** means a manuscript that contains the principles and standards designed to control or govern the conduct or provide direction at a more detailed level.
- XI. **“DAB”** represents the Department Advisory Board.
- XII. **“PAC”** represents the Programme Assessment Committee.
- XIII. **“Choice Based Credit System (CBCS)”**: The CBCS provides choice for students to select from the prescribed courses (elective or soft skill courses).
- XIV. **“Credit”**: A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or Tutorial) or two hours of practical work/field work per week.
- XV. **“Grade Point”**: It is a numerical weight allotted to each letter grade on a 10 Point scale.
- XVI. **“Semester Grade Point Average (SGPA)”**: It is a measure of performance of work done in a semester. It is the ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.
- XVII. **“Cumulative Grade Point Average (CGPA)”**: It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.

- XVIII. **“Performance Grade Point Average (PGPA)”**: It is a measure of overall cumulative performance of a student over 1 to 7 semesters. The PGPA is the combination of total performance points secured by a student in academic and skill enhancement courses/activities during 1 to 7 semesters.
- XIX. **“Mandatory Courses”**: means courses offered by the college/department to provide basic knowledge to students on various aspects of the country, constitution, environment consciousness, and social awareness.
- XX. **Induction Programme**  
Induction Programme is mandatory for the students pursuing the Undergraduate Programme.
- XXI. **“Capstone Model”**: means the components of internal assessment.
- XXII. **“CIA”**: Continuous Internal Assessment
- XXIII. **“ESE”**: End Semester Examination
- XXIV. **“Semester”**: means a term of study consisting of a minimum of 90 working days (including examinations), with seven ‘CONTACT HOURS’ per day. The semester scheduled between June and December shall be called ‘Odd Semester’ (I, III, V, VII), and that scheduled between January and May, shall be called ‘Even Semester’ (II, IV, VI, VIII).
- XXV. **“Contact Hours”**: means duration of Lecture, Tutorial, Practical or Project Work, as applicable.
- XXVI. **“Credit”**: means the weightage assigned to a particular course based on the conduct period to teach the prescribed syllabus. One credit is allocated to 15 contact hours for theory and 30 contact hours for practical.
- XXVII. **“Faculty”**: means a group of allied programmes.

## 1.1 COMMITTEES

### 1.1.1 Online Course Evaluation Committee (OCEC)

For the courses recommended by the department for the purpose of the credit transfer, the committee comprising the following members shall be formed by the respective Head of the Departments.

- a) NPTEL Course mentor
- b) Senior faculty of the department concerned
- c) Head of the Departments
- d) Controller of Examinations

### 1.1.2 Internship Evaluation Committee (IEC)

For the internships undergone by the students, the committee comprising the following members shall be formed by the respective Head of the Departments.

- a) Placement Coordinator
- b) Year Coordinators/HoD
- c) Mentor of the Student
- d) Class Coordinator
- e) Senior Faculty Member

## 2. ADMISSION ELIGIBILITY CRITERIA

### 2.1 FIRST SEMESTER ADMISSION

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

- (i) Should have passed the Higher Secondary Examinations of (10+2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu and AICTE or authority accepted by the Syndicate of Anna University as equivalent thereto. They should also satisfy other eligibility rules as prescribed

by the Anna University and Directorate of Technical Education, Government of Tamil Nadu, Chennai from time to time.

(OR)

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

## **2.2 LATERAL ENTRY ADMISSION**

- (i) 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. in the branch corresponding to the branch of study.

(OR)

- (ii) 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. Such candidates shall undergo two additional Engineering subject(s) in the third and fourth semesters as prescribed by the Board of Studies.

## **2.3 MULTIPLE ENTRY/MULTIPLE EXIT**

This Clause is applicable as per the notification of the affiliating University.

## **2.4. ADMISSION THROUGH TRANSFER FROM OTHER INSTITUTIONS**

- (i) The candidates who possess an admission in other engineering colleges affiliated to Anna University shall be admitted into the corresponding branch of study. However, the admission needs to be approved by the DOTE and Anna university.
- (ii) These candidates are required to fulfil the degree requirement as per the regulations R2025 and changes made thereof in respect of this clause.

## **2.5. ADMISSION DOCUMENTS**

- (i) All students admitted provisionally or otherwise to any programme shall submit original Transfer Certificate, copies of their mark sheets, Photo ID proof, etc. of the qualifying examination and other documents at the time of admission or by the last date as prescribed by the institution.
- (ii) The admission of a student who fails to submit the prescribed documents by the specified date or fails to meet other stipulated requirement(s) may be cancelled by the institution. The institution may also cancel the admission of a student at a later time if it is found that the student was unfit at the time of admission or had furnished some false information/ certification or suppressed relevant information while seeking admission to the institution.

## **3. UG PROGRAMMES**

The details of UG and Integrated Programmes with their respective branches approved by Anna University Chennai and All India Council for Technical Education (AICTE), New Delhi are listed as follows:

**Table 3.1: LIST OF FOUR YEAR UG PROGRAMMES & FIVE YEAR INTEGRATED COURSES OFFERED**

<b>Programme</b>	<b>Branch</b>
B.E.	Civil Engineering
B.E.	Computer Science and Engineering
B.E.	Computer Science and Engineering (Cyber Security)
B.E.	Computer Science and Engineering (Internet of Things)
B.E.	Computer Science and Engineering (Artificial Intelligence and Machine Learning)
B.E.	Electrical and Electronics Engineering
B.E.	Electronics and Communication Engineering
B.E.	Mechatronics Engineering
B.E.	Mechanical Engineering
B.Tech	Artificial Intelligence and Data Science
B.Tech	Computer Science and Business Systems
B. Tech	Information Technology
M.Tech	Computer Science and Engineering (5 Years)

## **4. STRUCTURE OF PROGRAMMES**

### **4.1 Curriculum**

Every Programme has a prescribed structure which, in general terms, is known as the 'Curriculum' that prescribes all the courses / labs / other requirements for the award of degree and sets out the nominal sequence semester wise.

### **4.2 Programme Duration**

- (i) A student admitted with HSC qualification (10 + 2) is expected to complete the B.E./B. Tech., programme in a minimum duration of FOUR years (Eight

Semesters). The maximum permissible time of the B.E./B. Tech. is SEVEN years, within which the student is expected to complete all the requirements of the curriculum for the programme.

- (ii) A Student admitted directly to second year (Lateral entry) is expected to complete the B.E./B. Tech., programme in a minimum duration of THREE years (Six Semesters). The maximum permissible time of the B.E., / B. Tech. is SIX years, within which the student is expected to complete all the requirements of the curriculum for the programme.
- (iii) A student admitted with HSC qualification (10 + 2) is expected to complete the M.Tech., programme in a minimum duration of FIVE years (Ten Semesters). The maximum permissible time of the M. Tech. is EIGHT years, within which the student is expected to complete all the requirements of the curriculum for the programme.

