



Approved by AICTE, New Delhi
Affiliated to Anna University



Sri
SAIRAM
ENGINEERING COLLEGE
An Autonomous Institution
Chennai - 44 | www.sairam.edu.in



I am the Director to inform that the Department of Mechanical Engineering of your college has been recognized as a research centre with effect from 28-12-2019. The faculty members of the Department can interact with Anna University for collaborative research for the period 2020-2023. (By Research programme).

The recognized supervisors working in the above Department may be permitted to participate in sponsored Ph.D./M.Tech./Research programme relevant to their field of work. Please refer Volume 7 of Ph.D./M.Tech./Research Regulations.

The above recognition shall be renewed once in Three years in compliance with the norms for research centre as applicable.

In all future correspondence, please quote "4262717" for reference.

along with the prescribed format available in our website: cfr.annauniversity.edu.in
during January to March (Renewal Session) with a renewal fee on fulfilling the norms.



Yours faithfully

R. J.
DIRECTOR



AUTONOMOUS
REGULATIONS 2024
for B.E./ B.TECH.



VISION

To emerge as a “Centre of excellence” offering Technical Education and Research opportunities of very high standards to students, develop the total personality of the individual and instil high levels of discipline and strive to set global standards, making our students technologically superior and ethically stronger, who in turn shall contribute to the advancement of society and humankind.



MISSION

We dedicate and commit ourselves to achieve, sustain and foster unmatched excellence in Technical Education. To this end, we will pursue continuous development of infra-structure and enhance state-of-the-art equipment to provide our students a technologically up-to date and intellectually inspiring environment of learning, research, creativity, innovation and professional activity and inculcate in them ethical and moral values.



QUALITY POLICY

We at Sri Sai Ram Engineering College are committed to empower our students not only to excel academically but also imbibe essential values, enabling them to become exemplary global citizens. We build a better nation by fostering excellence and innovative practices in Engineering, Technology and Management Education. We are dedicated to consistently enhancing our systems, infrastructure, and services to meet the needs and expectations of all our stakeholders for sustainable growth.



SCOPE OF EOMS

To create capable Engineers and proficient management experts through the mentorship of competent educators cultivating the next generation of innovators committed to fostering sustainable technological growth in our communities and beyond.

REGULATIONS 2024

CHOICE BASED CREDIT SYSTEM

Common to all

B.E. / B.TECH.

Full-Time Programmes

This regulation is applicable to the students admitted to B.E./B.Tech. programmes at Sri Sai Ram Engineering College (Autonomous) from the academic year 2024- 2025 onwards.

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

- I. **“University”** means ANNA UNIVERSITY, CHENNAI.
- II. **“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 Practical or Theory with Laboratory (PW) or Laboratory with Theory (PT) that is normally studied in a semester, like Mathematics, Physics, etc.
- V. **“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. **“Dean-Academics”** means the authority of the college who is responsible for all the Academic activities for the implementation of relevant rules and Regulations.

- IX. **“Controller of Examinations”** means the authority of the College, who is responsible for all activities of the Examinations.
- X. **“College”** means Sri Sai Ram Engineering College (Autonomous).
- XI. **“TAP”** means Training and Placement cell of the college.
- XII. **“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.
- XIII. **“DAB”** represents the Department Advisory Board.
- XIV. **“PAC”** represents the Programme Assessment Committee.
- XV. **“Choice Based Credit System (CBCS)”**: The CBCS provides choice for students to select from the prescribed courses (elective or soft skill courses).
- XVI. **“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.
- XVII. **“Grade Point”**: It is a numerical weight allotted to each letter grade on a 10 Point scale.
- 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 credit points secured by a student in academic and skill enhancement courses/activities during 1 to 7 semesters.

1.2 COMMITTEES

1.2.1 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

1.2.2 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 Facilitator (S)
- b) Year Coordinators/HoD (C)
- c) Talent Enabler (O)
- d) Mentor of the Student (P)
- e) Class Coordinator (E)
- f) Senior Faculty Member (E)

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)

- (ii) 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 R2024 and changes made thereof in respect of this clause.

