

**SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
KUNIAMUTHUR, COIMBATORE-641008**

REGULATIONS 2022

CHOICE BASED CREDIT SYSTEM

Common to all B.E/B.Tech/M.Tech (5 year Integ) Programmes

(For all the students admitted to B.E/B.Tech/M.Tech (5 Yr Integ). Programme from the
Academic year 2022– 2023 onwards)

NOTE: The regulations, hereunder, are subject to amendments as may be made by the Academic Council of the College from time to time. Any or all such amendments will be effective from such date and to such batches of students (including those already undergoing the programme) as may be decided by the Academic Council.

1. DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise specifies:

- I. **“Programme”** means B.E / B.Tech Degree Programme.
- II. **“Course”** means a Theory or Practical subject that is normally studied in a semester.
- III. **“Head of the Institution”** means the Principal of the College who is responsible for all academic activities of the College and for the implementation of relevant rules of the Regulation.
- IV. **“Controller of Examinations (CoE)”** means the Authority of the College who is responsible for all activities of the assessment process.
- V. **“Head of the Department”** means Head of the concerned Department of the College.
- VI. **“Chairman-Board of Studies (BoS)”** means Head of the concerned Department of the College.
- VII **“University”** means the affiliating university, Anna University, Chennai.
- VIII **“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.
- IX **“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.
- X **“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.

- XI “**Capstone Model**” means the components of internal assessment
- XII “**CIA**” Continuous Internal Assessment
- XIII “**SEE**” Semester End Examination

2. **ADMISSION PROCEDURE**

Students for admission to the B.E / B.Tech / M.Tech (Integ) degree programme will be required to satisfy the conditions of admission thereto prescribed by affiliating University and the Government of Tamil Nadu as follows:

2.1 **Candidates seeking admission to the first semester of the eight/ten semesters B.E/B.Tech/ M. Tech (Integ) Degree Programme:**

- a. Should have passed the Higher Secondary Examinations of (10 +2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four courses of study under Part-III or any other equivalent examination of any other University.

(OR)

- b. 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:**

- a. The candidates who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamilnadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of the B.E/B.Tech programmes in the discipline concerned.

(OR)

- b. 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/M.Tech programme. Such candidates shall undergo bridge courses prescribed by the institution.

3. **PROGRAMMES OFFERED AND MODE OF STUDY**

3.1 **Programmes:**

The following are the branches of study under B.E / B.Tech degree programme.

- B.E** Civil Engineering
- Computer Science and Engineering
- Computer Science and Engineering (Cyber Security)
- Computer Science and Design
- Electrical and Electronics Engineering
- Electronics and Communication Engineering
- Mechatronics Engineering
- Mechanical Engineering

B.Tech Artificial Intelligence and Data Science
Computer Science and Business Systems
Information Technology

M.Tech Computer Science and Engineering (5 year Integ.)

3.2 Modes of Study:

3.2.1 Full-Time:

All the programmes are full-time programmes and Students admitted should be available in the College during the complete working hours for curricular, co-curricular, and extra-curricular activities prescribed for the programme.

3.2.2 Medium:

The medium of instruction shall be English for all Courses, Examinations, Seminar presentations and Project / Internship project/ Thesis / Dissertation.

4. STRUCTURE OF PROGRAMMES

4.1 Category of Courses

Every B.E/B.Tech/ M. Tech (Integrated) Programme has a Curriculum and Syllabi consisting of the following category of courses and range credit requirements:

Sl. No.	Category of Courses	Credits	Remarks
1	Humanities and Management (HM)	6-12	Courses include Technical English, subjects of Management studies, Communication skills
2	Basic Sciences (BS)	20-29	Courses include Mathematics, Physics, and Chemistry
3	Engineering Sciences (ES)	15-32	Courses include Engineering practices, Engineering Graphics, Basic subjects related to engineering disciplines.
4	Professional Core (PC)	53-106.5	Core Courses relevant to the chosen specialization/branch.
5	Professional Electives (PE)	15-18	Courses include the elective courses relevant to the chosen specialization/branch.
6	Open Electives (OE) / Emerging Elective (EE)	6-18	Courses relevant to other technical and /or emerging subjects
7	Project Work (PW)	13-18/ 27	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.
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
9	Industrial Practice/		Students undertake training in industries

	Employability Enhancement Skills	2/1.5	or R&D organization for a minimum period of three weeks (Internship) / Publication
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4.2 Credit System

All the programmes offered in the college are in semester pattern and organized around the Choice Based Credit system of study. The students shall have flexibility to choose the subjects in all categories of courses. A student is allowed to attend classes in a course and earn credit for it, only if he/she has registered for that course. The credit system enables continuous evaluation of student's performance/progress and flexibility to allow him/her to progress at an optimum pace suited to his/her ability or convenience, subject to fulfilling minimum requirements for continuation.