### 4.3 Categorization of Courses

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

- i. **Humanities, Social Sciences and Management Courses (HSMC)** courses include Technical English, Tamil, Universal Human Values, Engineering Ethics, Communication skills, Environmental Science and Engineering.
- ii. **Basic Science Courses (BSC)** courses include Mathematics, Physics, Chemistry, etc.
- iii. **Engineering Sciences Courses (ESC)** courses include Engineering practices, Engineering Graphics, Basics of Electrical/ Electronics/ Mechanical/ Computer Engineering and Instrumentation etc.
- iv. **Professional Core Courses (PCC)** courses include the core courses relevant to the chosen

- specialization/branch.
- v. **Professional Elective Courses (PEC)** courses include the elective courses relevant to the chosen specialization/branch.
  - vi. **Open Elective Courses (OEC)** courses include the courses from other branches which a student can choose from the list specified in the curriculum of B.E./B.Tech. Programmes.
  - vii. **Emerging Elective Courses (EEC)** courses include the latest advancements in various fields of engineering and technology.
  - viii. **Self Learning Courses (SLC)** courses to be selected by the students allowing them to be interacting with global network of faculty, peers, and industry experts from anywhere in the world, that facilitates developing an aptitude for life-long learning.
  - ix. **Laboratory** includes practical courses relevant to the chosen specialization/branch with Value Virtual Lab experiments (content beyond syllabus)
  - x. **Theory with Laboratory Courses** include the core courses with laboratory components relevant to the chosen specialization/branch with Value Virtual Lab experiments in Laboratory components.
  - xi. **Project Courses** include Idea Engineering, Innovation Laboratory (Idea Validation/prototype development/ Project Development, case study, Industrial based topics in the chosen field of specialization.
  - xii. **Industry Connected Courses (IEC)** includes the courses handled by both industry experts and Subject Matter Experts (SME).
  - xiii. **Talent Enhancement Courses (TEC)** includes Seminar, Case Study and Industrial/Practical Training.
  - xiv. **Skill Enhancement Courses (SEC):** Professional Practices, Industry Skill Enabling training & tests.
  - xv. **Mandatory Non-credit Courses (MC)** exposes the

students to courses such as Induction Programme, Environmental Sciences, Constitution of India, Soft Skills.

**Table 4.1 CATEGORY OF COURSES**

Sl. No.	Category of Courses	Credits	Remarks
1	Humanities, Social Sciences and Management Courses (HSMC)	8 - 11	Courses include Technical English, Tamil, Universal Human Values, Engineering Ethics, Communication skills, Environmental Science and Engineering.
2	Basic Sciences Courses (BSC)	15 - 19	Courses include Mathematics, Physics, and Chemistry
3	Engineering Sciences Courses (ESC)	20 - 30	courses include Engineering practices, Engineering Graphics, Basics of Electrical/ Electronics/ Mechanical/ Computer Engineering, etc.
4	Professional Core Courses (PCC)	59 - 77	courses include the core courses relevant to the chosen specialization/branch.
5	Professional Elective Courses (PEC)	15-18	Courses include the elective courses relevant to the chosen specialization/branch.
6	Open Electives (OEC) / Emerging Elective Courses (EEC)	9 - 12	Courses relevant to other technical and /or emerging subjects
7	Employability Enhancement Skills (Project Work (PW) / Internships)	18 -21	Students undertake (Industry/Research oriented) projects to do analysis, design, fabrication, experiments in their chosen field of study. It includes Mini project, Field Training and Internship for 28 Days.
8	Mandatory Courses (MC)	-	Courses in which the student shall have knowledge before the completion of the programme including languages, Ethics, Environmental Science and Engineering

#### 4.4 PERSONALITY AND CHARACTER DEVELOPMENT

All students shall enroll, on admission, in any one of the personality and character development programmes which are listed below. The students shall undergo training for the specified number of hours as specified in the relevant programmes (50/100 hours and/or attend a camp as applicable). The training shall include classes on hygiene and health awareness and also training in first- aid too.

- (a) National Cadet Corps (NCC) will have about 20 parades.
- (b) National Service Scheme (NSS) will have social service activities in and around the College/Institution.
- (c) National Sports Organization (NSO) will have sports, Games, Drills and Physical exercises.
- (d) Youth Red Cross (YRC) will have activities related to social services in and around College/Institutions. While the training activities will normally be during weekends, the camp will normally be during vacation period.
- (e) Sustainable Development Goals – Activity Programme Points In line with AICTE activity point programme, the following activities are included to the students and they need to fulfil the requirements for obtaining their degrees. These activities may be carried out by the students in teams. AICTE recommends 300 to 400 hours of activity during the entire programme of study. Hence, a student shall perform the activity for a duration of 75 to 100 hours in a year (2 semesters). Here 40-45 hours is considered as 1 week. This activity has to be carried under the nomenclature SDG Plan. These activities shall be coordinated by NSS/NCC/YRC/SDG/ Sports coordinators of the Institution.

**Following are the suggested activities as listed by AICTE (APP):**

1. Prepare and implement a plan to create local job opportunities.
2. Prepare and implement a plan to improve education quality in villages.
3. Prepare an action oriented Detailed Project Report (DPR) for doubling the village Income.
4. Developing a sustainable water management system.
5. Prepare and implement a plan to improve the health parameters of villagers.
6. Developing and implementing low cost sanitation facilities.
7. Prepare and implement a plan to promote local tourism through innovative approaches.
8. Implement/develop technology solutions which will improve quality of life.
9. Prepare and implement solutions for energy conservation.
10. Prepare and implement a plan to skill village youth and provide employment.
11. Develop localized techniques for reduction in construction cost.
12. Prepare and implement a plan for sustainable growth of the village.
13. Setting up an information imparting club for women leading to contribution in social and economic issues.
14. Developing and managing an efficient garbage disposal system.
15. Contribution to any national level initiative of Government of India, for e.g. Digital India/Skill India/Swachh Bharat Internships etc.,

**Club Activities:** Every student who is admitted to the UG programme shall join in the club activities as per their choice. It is mandatory for the student to enroll themselves in at least two clubs. Activities they perform in their club carries weightage in their continuous assessment as per the clubs established in the college. Apart from the clubs, the students shall enroll for Professional Societies as per their choice and branch of study.

**Green Campus:** The institution is committed to contribute towards the implementation of Green Campus as part of SDG. Under this scheme, two major activities have to be carried out by the students. Every student who is admitted to this institution will volunteer himself/herself in these two activities (i) Waste management (ii) Rain water harvesting.

#### 4.5 MANDATORY 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 the successful completion of the Induction Programme.
- The students should undergo a mandatory three weeks induction programme comprising of yoga class, nurturing

various human traits like trust, commitment, gratitude, care, humanity, responsibility, dedication, respect, self-confidence, creativity, gratitude, happiness, affection etc., universal human values, proficiency modules, lectures by eminent people, visits to local areas and familiarization to department/branch and innovations immediately after the college commences for the I year.

#### 4.6 NUMBER OF COURSES PER SEMESTER

The curriculum in each semester shall normally have a blend of theory courses, theory with Laboratory components not exceeding 7 courses and Laboratory courses, Laboratory with theory components and Employability Enhancement Skills Course(s) not exceeding 5 courses. However, the total number of courses per semester shall not exceed 12 courses.