3. UG PROGRAMMES

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

Faculty of Engineering and Technology
Table 3.1: LIST OF UG PROGRAMMES OFFERED

S. No	Code	Program	Branch
1	CE	B.E.	Civil Engineering
2	CS	B.E.	Computer Science and Engineering
3	EC	B.E.	Electronics and Communication Engineering
4	EE	B.E.	Electrical and Electronics Engineering
5	EI	B.E.	Electronics and Instrumentation Engineering
6	EIC	B.E.	Electronic Instrumentation and Control Engineering
7	ME	B.E.	Mechanical Engineering
8	MU	B.E.	Mechanical and Automation Engineering
9	AM	B.E.	Computer Science Engineering (CSE) with Specialisation in Artificial Intelligence and Machine Learning (AI&ML)
10	CI	B.E.	Computer Science Engineering (CSE) with Specialisation in IoT
11	AI	B.Tech	Artificial Intelligence and Data Science
12	CB	B.Tech	Computer Science and Business Systems
13	IT	B. Tech	Information Technology
14	SC	B.E.	Computer Science Engineering (CSE) with Specialisation in Cyber Security

4. STRUCTURE OF PROGRAMMES

4.1 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 and Social Sciences (HS)** courses include Technical English, Tamil, Universal Human Values, Engineering Ethics, Communication skills, Environmental Science and Engineering.
- ii. **Basic Sciences (BS)** courses include Mathematics, Physics, Chemistry, etc.
- iii. **Engineering Sciences (ES)** courses include Engineering practices, Engineering Graphics, Basics of Electrical/Electronics/Mechanical/Computer Engineering and Instrumentation etc.
- iv. **Programme Core (PC)** courses include the core courses relevant to the chosen specialization/branch.
- v. **Programme Laboratory (PL)**, this includes practical courses relevant to the chosen specialization/branch.
- vi. **Programme Core with Laboratory Component (PW)** Courses include the core courses with laboratory components relevant to the chosen specialization/branch.
- vii. **Programme Laboratory with Theory Component (PT)** include the Laboratory component with theory relevant to the chosen specialization/Branch.
- viii. **Professional Elective (EL)** courses include the elective courses relevant to the chosen specialization/branch.
- ix. **Open Elective (OE)** 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.
- x. **Project (PJ)** Courses include Idea Engineering, Innovation Laboratory (Idea Validation/prototype development/Project Development, case study, Industrial based topics in the chosen field of specialization.

- xi. **Industry Connected Courses (IE)** include the courses handled by both industry experts and subject matter experts (SME).
- xii. **Talent Enhancement Courses (TE)** include Internship (offered by AICTE – Internship, Internshala etc.), Seminar, Case Study and Industrial/Practical Training.
- xiii. **Skill Enhancement Courses (TP):** Professional Practices, Industry Skill Enabling training & tests like GEO, English Etiquette, ELQ, NTT, Icebreaker, Code Mantra, GEN Z, R Learning, C-BYTS, AMCAT etc.
- xiv. **Mandatory Non-credit Courses (MC)** expose the students to courses such as Value Education, Yoga, Constitution of India, Essence of Traditional Indian Knowledge, Pedagogy Studies.
- xv. **Audit Courses (AC)** Courses include Sangam literature etc.

4.2 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 hrs of activity during the entire programme of study. Hence, a student shall perform the activity for a duration of 75 to 100 hrs in a year (2 semesters).

Here 40-45 hrs. is considered as 1 week. This activity has to be carried under the nomenclature SAIRAM – SAP (Sairam SDG Action Program)

These activities shall be coordinated by NSS/NCC/ YRC/NYK/ SDG/SCOUTS for WOSM/FIT INDIA/Sports coordinators or by the TAP Cell of the institute.

Following are the suggested activities as listed by AICTE:

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.,
- (f) 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.

TABLE 4.2: CLUB & CELLS

Technical	Service Oriented	Skill Building	Hobbies
Code Club	ECO and Swachh Bharat Club	English Language & Literature Club	Tamil Ilakkiya Mandram
Robotics Club	Rotaract Club	Foreign Language Club	Fine Arts Club
Cyber Club	Young Indian Club	Skill Development Club	Photography Club
M-apps Club	Health & Yoga Club	Standards Club	Agriculture & Farming Club
Automobile Club	Disaster Management & Safety Club		
Energy Efficiency Club	Red Ribbon Club		
Math Club			
Science Club			
Google Developer Club			
Game Development Club			

Apart from the above, the students shall enroll for Professional Societies as per their choice and branch of study.

- (g) Green Campus: The institute 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 institute will volunteer himself/herself in these two activities (i) Waste management (ii) Rain water harvesting.

4.3 MANDATORY THREE WEEK INDUCTION PROGRAMME

The students should undergo a mandatory three week 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.