Student's performance/progress is measured by the number of credits that he/she has earned, i.e., completed satisfactorily. Based on the course credits and grades obtained by the student, grade point average is calculated. A minimum number of earned credits, (clause 4.3), and minimum grade point average as given in clause 17, should be acquired in order to qualify for the degree.

All programmes are defined by the total credit requirement and a pattern of credit distribution over courses of different categories. The Total credit requirements for different programmes are given in clause 4.3. Category break-up for courses are given in clause 4.1.

4.3 Course Credit Assignment

The total credit requirement for successful completion of the B.E/B.Tech (Four Year Programme) and M.Tech (5 yr Integ) Programme of study in the respective branches listed in clause 3.1, by a student to qualify for the award of degree is 168 and 200 respectively and that for the lateral entry students is 120-125 (B.E/B.Tech) and 159-168 (M.Tech (Integ)).

Each course has a certain number of credits assigned to it depending upon its lecture, tutorial and laboratory contact hours in a week. This weightage is also indicative of the academic expectation that includes in-class contact and self-study outside class hours.

Lectures and Tutorials	:	1 contact hour per week per semester is assigned one credit.
Practical Laboratory	:	one Laboratory hours per week per semester is assigned 0.5 credits
Associated with Theory		
Practical/Laboratory	:	one Laboratory hours per week per semester is assigned 0.5 credit
Mini-project	:	1 - 3 Credits
Project Work/Internship		
Project	:	12 - 24 credits

4.4 Electives

- i. Electives are classified as Program and Open electives / Emerging Electives. Program electives and Emerging electives are those which are offered by the parent department of the student. The Open electives are those offered by other than the parent department. Emerging electives and Open electives are open for parent and other allied department students.
- ii. Number of students opting an elective should not be less than 30 for departments with triple intake and 15 for departments with double and single intake.
- iii. Every student is required to opt for **FIVE/SIX** Professional Electives as prescribed in the curriculum. The electives shall be selected from the list of electives relating to his/her parent department. 15-18 credits to be earned by him/her under this category.
- iv. However, a student has to take **TWO/FIVE** elective papers from the list of open electives and emerging subjects offered by the departments of B.E/B.Tech programme with a total of 6 - 15 credits during his/her course of study.

4.5 Mandatory Courses

Students can opt for mandatory courses of 15 hours' duration each, subject to the approval by the Head of the department. Completion Status of the course should be submitted by the course coordinator to the Controller of Examinations after the course work is completed. Students can complete the mandatory courses during the semesters 1 to 7 as and when the courses are offered by the department. The course assessment may consist of tests, problem solving, assignments and paper presentation, which will be decided by the course coordinator duly approved by the Head of the Department.

4.6 Value Added Courses

The Students may optionally undergo Value Added Courses over and above the topics covered in the curriculum to obtain practical and industry specific knowledge. The credits earned through the Value Added Courses shall be over and above the total credit requirements prescribed in the curriculum for the award of the degree. One / Two credit courses shall be offered by a Department with the prior approval from the Head of the Institution. Students can take a maximum of two one credit courses / one two credit course during the entire duration of the Programme.

4.7 Online Courses

Students may be permitted to credit a maximum of two online courses (in his/her chosen area of specialization) subject to a maximum of six credits, with the approval of Head of the Institution in lieu of two professional elective courses. The Head of the Institution shall form a three member committee with members as HOD and a faculty member from the department of the student, HOD of any other branch of the

Institution to ensure that the student has not studied such courses and would not repeat it again as Professional Core/Professional Elective courses. Suitable online courses shall be chosen from the SWAYAM platform.

4.8 Project Work

Every student will have to undertake suitable projects in department / industry / research organization in consultation with the Head of the Department and the faculty guide.