#### 4.7 CREDIT ASSIGNMENT

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

**Table 4.3: CREDIT ASSIGNMENT**

<b>CONTACT PERIOD PER WEEK</b>	<b>CREDITS</b>
One Lecture Hour	1
One Tutorial Hour	1
One Laboratory Hour	0.5
One Talent Enhancement Courses (TEC) Periods - courses like Seminar / Project Work / Case study / etc.	0.5

#### 4.8 INDUSTRIAL TRAINING/INTERNSHIP

The students shall undergo Industrial training for a period as specified (vide clause 4.8.1) during summer/winter vacation. In this case the training has to be undergone continuously for a period of at least 28 days in industrial organization with minimum period of 7 days in an organization.

The students shall undergo Internship at Research organization/ University after due approval from the Principal for the period prescribed in the curriculum during summer/winter vacation, in lieu of Industrial training.

#### **4.8.1 Internship Duration and Academic Credentials**

The following framework is proposed to give academic credit for the internship undergone by the students as part of the programme.

- One week equals 40 hours of internship.
- A mandatory 2 credits of Internship may be counted for the award of the degree.
- 1 credit is equivalent to a minimum 14 days of internship.
- Internships may be full-time or part-time; they are full-time in the summer vacation and part-time during the academic session.

#### **4.8.2 Training and Placement Cell (Skill Enhancement)**

All the students joining the institution shall undergo training to enhance their industry readiness skill. This activity is taken care of by the Training and Placement Cell of the institution. Under this Category every student shall have a minimum of exclusive 30 hours of training per semester to keep them industry ready at the end of the programme of study. This training starts from the 1st semester and it continues till the end of 7th semester. The students will be evaluated through online tests in every semester and their grades will be awarded according to their performance in the test. Based on the performance in these tests each student will be awarded the Performance Grade Point Average (PGPA). Thus, a student can earn 1 performance point every semester up to 7th semester (A total of 7 performance points).

#### **4.9 INDUSTRY/ FIELD/ FACTORY VISIT**

Every student is required to go for at least one Industry/ Field/ Factory visit every year starting from the Second year of the

Programme. The Heads of Departments shall ensure that necessary arrangements are made in this regard.

#### 4.10 ONLINE COURSES

Students are permitted to do online courses in the approved agencies. The list of agencies may be approved in the respective Board of Studies (which are provided with a certificate) with the recommendations of the respective DAB. Students shall earn a minimum of six credits through online courses during the entire period of study.

**4.11 a. SWAYAM NPTEL:** Students admitted in the institution are encouraged to do at least one online course in the approved agencies in each semester. ONE credit is assigned to 'SWAYAM / NPTEL' courses for every 'FOUR WEEKS / EIGHT WEEKS / TWELVE WEEKS' duration as follows.

**Table: 4.4 NPTEL Course Credit**

S. No.	Number of Weeks	Number of Credits
1	12 Weeks	3
2	8 Weeks	2
3	4 Weeks	1

**Table 4.5 Credit Transfer**

(Mapping of Marks Scored in NPTEL Course and Credit Earned)

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

#### **4.12 PROJECT WORK**

Every student shall do a project in the field of his/her interest in guidance with a faculty Supervisor of his/her department and an internal guide from inter department based on competency matrix as a part of his/her partial fulfilment of getting the degree. The project work shall be carried out in house or in any industry.

##### **a. In-house projects**

Students shall initiate in-house projects with idea generation (Idea Engineering Lab-1 & II) during the I Semester and II Semester, followed by the idea validation (Innovation design Laboratory I & Innovation design Laboratory II) during the III and IV semester, engage in prototype development (Prototype development Laboratory I & II) during the V and VI semesters and complete the product development (Project work Phase I & II) during the VII and VIII semesters. Each project will have a designated faculty supervisor and an internal guide will be appointed based on the competency from outside the department. An external guide will be assigned from the industry if required. For UG programmes, students not exceeding four members will form the group to do the project work.

##### **b. Field projects**

For students who wish to do industry/field projects: In addition to clause 4.12 (a), the students who satisfy the following conditions are permitted to carry out their project work as field projects. There shall be an external guide (person working in the chosen industry/company) in addition to the guide assigned in the institution.

#### **4.13 MEDIUM OF INSTRUCTION**

The medium of instruction is ENGLISH for all courses (except Heritage of Tamil and Tamils and Technology), examinations, seminar presentations and project/thesis/dissertation reports (except foreign

language courses and Indian Knowledge system courses).

- The blend of all the above different courses, Co-curricular and extra-curricular activities shall be so designed that, the students at the end of the programme would have been trained not only for his/her relevant professional field but also would have developed as a social conscious human professional.

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

- 5.1** A student is expected to complete the B.E./B.Tech. Programme in 8 semesters (four academic years) but in any case, not more than 14 Semesters for HSC (or equivalent) candidates and not more than 12 semesters for Lateral Entry Candidates.
- 5.2** For M.Tech Programme in 10 semesters
- 5.3** Each semester shall normally consist of 90 working days. The Head of the Institution 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.
- 5.4** The Department may conduct additional classes for improvement, special coaching, conduct model tests etc., over and above the specified periods, with due approval from the Head of the Institution.
- 5.5** 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 (vide clause 18) in order that he/she may be eligible for the award of the degree (vide clause 16).

## 6. COURSE REGISTRATION

**The courses that a student registers in a semester (vide clause 6.6.2), includes**

Courses of the current semester (including Mandatory non - credit courses)

- i. Course(s) in which he/she has not been permitted to appear for the end semester examinations for want of the minimum required attendance, if such courses are offered in that semester (vide clause 7.3)
- ii. Course(s) in which he/she has failed and required to reappear for the end semester examinations, carrying forward the continuous assessment marks earned in the last attempt.
- iii. Course(s) in which he/she has failed and required to reappear for the Continuous Assessment Tests and the End Semester Examination, if such courses are offered in that semester.
- iv. Professional or Open elective course(s) opted by the students in lieu of courses in which he/she has failed, if the courses are offered in that semester or the same elective course chosen earlier by the student.
- v. Students who wish to register for a field project shall register and complete the theory courses listed in the eighth semester during their sixth and seventh semesters in addition to their regular courses pertaining to the respective semesters subject to the fulfillment of the following conditions.
  - (i) The student should not have any backlog of arrear courses.
  - (ii) The student should have a CGPA of 7.5 and above
- vi. Any other course(s) the student wishes to register as per norms (vide clause 4.8, 4.10 and 4.11).

## **6.1 COURSE REGISTRATION CONFIRMATION**

Every student shall enroll for the course of the succeeding semester before the end of the current semester. However, the student shall confirm the enrolment by registering for the courses within the first five working days after the commencement of the concerned semester.

## **6.2 ELECTIVE COURSE MINIMUM STRENGTH**

Elective courses shall be offered by the department only if a minimum of 30 students register for that course, subject to the approval of the Head of the Department.

## **6.3 COURSE ENROLMENT RULES**

After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Assessment marks and appear for the End Semester Examinations.