4.4 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 and Laboratory courses, Laboratory with theory components and Employability Enhancement Course(s) not exceeding 5. Each Employability Enhancement Course may have credits assigned as per clause 4.5. However, the total number of courses per semester shall not exceed 12.

4.5 CREDIT ASSIGNMENT

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

CONTACT PERIOD PER WEEK	CREDITS
One Lecture Period	1
One Tutorial Period	1
Two Laboratory Periods	1
Two TEC Periods - courses like Seminar / Project Work / Case study / etc.	1

TABLE 4.5: CREDIT ASSIGNMENT**4.6 INDUSTRIAL TRAINING/INTERNSHIP**

The students shall undergo Industrial training for a period as specified (vide clause 4.6.1) during summer/winter vacation. In this case the training has to be undergone continuously for a period of at least 2 weeks (15 days) in an organization.

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

4.6.1 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 3 credits of Internship may be counted for the award of the degree.
- 1 credit is equivalent to a minimum 15 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.

4.6.2 Training and Placement Credentials

All the students joining the institute shall undergo training to enhance their industry readiness skill. This activity is taken care of by the Training and Placement cell (TAP) of the institute. Under this category every student shall have a minimum of exclusive 30 hrs 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 credit every semester up to 7th semester (A total of 7 credits).

4.7 INDUSTRIAL VISIT

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

4.8 ONLINE COURSES

Students are permitted to do online courses in the approved agencies (Specified in clause 4.8 (a)). 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 to qualify for the award of degree.

- a. SWAYAM NPTEL: Students admitted in the institution are encouraged to do at least one online course in the approved agencies in each semester.

4.9 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 4.9(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 institute.

4.10 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).

- 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 socially conscious human professional.

5. DURATION OF THE PROGRAMME

- 5.1 A student is ordinarily expected to complete the B.E./B.Tech. Programme in 8 semesters (four academic years) but in any case not more than 14 Semesters for HSC (or equivalent) candidates and not more than 12 semesters for Lateral Entry Candidates.

- 5.2** Each semester shall normally consist of 90 working days or 630 periods of 50 minutes each. 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.
- 5.3** The Head of 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.

But for the purpose of calculation of attendance requirement for writing the end semester examinations (as per clause 6) by the students, the following method shall be used.

Percentage of Attendance

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

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

- 5.4** 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

- i. Courses of the current semester (including Mandatory non - credit courses)
- ii. 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)
- iii. 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.
- iv. 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.
- v. 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.
- vi. 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 fulfilment 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
- vii. Any other course(s) the student wishes to register as per norms (vide clause 4.6, 4.8 and 4.9).

6.1 FACULTY MENTOR ASSIGNMENT

Each student, on admission shall be assigned to a Faculty Mentor (vide clause 8) who shall advise and counsel the student about the details of the academic programme and the choice of courses considering the student's academic background and career objectives.

6.2 COURSE REGISTRATION CONFIRMATION

Every student shall enrol 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.

6.3 ELECTIVE COURSE MINIMUM STRENGTH

Elective courses shall be offered by the department only if a minimum of 10 students register for that course, subject to the approval of the Head of the Department.

6.4 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.

- 6.4.1** Each student on admission shall register for all the courses prescribed in the curriculum for the first semester of study.
- 6.4.2** 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.
- 6.4.3** 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 enrol 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.
- 6.4.4** Students having a total of 45 and above credits as their (backlog) arrear courses are not permitted to register for the subsequent semester.

6.5 REGISTRATION FOR REAPPEARANCE

- 6.5.1** 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 fulfilment of clause 14.3. However, the attendance requirement is not compulsory for such courses.
- 6.5.2** 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 fulfilment of clause 14.3.
- 6.5.3** 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.
- 6.5.4** 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.
- 6.5.5** 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 fulfil 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.

- 6.5.6** After a student completes EIGHTH semester, if he/she has to complete ONE or TWO or THREE course(s) (maximum 3 only) only of any semester, for completing the program within 4 years, he/she will be permitted to appear for a special examination (conducted within a month after the announcement of eighth semester results) for those courses, carry forward the continuous assessment marks obtained during his/her last attempt, for fulfilling the requirements.

6.6 FLEXIBILITY TO ADD OR DROP COURSES

- 6.6.1** 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, 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 Dean-Academics.

- 6.6.2** 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 fulfil 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 80% (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 80% 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 Dean - Academics. 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 Assessment Test (CAT) throughout the semester.
- and
- (ii) End Semester Examination (ESE) at the end of the semester.