- 6.3.1** Each student on admission shall register for all the courses prescribed in the curriculum for the first semester of study.
- 6.3.2** The enrolment for all the courses of Semester II will commence 10 working days prior to the last working day of Semester I. The student shall confirm the enrolment by registering for the courses within the first five working days after the commencement of Semester II.
- 6.3.3** The enrolment for the courses of the Semesters III to VIII will commence 10 working days prior to the last working day of the preceding semester. The student shall enroll for the courses with the guidance of the student's Faculty Mentor. If the student wishes to add or drop courses, he/she may add or drop courses (vide clause 6.6) within five working days after the commencement of the concerned semester and complete the registration process duly authorized by the Faculty Mentor.

- 6.3.4** Students having a total of 45 and above credits as their (backlog) arrear courses are not permitted to register for the subsequent semester.

#### **6.4 REGISTRATION FOR REAPPEARANCE**

- 6.4.1** If a student fails to secure a pass in any course(s), he/she has to register for reappearance for those courses in a subsequent semester, till he/she secures a pass in such courses. In such a case he/she can carry forward the continuous assessment marks earned in the last attempt, or can avail the option of reappearing in Continuous Assessment Tests for improving the continuous Assessment marks and appear for the end semester examination. This is subject to the fulfillment of clause 14.3. However, the attendance requirement is not compulsory for such courses.
- 6.4.2** If the theory course, in which a student has failed in a professional elective/open elective, either he/she may register for the same elective course, or any other professional elective/open elective respectively if offered in that semester. In such a case he/she can carry forward the continuous assessment marks earned in the last attempt if the student registers for the same elective course else student has to attend the newly opted course and obtain the continuous assessment marks for the new elective. This is subject to the fulfillment of clause 14.3.
- 6.4.3** If a student fails to secure a pass in any online course recommended for credit transfer by the department concerned, he/she has to register for reappearance for that course in the subsequent semester under the same online platform.
- 6.4.4** If a student fails to secure a pass in any mandatory non - credit course(s), he/she has to register for reappearance for that course in the subsequent semester.
- 6.4.5** If a student is prevented from writing the end semester examination of a course due to lack of attendance, the

student has to register for that course again, when offered next, attend the classes and fulfill the attendance requirements as per clause 7. If the course, in which the student has lack of attendance, is a Professional Elective or an Open Elective, the student may register for the same or any other Professional Elective or Open Elective course respectively in the subsequent semesters when offered next.

## **6.5 FLEXIBILITY TO ADD OR DROP COURSES**

- 6.5.1** 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, if a student wishes, then he/she is also permitted to register for courses offered in a higher semester (starting from fifth semester), in advance, to earn more than the total number of credits prescribed in the current semester in the curriculum of the student's programme (subject to maximum of 36 credits) with the approval of Principal.
- 6.5.2** Similarly, a student has the option of dropping current semester courses limited to 2 courses, subject to a maximum of 6 credits based on certain genuine health reasons. However, he/she has to undergo these dropped courses in the subsequent semester when offered next, to fulfill the requirements of the degree programme.

## **7. ATTENDANCE REQUIREMENTS FOR COMPLETION OF THE 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, he/she shall secure not less than 75% (after rounding off to the nearest integer) of overall attendance as calculated as per Anna University Norms.

- 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 Principal. The same shall be forwarded to the Controller of Examinations for record purposes. This concession can be availed only for any four semesters during the entire course of the study.
- 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.
- 7.4** A student who has not satisfied the attendance requirement as per clauses from 7.1 to 7.3 & 5.3, but having at least 50% of attendance in every course of that semester can appeal to the Head of the Institution or his nominee, for proceeding to the next higher semester. The Head of the Institution will appoint a committee for examining these appeals. Based on the recommendations of the committee, the Head of the Institution will take a final decision on the appeal by the student.

## **8. FACULTY MENTOR AND CLASS COORDINATOR**

### **8.1 FACULTY MENTOR**

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

Advisor shall advise the students in registering and reappearing of courses, authorize the process, monitor their attendance and progress and counsel them periodically. The Faculty Mentor also discusses with or informs the parents about the progress/performance of the students concerned. The responsibilities for the faculty advisor shall be:

- To inform the students about the various facilities and activities available to enhance their curricular and co-curricular activities.
- To guide the student on enrolment and registration of the courses.
- To authorize the final registration of the courses at the beginning of each semester.
- To monitor the academic and general performance of the students including attendance and to counsel them accordingly.

## **8.2 CLASS COORDINATOR**

There shall be a class coordinator for each class. He/She will be appointed by the HoD of the department concerned. The class coordinator is the ex-officio member of the class committee. The responsibilities for the class coordinator 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 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

Every class shall have a class committee consisting of teachers of the class concerned, student representatives (usually 2 boys and 2 girls) 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 classroom and in the laboratories.
- Clarifying the regulations of the degree programme and the details of rules therein particularly (clause 5 and 7) which should be displayed on college and Department Notice-Board.
- 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 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 slow learners.
- The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Head of the Institution.

- The class committee shall be constituted within the first week of each semester.
- The Chairperson of the class committee may invite the Class adviser(s) and the Head of the Department to the class committee meeting. The Head of the Institution may participate in any class committee of the institution.
- The chairperson is required to prepare the minutes of every meeting, submit the same to the Head of the Institution within two days of the meeting and arrange to circulate 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.
- 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 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 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** For course material repository, one of the Course Coordinators may be designated as Course Moderator, to check and validate the materials submitted by the Course Content Creators and Course Coordinators.

## 11. SYSTEM OF EXAMINATION

**11.1** PERFORMANCE IN EACH COURSE OF STUDY SHALL BE EVALUATED BASED ON

- (i) Continuous Internal Assessment (CIA) throughout the semester. and
- (ii) End Semester Examination (ESE) at the end of the semester.

**Table 11.1: ASSESSMENT WEIGHTAGE TABULATION**

S. No.	Course	Continuous Internal Assessment	End Semester Examinations	Total Marks
1	Theory Courses	40	60	100
2	Theory with Laboratory Courses	50	50	100
3	Laboratory Courses	60	40	100
4	Mini-Project	60	40	100
5	Project Work	60	40	100
6	Industrial Training	100	-	100
7	Mandatory Courses (MC)	100	-	100

8	Employability Enhancement Skill Courses (EEC)	100	-	100
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**11.2** The End Semester Examination (Theory, Laboratory, Theory with Laboratory) 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 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, the supervisor of the project group and an internal examiner.

**11.4** For the ESE in both theory and practical courses including project work, wherever necessary the internal and external examiners shall be appointed by the Controller of Examinations.

### **11.5 THEORY WITH LABORATORY COMPONENTS**

All the courses under this category will have two components, basically theory with five modules of the syllabus.

### **11.6 LABORATORY WITH THEORY COMPONENTS**

All the courses under this category will have two components, basically laboratory experiments with 10 to 12 exercises with Value Virtual Lab experiments.

### **11.7 ONLINE COURSE**

For all the courses recommended by the department concerned for credit transfer category evaluation shall be 40:60 basis.

## 12. PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

For all courses the continuous assessment shall be for a maximum of 40 marks. The above continuous assessment shall be awarded as per the procedure given below:

### 12.1 (a) Theory Courses

For all the courses offered under this Category, the continuous assessment shall be done as follows:

- The maximum marks for internal assessment shall be 40 in case of theory courses. The criteria for arriving at the Internal Assessment marks of 40 are as follows:
- There will be two continuous assessment tests of 50 marks each conducted at regular intervals and a model examination for a maximum of 100 marks. At the end of the course, it will be considered for internal assessment with a weightage of 40 marks.

**Table 12.1 THEORY COURSES ASSESSMENT PATTERN**

Assessment	Portions / Units	Duration	Maximum Marks for Conducting Examinations	Converted Maximum Marks	Maximum CIA Marks	Weight age
Continuous Internal Assessment-1	1.5	1 Hour 30 Minutes	50	100	CIA 1 – 30%	60
Continuous Internal Assessment-2	1.5	1 Hour 30 Minutes	50	100	CIA 2 – 30%	
Model Examination	5	3 Hours	100	100	Model Exam 40%	
Other Assessment		Unique Assignment (Individual Specific Max 2 numbers) <a href="#">Note: - Minimum One per Course</a>			10	40
		Multiple Choice Questions – Technical Quiz (Online Assessment) <a href="#">Note: - Minimum One per Course</a>			10	
		Mini Projects / Case Study Presentation/ Seminar / Field Visit (With Reports) <a href="#">Note: - Minimum One per Course</a>			10	
		Subject Specific - Components like Online Certifications (NPTEL / IIT Bombay Spoken Tutorials / Coursera / ICT Learnathon / Infosys Spring			10	

	Board / Udemy Any <b>other valid certificates)</b> <b>OR</b> Any Subject specific activities like Tutorial, Coding Exercises, Group Discussion, Technical Content Writing etc <a href="#">Note: - Minimum One per Course</a>		
	<b>Total Marks</b>		<b>40 Marks</b>

### (b) Laboratory Courses

For all the courses offered under this Category, the continuous assessment shall be done as follows:

The maximum marks for internal assessment shall be 60 in case of practical courses. The criteria for arriving at the Internal Assessment marks of 60 are as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the two cycle test. The cycle test marks out of 25, will be weighted to 15 and completion of experiments 75 marks will be weighted to 45 marks. These two marks will be added to get internal marks out of 60.

**Table 12.2 LABORATORY COURSES ASSESSMENT PATTERN**

<b>Lab Assessment</b>	Evaluation of Laboratory Observation, Records based on Rubrics	75%	100% (60 Marks)
	Model Examination	25%	
<b>Total Continuous Internal Assessment Marks shall be converted to 60 Marks</b>			

### (c) Theory with Laboratory Courses

Weightage of Continuous Internal Assessment and End Semester Examination marks will be 50% each. The distribution of marks for the theory and laboratory components in the Continuous Internal Assessments and

End Semester Examination for different types of courses are provided in the table.

**Table 12.3 THEORY COURSE WITH LABORATORY COURSES ASSESSMENT PATTERN**

L	T	P	C	Continuous Internal Assessment*	End Semester Examination
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%)

#### (d) Mandatory Non-credit Courses

- For every mandatory non-credit course, there shall be one assessment at the end of the semester carrying 100 marks.
- Students securing more than 50% shall be declared Passed. However, they will be Categorized into two viz Completed, Not Completed.

## 12.2 PROJECT WORK

Project work may be allotted to a single student or to a group of students not exceeding 4 per group.

- The Head of the Department concerned shall constitute a review committee for the monitoring and evaluation of the project works carried out by the students. The committee shall be formed domain wise also as the case may be. There shall be three reviews during the semester conducted by the review committee. The total marks obtained in the three reviews shall be weighted to 50 marks and rounded to the nearest integer as per clause 12.2.1.

**12.2.1** The thesis and its evaluation shall carry a maximum of 25 marks. The thesis shall be submitted as per the approved guidelines given by the Board of Studies. The oral viva-voce examination shall carry 25 marks. Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.

**TABLE 12.5 PROJECT WORK**

Internal (60 Marks)			End Semester Examinations (40 Marks)				
Review	Review	Review	Thesis Submission/ Evaluation (20)			Viva- voce (20)	
I	II	III	Supervisor	Internal	External	Internal	External
10	20	30	5	5	10	10	10

**12.2.2** If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-enroll for the same in a subsequent semester.

### **12.3 ASSESSMENT FOR ONLINE COURSES**

Students shall earn a minimum of three credits through online courses during the entire period of study. The approved list of online courses will be provided by the respective Board of Studies from time to time. Subject to the fulfillment of clause 4.10.

#### **12.2.3 Online course credits**

A maximum of four credits earned through online courses shall be considered for the purpose of credit transfer.

**12.2.4** However for students opting courses under clause 16.1 for the purpose of honors degree shall be considered for additional credits as per the recommendations of HoD and the

approval of Head of Institution.

The online course of 45 hrs. duration shall be considered as equivalent to a three credit course. The online course of 30 hrs. duration shall be considered as equivalent to a two credit course. The online course of 15 hrs. duration shall be considered as equivalent to a one credit course. The credit transfer shall be done

based on the recommendations of the online course evaluation committee of the departments concerned. The approved list of online courses will be provided by the Office of the Principal from time to time.

- (a) For the courses recommended for the purpose of credit transfer students shall choose the online course hours as per the curriculum courses recommended by the respective departments.
- (b) For courses recommended for the purpose of credit transfer, three continuous assessment tests shall be conducted (as per vide clause 12.1a). The average of these three tests shall be weighted to 40% and considered as internal marks for the courses concerned. The marks obtained through the online (NPTEL) platform shall be weighted for 60% and considered as end semester examination marks (ESE).
- (c) Regarding the assessment of Self Study Course - the faculty member approved by the Head of the Department shall be responsible for periodic monitoring and evaluation of the course. The course shall be evaluated through Continuous Assessment (as decided by the Principal) and End Semester Examinations. The evaluation methodology shall be the same as that of a theory course. A committee consisting of the Head of the Department, the Faculty Member and another senior Faculty member nominated by the Head of the Department shall assign the grades to the students based on their relative performance.
- (d) Two Courses on 'Tamil and Technology' and 'Heritage of

Tamils' shall be offered to the students for appreciation cultural diversity, promoting inclusivity in the globalized world. Students shall undergo a course on 'Universal Human Values' and shall be offered to all the students as per the curriculum of the respective UG Programme.

### **12.3 INTIMATION OF CLASS INTERNAL MARKS**

Class internal marks approved by the Head of the Institution shall be intimated to the students / parents by the respective HoDs within 5 working days after the last internal exam.

### **12.4 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 signature and date after due verification. The record of attendance should be periodically 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. The inspection team appointed by the Principal may verify the records of attendance and assessment of both current and previous semesters.

### **12.5 CONDUCT OF ACADEMIC AUDIT**

Every academic department shall 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 innovative designs project submitted by each student and assessment test question paper and answer script. Reports of industrial training/internship shall also be maintained. For laboratory courses students' record and cycle test report 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 institution.

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

**13.1** A candidate shall normally be permitted to appear for the ESE 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).

**13.2** Registration is mandatory for current semester examinations as well as for arrear examinations, failing which the candidate will not be permitted to move to the higher semester.