TABLE 11.2: ASSESSMENT WEIGHTAGE TABULATION

S.No.	Category of Course	Continuous Assessment Test	End Semester Examination
1	Theory	40	60
2	Theory with Laboratory	50	50
3	Laboratory	60	40
4	Laboratory with Theory	60	40
5	Project Work	50	50
6	Other Courses (TE, TP)	100	-
7	Online Courses	40	60

11.2 The End Semester Examination (Theory, Laboratory, Theory with Laboratory and Laboratory with Theory) 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. Additionally the 6th module contains experiments ranging from 6 to 10 related to the course objective 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 and six to eight topics that are very much required for the completion of experiments and its understanding.

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 three continuous assessment tests conducted at regular intervals for a maximum of 100 marks each. At the end of the course, it will be considered for internal assessment with a weightage of 20 marks.

There will be a SAIRAM-SAP based assessment for every student and their score will be considered for the internal assessment with a weightage of 20 marks.

The SAIRAM-SAP consists of

- (i) For every course the faculty handling the course shall give a quiz (MCQ) relevant to the course through SAIL APP or as specified by the respective BoS. The faculty shall evaluate the work done by the student in SAIL APP. This is added with a weightage of 10 Marks to CAT.
- (ii) For every course the faculty handling the course shall give assignment relevant (as per CO distribution table) to the course through Google Class Room (GCR) or as specified by the respective BoS. The faculty shall evaluate the work done by the student in GCR. This is added with a weightage of 10 Marks.

(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.

© Theory Courses with Laboratory Component (PW)

If there is a theory course with a Laboratory component, there shall be three assessments for the theory portions. In addition after the 3rd test there will be a laboratory component test. The marks obtained from the 3 theory tests will be added and weighted to 10 marks. The marks obtained from the laboratory test will be weighted to 20 marks. The sum of these marks of all four assessment tests will be rounded to the nearest integer.

There will be a SAIRAM-SAP based assessment for every student and their score will be weighted to 20 marks.

The SAIRAM-SAP consists of

- (i) For every course the faculty handling the course shall give a quiz (MCQ) relevant to the course through SAIL APP or as specified by the respective BoS. The faculty shall evaluate the work done by the student in SAIL APP. This is added with a weightage of 10 Marks to CAT.
- (ii) For every course the faculty handling the course shall give Assignment relevant (as per CO distribution table) to the course through Google Class Room (GCR) or as specified by the respective BoS. The faculty shall evaluate the work done by the student in GCR. This is added with a weightage of 10 Marks to CAT.

(d) Laboratory with theory component

- a. For the theory portions, 1 assessment test shall be conducted and the marks obtained shall be weighted for 10 marks.
- b. For the laboratory portions, 2 cycle tests shall be conducted and the marks obtained shall be weighted for 10 marks
- c. On successful completion of all the prescribed experiments in the laboratory marks, will be weighted for 40.
- d. The sum of these three marks will be added and rounded to the nearest integer for the purpose of an internal assessment test out of 60 marks.

(e) 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 five namely (i) Excellent, (ii) Very Good, (iii) Good, (iv) Fair and (v) RA.

TABLE 12.1: AWARDING MARKS FOR INTERNAL ASSESSMENT

S.No	Category of Course	Continuous Assessment (Marks)				
		CAT	MCQ	Assignment	Cycle Test	Experiments
1	Theory	20	10	10	-	-
2	Laboratory	-	-	-	15	45
3	Theory with Laboratory	10	10	10	20	-
4	Laboratory with Theory	10	-	-	10	40
5	Online Courses	20	10	10	-	-

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 12.2: PROJECT WORK

Internal (50 Marks)			End Semester Examinations (50 Marks)				
Review	Review	Review	Thesis Submission/ Evaluation (25)			Viva-voce (25)	
I	II	III					
			Supervisor	Internal	External	Internal	External
10	15	25	5	10	10	10	15

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 OTHER TALENT ENHANCEMENT COURSES

The Courses Industrial/Practical Training, Summer Project, Internship

12.3.1 Internship courses shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial/Practical training/internship/Summer Project, the candidate shall submit a certificate from the organization where he/she has undergone training and a brief report. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three member's departmental committee constituted by the Head of the Department approved by the competent authority of the Institution. The assessment shall consist of 5 marks for the certificate, 35 marks for the presentation and 20 marks for the interactions. There shall be one Faculty in charge assigned for the above and shall consolidate the assessment details and submit to the CoE through HoD.