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

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

### **14. PASSING REQUIREMENTS**

**14.1** A candidate who secures not less than 50% of total marks prescribed for the course [Continuous Internal Assessment (CIA)

+ End semester examinations (ESE)] with a minimum of 45% of the marks prescribed for the end-semester examinations, shall be declared to have passed the course and acquired the relevant number of credits.

The applicable proportion of these marks is mentioned in Table 14.1.

**TABLE 14.1: PASSING REQUIREMENTS**

	<b>CIA minimum</b>	<b>ESE minimum</b>	<b>Overall Passing</b>
Theory	NIL	45% (27 out of 60 marks)	50 % (CIA and ESE together)
Practical	NIL	50% (25 out of 50 marks)	50 % (CIA and ESE together)
Project	NIL	50% (25 out of 50 marks)	50 % (CIA and ESE together)
Theory with Laboratory component	NIL	50% (25 out of 50 marks)	50 % (CIA and ESE together)
Online Course	NIL		50 % (CIA and ESE together)

**14.2** If a candidate fails to secure a pass in a particular course, it is mandatory that he/she shall register and reappear for the examination for that course during the subsequent semester when examination is conducted for that course. He/she should continue to register and reappear for the examinations in the failed subjects till he/she secures a pass.

**14.3** The internal assessment marks obtained by the candidate in the first appearance shall be retained and considered valid for next three attempts. From fourth attempt onwards, 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** The passing requirement for the courses which are assessed through internal assessments (EEC courses except project work), can be 50% of the internal assessment

(continuous assessment) marks.

**14.5** A student shall apply for review of the result in any subject(s), he/she can submit a review application to the CoE office along with the payment of prescribed fees. A committee consisting of the Head of the Department, concerned course instructor and a subject expert (Internal/External) nominated by the HoD will review and give its recommendations to the CoE. If the student secures any change in the grade the review fees will be refunded. Review is not permitted for laboratory course(s) and project work.

## **15. AWARD OF LETTER GRADES**

All assessments of a theory course will be evaluated on a relative marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying a certain number of points, will be awarded as per relative grading / absolute grading obtained by the candidate in each course as the case may.

### **15.1 RELATIVE GRADING**

For those students who have passed the course (Theory course / Theory cum laboratory courses), the relative grading shall be done provided that the strength of students who have met the passing requirements is greater than 30. The marks of those students who have passed only shall be input in the software developed for relative grading and computes the grade range for each course separately and awards the grade to each student.

### **15.2 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 Table 15.1. For the Project Work / Internship and Laboratory Courses, absolute grading procedure shall be followed as given in Table 15.1 irrespective of the number of students who have passed the course.

**TABLE 15.1: GRADE RANGE FOR ABSOLUTE GRADING**

Grades	O	A+	A	B+	B	C	U
Marks Range	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:

Letter Grade	Grade Points*
O (Outstanding)	10
A+ (Excellent)	9
A (Very good)	8
B+ (Good)	7
B (Average)	6
C (Satisfactory)	5
RA (Reappearance)	0
W (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". "RA" denotes the reappearance if the student has failed in that course. "W" denotes withdrawal from the exam for the particular course. The grades RA and W will figure both in the Marks Sheet as well as in the Result Sheet. In both cases the student has to earn Continuous Assessment marks and appear for the End Semester Examinations. If the grade W is given to the course, the attendance requirement need not be satisfied. If the grade RA is given to a core theory course, the attendance requirement need not be satisfied, but if the grade RA is given to a Laboratory Course/Project work/ Seminar and any other TE course, the attendance requirements (vide clause 7) should be satisfied.

For the extra-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS)/ National Sports Organization (NSO)/Youth Red Cross (YRC)/Unnat Bharat Abhiyan (UBA), a five point grading will appear in the mark sheet. Every student shall put in a minimum of 75% attendance in the training and attend the camp compulsorily. The training and camp shall be completed during the first year of the programme. However, for valid reasons, the Head of the Institution may permit a student to complete this requirement in the second year. A grade (as per clause 15.(i)) other than "RA" in the above extracurricular activities is compulsory for the award of the degree.

The grades for extra Curricular activities

1. Excellent
2. Very Good
3. Good
4. Fair

### 15.3 GRADE SHEET

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

- The college in which the candidate has studied
- The list of courses enrolled during the semester and the grade scored.
- The Grade Point Average (GPA) for the semester and
- The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards. GPA for a semester is the ratio of the sum of the products of the number of credits for courses acquired and the corresponding points to the sum of the number of credits for the courses acquired in the semester. CGPA will be calculated in a similar manner, considering all the courses registered from the first semester. RA grades will be excluded for calculating GPA and CGPA.

$$SGPA = \frac{\text{Sum of (Credits assigned * Grade points acquired in each subjects)}}{\text{Sum of Credits assigned to the subjects}}$$

CGPA will be calculated in a similar manner, considering all the subjects registered from semester

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

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

$GP_i$  is the point corresponding to the grade obtained for each  $i^{\text{th}}$  course,  $n$  is the number of all courses successfully cleared during the particular semester in the case of GPA and number of all courses successfully cleared during all the semesters in the case of CGPA.

## Formula for Calculating Percentage of Marks

$$\text{CGPA} \times 10 = \% \text{ OF MARKS}$$

The answer scripts of a student which are evaluated for awarding grades shall be retained by office of CoE for a period of one year from the date of publishing the End Semester results. After the mentioned period, any claim by the students related to answer scripts shall not be considered for any further action.

### 15.4 ELIGIBILITY FOR THE AWARD OF THE DEGREE

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

- i. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.
- ii. Successfully completed the programme requirements, appeared for the End-Semester examinations and passed all the courses prescribed in all the 8 semesters within a maximum period of 7 years and 6 years in the case of Lateral Entry) reckoned from the commencement of the first (third in the case of Lateral Entry) semester to which the candidate was admitted.
- iii. Successfully passed any additional courses prescribed by the Principal whenever readmitted under regulations R-2024 (vide clause 18.3)

- iv. Successfully completed the NCC/NSS/NSO/YRC/UBA requirements.
- v. No disciplinary action pending against the student.

## **16 CLASSIFICATION OF THE DEGREE AWARDED**

### **16.1.1 : B.E./B.Tech. (Honours)**

- A Student can opt for B.E./B.Tech. (Honours) at the end of the fourth semester of B.E./B.Tech. programme subject to the conditions prescribed by the Academic Council from time to time. In addition to the requirements specified for First Class with Distinction (vide clause 16.1.2), B.E./B.Tech. (Honours) students must earn a minimum of 18 additional (Professional Elective Category) credits as per the requirements specified in clause 12.4.1 subject to the satisfaction of clause 6.3.
- If a student decides not to opt for Honours, after completing a 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 footnote 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.

#### **(a) : B.E./B.Tech. (Honours) (Specialization in the same discipline)**

The students

- I. Should have earned additionally a minimum of 18 credits from a vertical of the same programme.
- II. Should have passed all the courses in the first attempt.
- III. Should have earned a minimum CGPA of 7.50 at the end of 4<sup>th</sup>

semester.

**(b): B.E./B.Tech. (Minor in other specialization)**

The students shall earn additionally a minimum of 18 credits in any one of the verticals of other B.E./B.Tech. programmes

The students

- I. Should have earned additionally a minimum of 18 credits from a vertical of the same programme.
- II. Should have passed all the courses at the end of 4<sup>th</sup> Semester.
- III. Should have earned a minimum CGPA of 7.50.

If a student decides not to opt for Minor, after completing a 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 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 mark sheet, however, they will not be considered for calculation of CGPA.

**16.1.2: 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 examinations due to lack of attendance in any of the courses.

### **16.1.3: 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 Six years.
- 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 six years and five years in the case of lateral entry) for award of First class
- Should have secured a CGPA of not less than 6.5.

### **16.1.4: Second Class:**

- All other students (not covered in clauses 16.1.2 and 16.1.3) who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in Second Class.
- A candidate 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 for the purpose of classification. (Subject to clause 17 and 18).

**TABLE 16.1: SUMMARY OF CLASSIFICATION OF DEGREE****Table 16.1.1: First class with distinction**

Degree (I)	Duration of programme (ii)	Duration permitted (iii)	Additional credits above the requirement of curriculum (iv)	CGP A (v)	Pass in (vi)	Break of study (vii)	Prevention due to lack of attendance	Withdrawal from writing end semester examination (viii)
B.E./B.Tech. (Regular)	4 Years	5 Years	-	8.50	First Attempt	One Year Authorized 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 Authorized break of Study included in the duration permitted (iii)	Not Permitted	Will not be considered as an attempt
B.E./B.Tech. (Honours) Specialisation in the same discipline	3/4 years (Lateral entry, Regular, respectively)	4/5 years (Lateral entry, Regular, respectively)	18 credits from any one vertical of the same programme	8.50	First Attempt	One Year Authorized break of Study included in the duration permitted (iii)	Not Permitted	Will not be considered as an attempt
B.E./B.Tech. (Honours)	3/4 years (Lateral entry, Regular, respectively)	4/5 years (Lateral entry, Regular, respectively)	18 credits from any one vertical of the same programme	8.50	First Attempt	One Year Authorized break of Study included in the duration permitted (iii)	Not Permitted	Will not be considered as an attempt
B.E./B.Tech. minor in other specialisation	3/4 years (Lateral entry, Regular, respectively)	4/5 years (Lateral entry, Regular, respectively)	18 credits from any one vertical of the same programme	8.50	First Attempt	One Year Authorized break of Study included in the duration permitted (iii)	Not Permitted	Will not be considered as an attempt

Table 16.1.2: First class

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 due to lack of attendance	Withdrawal from writing end semester examination (viii)
B.E./B.Tech (Regular)	4 Years	5 Years	-	6.50	-	One Year Authorized 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 Authorized break of Study included in the duration permitted (iii)	Included in the Duration Permitted (iii)	-
B.E./B.Tech (Honours) Specialisation in the same discipline	3/4 years (Lateral entry, Regular, respectively)	4/5 years (Lateral entry, Regular, respectively)	18 credits from any on vertical of the same programme	7.50	First Attempt	One Year Authorized break of Study included in the duration permitted (iii)	Not Permitted	Will not be considered as an attempt
B.E./B.Tech (Honours)	3/4 years (Lateral entry, Regular, respectively)	4/5 years (Lateral entry, Regular, respectively)	18 credits from any one vertical of the same programme	7.50	First Attempt	One Year Authorized break of Study included in the duration permitted (iii)	Not Permitted	Will not be considered as an attempt
B.E./B.Tech minor in other specialisation	3/4 years (Lateral entry, Regular, respectively)	4/5 years (Lateral entry, Regular, respectively)	18 credits from any one vertical of the Sam programme	6.50	-	One Year Authorized break of Study included in the duration permitted (iii)	Included in the Duration Permitted (iii)	-

## 16.2 TRANSPARENCY

- After the End Semester Examination, if the students need any clarification in the answer scripts or before applying for reevaluation. Students are permitted to apply for transparency.
- During transparency, domain specific faculty is assigned
- Answer scripts will be given to students in presence of domain specialized faculty
- After the transparency, if the students is willing to apply for reevaluation they are permitted to apply with reevaluation fee.

## 17 PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION

**17.1** A student may, for valid reasons, (medically unfit/unexpected family situations/sports approved by HoD, Physical Director and recommended by HoD for any other valid reason) be granted permission to withdraw from appearing for the end- semester examination in any course or courses in ANYONE of the semester examinations during the entire duration of the degree programme. The application shall be sent to Principal, through the Head of the Department with required documents.

**17.2** Withdrawal application is valid ONLY if the student is otherwise eligible to write the examination (Clause 7) and if it is made before the commencement of the END SEMESTER examination in that course or courses and recommended by the Head of the Department.

**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 (Clause 13) the course will figure both in the Marks Sheet as well as in the Result Sheet. Withdrawal essentially requires the student to re- register for the course/ courses and attend the supplementary or the end semester examination in the subsequent semester, when the examination is conducted.

The student has to register for the course, fulfill the attendance requirements (vide clause 7), earn continuous assessment marks and attend the end semester examination. However, withdrawal shall not be construed as an appearance for the eligibility of a candidate for First Class with Distinction and for First Class.

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 16.1.2 for the 4 year degree programme.

## **18 PROVISION FOR AUTHORISED BREAK OF STUDY**

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

**18.2** Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in an extraordinary situation the candidate may apply for additional break of study not exceeding another one year for break of study. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent

year, permission may be granted based on the merits of the case provided he/she applies to the Principal, 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 Student 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 Principal in the prescribed format through Head of the Institution duly forwarded by 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.
- 18.4** The authorized break of study would not be counted towards the duration specified for passing all the courses for the purpose of classification (vide Clause 16.1).
- 18.5** The total period for completion of the Programme reckoned from, the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.
- 18.6** If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1).

## **19. DISCIPLINE**

- 19.1** Every student is required to observe disciplined and decorous behaviour both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the College. The Head of Institution shall constitute a disciplinary committee consisting of the Head of Institution, Two Heads of Department of which

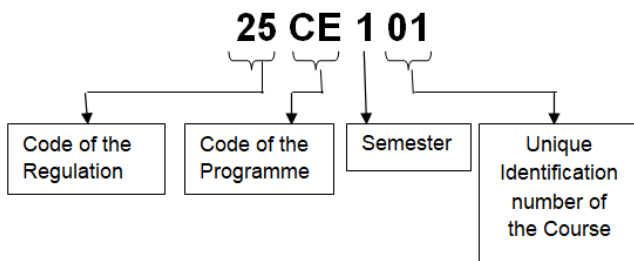
one should be from the faculty of the student, to enquire into acts of indiscipline.

- 19.2** If a student indulges in malpractice in any of the END SEMESTER/internal examination he/she shall be liable for punitive action as prescribed by the COLLEGE from time to time.

## 20. EXPLANATION OF COURSE CODE

**20.1** Each course offered by a department under Professional Core Courses Category is assigned with a course code consisting of two alphabets, followed by five numerals. First two alphabets denote the code of the Programme. First two numerals denote the code of the Regulation. Third numeral denotes 'Semester' and last two numerals denote the unique identification number of the course.