TABLE 12.3: THE ASSESSMENT WEIGHTAGE FOR THE INTERNSHIPS

IEC Evaluation Rubrics				
Item	Type of the Company	Technical Knowledge	Presentation	Certificate
Marks (%)	40	20	35	5

12.3.2 The value addition courses which normally start from 2nd Semester and Live-in Laboratory category courses shall carry 100 marks and shall be evaluated through internal assessment only. The evaluation will be done continuously based on 4 reviews (0th review to 3rd review) and a final review with oral Viva-Voce Examination, conducted internally by a Departmental Committee constituted by the Head of the Institution. The weightage of marks for reviews allotted as per the following table.

TABLE 12.4: ASSESSMENT WEIGHTAGE FOR THE COURSES

REVIEWS	0	1	2	3	Final Review
WEIGHTAGE	10%	20%	25%	15%	30%

12.3.3 The Skill Enhancement courses

The skill enhancement courses shall carry 100 marks evaluated through internal assessments only. The course offered in the second semester shall be supplemented by an online course in MS Office which is mandatory for the award of degree. The courses under this category offered from third semester shall carry a weightage of 70% for the common skills and 30% weightage for the domain specific skills obtained by the students. The evaluation is based on two or three online tests and quizzes, conducted by Training and Placement Cell (TAP) of the institute. The students will be graded based on the marks obtained through these examinations.

TABLE 12.5: ASSESSMENT WEIGHTAGE FOR SKILL ENHANCEMENT COURSES

Semester	Category			Credits
	Life Skills / Soft Skills	Aptitude	Domain Skills	
1	70%		30%	Yes
2	70%		30%	No
3		70%	30%	Yes
4		70%	30%	No
5			100%	Yes
6			100%	No

12.4 ASSESSMENT FOR ONLINE COURSES

Students shall earn a minimum of six credits through online courses during the entire period of study to qualify for the award of degree. The approved list of online courses will be provided by the office of the Dean Academics from time to time. Subject to the fulfilment of clause 4.8.

12.4.1 Online course credits

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

12.4.2 However for students opting courses under clause 16.1 for the purpose of honours 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 Dean Academics 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 each with 50 marks. 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).

12.5 INTIMATION OF INTERNAL MARKS

Internal marks approved by the Head of the Institution shall be intimated to the students by the respective HoDs within 5 days from the last working day.

12.6 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.

12.7 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 institute.

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 assessment test (CAT) + 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

	CAT minimum	ESE minimum	Overall Passing
Theory	NIL	45% (27 out of 60 marks)	50 % (CAT and ESE together)
Practical	NIL	50% (25 out of 50 marks)	50 % (CAT and ESE together)
Project	NIL	50% (25 out of 50 marks)	50 % (CAT and ESE together)
Theory with Laboratory component	NIL	50% (25 out of 50 marks)	50 % (CAT and ESE together)
Laboratory with Theory component	NIL	50% (25 out of 40 marks)	50 % (CAT and ESE together)
Online Course	NIL		50 % (CAT 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 / laboratory integrated theory courses and all EEC except laboratory course / Project Work Course), 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. 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.

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	C	U
Marks Range	91 - 100	81 - 90	71 - 80	56 - 60	50 - 55	< 50

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 prevention from writing the end semester examinations. 'SA' will appear only in the result sheet. "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 Organisation (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.

(I) The grades for extra Curricular activities

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

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.

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

Where C_i is the number of Credits assigned to the course. GP_i is the point corresponding to the grade obtained for each i 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.

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 Dean (Academics) 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.

(b) : B.E./B.Tech. (Honours)

The students

- I. Should have earned additional courses (minimum of 18 credits) from more than one 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.

(c) : 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 or from any one of the following verticals.

- I. Vertical 1: Fintech and Block Chain
- II. Vertical 2: Entrepreneurship
- III. Vertical 3: Public Administration
- IV. Vertical 4: Business Data Analytics
- V. Vertical 5: Environment and Sustainability

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)	CGPA (v)	Pass in (vi)	Break of study (vii)	Prevention due to lack of attendance	Withdrawal from writing end semester examination (viii)
B.E./B.Tech. (Regular)	4 Years	5 Years	-	8.50	First Attempt	One Year 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 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. (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 same programme	6.50	-	One Year Authorized break of Study included in the duration permitted (iii)	Included in the Duration Permitted (iii)	-

16.2 PHOTOCOPY/REVIEW

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

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 Dean (Academics), 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 within TEN days prior to 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 by paying a prescribed fee for break of study. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent

year, permission may be granted based on the merits of the case provided he/she applies to the Dean (Academics), 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/more than 15 numbers of arrears, 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 Dean (Academics) 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. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The College may from time to time revise, amend or change the Regulations, Curriculum, Syllabus and Scheme of examinations through the Academic Council.