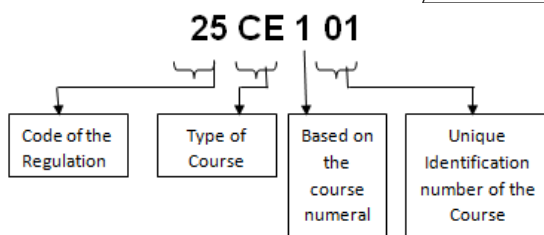
**20.2** For Example, in B.E., Civil Engineering Programme, a particular PCC offered in the first semester is denoted as



**20.3** For Professional Elective Courses offered by the Department, the third numeral denoting 'Semester' is designated as '9'.

**20.4** For Open Elective Courses offered by the Department, the third numeral denoting 'Semester' is designated as '0'.

**20.5** For Mandatory Courses, Employability Enhancement Skills and Value Added Courses offered by the Department, the third numeral denoting 'Semester' is designated as '1'.



Type of course with designated letters are given as follows:

EES – Employability Enhancement Skills, MC – Mandatory Courses, VA – Value Added Courses.

## 21. ACADEMIC CALENDER

The dates of all academic activities including those of course registration, first and the last days of classes, examinations, department activities, holidays, vacation are published in the Academic Calendar every semester. The academic calendar for each semester shall be available in the Institution website.

## 22. CLASS TIMINGS

The classes are usually scheduled between 08:45 AM to 04:35 PM with a lunch break from 12:50 PM to 01:50 PM. Additional classes shall be scheduled in the morning and evening hours at the convenience of the Course Instructor to the students opting for Honours / Minor Programmes. One Contact Hour is of 55-minute duration. While the regular classes are scheduled in a 6-day week, from Monday to Saturday. However, classes for Honours and Minors shall be scheduled, before or after working hours also.

## 23. PUBLICATION OF RESULTS

Publication of examination results shall be within 15 days from the date of completion of end semester examinations.

## 24. INDIAN KNOWLEDGE SYSTEM (IKS)

A separate stream on Indian knowledge system is proposed in R2025 curriculum in all the departments with atleast 4 choices (Department specific) and the students shall be offered as per UGC guidelines.

### 24.1 General Guidelines:

- Given the importance accorded in the NEP 2020 to rooting our curricula and pedagogy in the Indian context and in the corpus of Indian Knowledge System, every student enrolled in a UG or PG programme should be encouraged to take credit courses in IKS amounting in all to at least five per cent of the total mandated credits. It is envisioned that the interested students studying in UG and PG courses may be allowed to take a larger fraction of the total mandated credits in the fields of IKS.
  - At least 50% of the credits apportioned to the IKS should be related to the major discipline and should be accounted for the credits assigned to the major discipline.
  - Special care should be taken to ensure that the course materials for these IKS courses are based on authentic sources—such as source texts, historical accounts, inscriptions and other records, material and other evidence, and also rigorous sociological records of current practices of different communities.
  - The continuity of the Indian Knowledge Traditions from ancient times up to the relatively recent period of the eighteenth or nineteenth century must be emphasized in the design of the course content.

- Efforts must be made to highlight the characteristic features such as the objectives, methodology and core concepts of the Indian Knowledge Traditions, which distinguish them from other Knowledge Traditions of the world.
- Wherever possible, contemporary applications of the Indian Knowledge Traditions may be indicated.
- The medium of instruction for the IKS courses could be any of the Indian languages which have been approved as a medium of instruction in higher education, apart from English and Sanskrit.
- All the technical terms and citations from the Sanskrit sources should be given in the Devanagari script as well as in English transliteration for any course materials prepared in English.

#### **24.2 Guidelines for IKS Courses in UG Programmes:**

- All the students who are enrolled in the four-year UG programmes should be encouraged to take an adequate number of courses in IKS so that the total credits of the courses taken in IKS amount to at least five per cent of the total mandated credits. The students may be encouraged to take these courses, preferably during the first four semesters of the UG programme. At least half of these mandated credits should be in courses in disciplines which are part of IKS and are related to the major field of specialization that the student is pursuing in the UG programme. They will be included as a part of the total mandated credits that the student is expected to take in the major field of specialization. The rest of the mandated credits in IKS can be included as a part of the mandated Multidisciplinary courses that are to be taken by every student.

- All the students should take a Foundational Course in Indian Knowledge System, which is designed to present an overall introduction to all the streams of IKS relevant to the UG programme. The foundational IKS course should be broad-based and cover introductory material on all aspects. It would enable students to explore the most fundamental ideas that have shaped Indian Knowledge Traditions over the centuries. Brief outlines of a few Model Curricula that may be followed in the Foundational Courses in IKS are presented in Appendix.
- All UG-teaching Institutions should offer a large number of Elective Courses in IKS, from which the students may choose appropriately so as to complete a requisite number of courses and credits in IKS. These credits may be apportioned to the core disciplinary courses and the multidisciplinary courses. These courses could be in any of the disciplines/topics that are part of IKS, which are related to the field of specialization that the student is pursuing in the UG programme.
- The students may be allowed to opt for internship/apprenticeship in any of the disciplines/topics that are part of IKS.
- Wherever possible, the students may be encouraged to choose a suitable topic related to IKS for their project work in the 7/8th semesters of the UG programme.
- These provisions may be incorporated into the curricular framework for the respective programmes with the approval of the competent authority/body of the Higher Educational Institutions/the concerned professional councils wherever applicable.

**25. ADDITIONAL CREDIT COURSE**

<b>S. No.</b>	<b>Category</b>	<b>Outcomes</b>	<b>Credit Details</b>
1	Publication	Scopus or SCI or WoS (DOI is mandatory) (Max. 4 Students)	1 credit for each author
2	Swayam	After Completion	As recommended by SWAYAM
3	Industrial Training / Internship	Apart from Mandatory industrial training of 24 days	2 Weeks – 1 Credit 4 Weeks – 2 Credit 6 Weeks – 3 Credit
4	Industry Offered Course	Apart from curriculum, which will be offered by experts from industry / Institution collaborated with industry, subject to the approval of the Head of the Institution	For a Course: 15 hrs – 1 Credit 30 hrs – 2 Credit 45 hrs – 3 Credit
5	Value Added Course	Certification Course: Certificate is mandatory (Eg. Certified by Oracle, Zoho, Dassault System, CISCO, etc.)	1 Credit for each Course
6	Winner in National / International / Hardware / Software Contest	Eg. SIH, India Design Week, SAE, SUPRA	1 Credit for each Event (Winner / Runner)
7	Language	Language Certification of other countries (French, Japanese, German, Etc.)	1 Credit for each Course

**26. APPRENTICESHIP TRAINING**

Based on UGC's guidelines, selected students shall be offered apprenticeship training during their course of study for one semester in 3 or 4 year.

**27. CENTRES OF EXCELLENCE**

The departments are informed to propose the Centres of Excellence along with the annual targets for publication, patents, incubation and new product development.

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

The College may revise, amend or change the Syllabus and Scheme of examinations through the Academic Council.

# SUSTAINABLE DEVELOPMENT GOALS