AMENDMENTS

The following amendments to the UG R2024 Regulations have been approved by the Academic Council (Meeting No: 11, By circulation on 05.02.2026) and have come into effect from 06.02.2026. This is applicable from the academic year 2024-2025.

Clause	Existing	To Be Read as
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 three continuous assessment tests conducted at regular intervals for a maximum of 100 marks each. At the end of the course, it will be considered for internal assessment with a weightage of 20 marks. There will be a SAIRAM-SAP based assessment for every student and their score will be considered for the internal assessment with a weightage of 20 marks.	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 conducted at regular intervals for a maximum of 100 marks each. At the end of the course, it will be considered for internal assessment with a weightage of 20 marks. There will be a SAIRAM-SAP based assessment for every student and their score will be considered for the internal assessment with a weightage of 20 marks.
12.1.c	Theory Courses with Laboratory Component (PW) If there is a theory course with a Laboratory component, there shall be three assessments for the theory portions. In addition after the 3rd test there will be a laboratory component test. The marks obtained from the 3 theory tests will be added and weighted to 10 marks. The marks obtained from	Theory Courses with Laboratory Component (PW) If there is a theory course with a Laboratory component, there shall be two assessments for the theory portions. In addition after the second test there will be a laboratory component test. The marks obtained from the 2 theory tests will be added and weighted to 10 marks. The marks obtained from the laboratory test will

Clause	Existing	To Be Read as
12.1.c	the laboratory test will be weighted to 20 marks. The sum of these marks of all four assessment tests will be rounded to the nearest integer. There will be a SAIRAM-SAP based assessment for every student and their score will be weighted to 20 marks.	be weighted to 20 marks. The sum of these marks of all four assessment tests will be rounded to the nearest integer. There will be a SAIRAM-SAP based assessment for every student and their score will be weighted to 20 marks.
12.4.2.b	For courses recommended for the purpose of credit transfer, three continuous assessment tests shall be conducted each with 50 marks. 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).	For courses recommended for the purpose of credit transfer, two continuous assessment tests shall be conducted each with 60 marks. 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).
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.	AWARD OF LETTER GRADES: All assessments of a theory course will be evaluated on an absolute 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 absolute grading obtained by the candidate in each course as the case may.

Clause	Existing	To Be Read as
15.1	RELATIVE GRADING: For those students who have passed the course (theory course / laboratory integrated theory courses and all EEC except laboratory course / Project Work Course), 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. 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	Clause 15.1 has been removed

Imagine the Future and Make it happen!



1 NO POVERTY



2 ZERO HUNGER



3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



7 AFFORDABLE AND CLEAN ENERGY



8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



16 PEACE, JUSTICE AND STRONG INSTITUTIONS



17 PARTNERSHIPS FOR THE GOALS



Together let's build a better world where there is **NO POVERTY** and **ZERO HUNGER**.

We have **GOOD HEALTH AND WELL BEING**, **QUALITY EDUCATION** and full **GENDER EQUALITY** everywhere.

There is **CLEAN WATER AND SANITATION** for everyone. **AFFORDABLE AND CLEAN ENERGY**

which will help to create **DECENT WORK AND ECONOMIC GROWTH**. Our prosperity shall be fuelled

by investments in **INDUSTRY, INNOVATION AND INFRASTRUCTURE** that will help us to

REDUCE INEQUALITIES by all means. We will live in **SUSTAINABLE CITIES AND COMMUNITIES**.

RESPONSIBLE CONSUMPTION AND PRODUCTION will help in healing our planet.

CLIMATE ACTION will reduce global warming and we will have abundant,

flourishing **LIFE BELOW WATER**, rich and diverse **LIFE ON LAND**.

We will enjoy **PEACE AND JUSTICE** through **STRONG INSTITUTIONS**

and will build long term **PARTNERSHIPS FOR THE GOALS**.



For the goals to be reached,
everyone needs to do their part:
governments, the private sector,
civil society and **People like you**.

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Sai Prakash Leo Muthu

CEO - Sairam Institutions

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through Quality education.



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