4.8.1 Mini Project

This course will be done during the 4th – 6th semester of the Undergraduate Programme. A Mini- project will be a regular course to conduct a design and fabrication type project. The student and teacher would decide upon the topic, prepare a plan of work and get the approval of the Course coordinator before the end of the semester when the course is registered for. The duration of the course will be the entire semester. A project report is to be submitted by the student at the completion of the course. The student's performance will be evaluated by the departmental committee through two in-semester presentations and final evaluation. A Mini-project can be done jointly by maximum of four students.

4.8.2 Project Work

The project will be carried by the student in the final semester. Students need to conduct studies, analyze, design, fabricate/simulate, and demonstrate the project in the industry. Students and teacher would decide upon the topic, prepare a plan of work and get the approval of the Course coordinator before the end of the semester, when the course is registered. The duration of the course will be the entire semester. A project report is to be submitted by students on the completion of the course. The Performance of a student will be evaluated by the departmental committee through seminar presentations conducted at least thrice a semester, and final report presentation with viva-voce. The final viva-voce of the project will only have the external examining pattern.

Departments may have a literature survey/ Project Phase I inclusive or exclusive of the project work.

4.9 Internship (M.Tech CSE)

Industrial Project will be carried out by the student as an intern in an Organization in the ninth and tenth semesters for M. Tech Computer Science and Engineering (5 year Integrated) programme. The Organization hosting an intern, shall appoint a supervisor to supervise the work of the student. The Supervisor will provide feedback on the progress of the student. The Organization will provide a certificate, on the satisfactory completion of the Internship. In addition, the student will submit to the department a report.

4.10 Employability Enhancement Skills

- 4.10.1 Industrial Practice is a regular departmental course to be done during the course of study. The Industrial Practice duration may be a minimum of **three weeks**, preferably in an industry or an R& D institution.
- 4.10.2 It may be the joint responsibility of the departments and the Placement & Training Cell to arrange for the practice for all their students. If a student is interested in making his/her own arrangement for the practice, he/she will need to route the application through the department and P&T cell, and have the approval of the organization offering the practice. No self-arranged practice, not approved through the above process, will be allowed.
- 4.10.3 The Department will appoint an Industrial Practice supervisor for each student. The supervisor is expected to keep continuous contact with the assigned student/s. The student/s will be required to get their plan on Industrial practice reviewed by their supervisor within the first week and report their progress on a weekly basis. The supervisor, if desires, may visit the organization.
- 4.10.4 A student will be registered for the Industrial Practice course in the summer / winter semester in which the training is being carried out. The department will scrutinize the training report and the training certificate, and if the training is satisfactory, recommend the completion status of field training to the controller of Examinations.
- 4.10.5 In any case, this requirement has to be completed before the beginning of the eighth semester.
- 4.10.6 All the students shall opt for this course as a part of their Programme required.

4.11 Personality Development

All students shall enroll, on admission, in any one of the Community Services or Extension activities (NSS / YRC / RRC/ Sports & Games/Cultural) and participate actively for a minimum of 15 hours during the first four semesters of study on a compulsory basis. If, however, a student is unable to complete this requirement in the first year, he/she must complete it by the end of the II year (IV semester).

- i. **National Service Scheme (NSS)** will have social service activities in and around the College.
- ii. **Youth Red Cross (YRC)** society activities will include peace time activities like health & hygiene, international friendship, awareness camps etc.
- iii. **Red Ribbon Club (RRC)** activities will include the conduct of awareness and education programmes on health related issues.
- iv. **Sports & Games** activities will include preparation for intercollegiate sports events.
- v. **Cultural** activities will include preparation and participation in intercollegiate competitions.

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

4.12 Course Coordinator

Every course is usually coordinated by a member of the teaching staff of the department, which is offering the course in a given semester. This faculty has the full responsibility of conducting the course, coordinating the work of the other members of the faculty as well as the teaching assistants involved in that course. For any difficulty related to a course, the student is expected to approach the respective course coordinator for advice and clarification.

5 DURATION OF THE PROGRAMME

5.1 Minimum Duration

The programme extends over a period of four years leading to the Degree of Bachelor of Engineering (B.E) / Bachelor of Technology (B.Tech) / M.Tech (Integrated) of the Anna University, Chennai. The four/five academic years are divided into eight / ten semesters with two semesters per year. Provision is made for lateral entry of students in the third semester of the programme in any one of the branches of study and the students are required to satisfy the conditions of admissions thereto prescribed by the affiliating university and the Government of Tamil Nadu.

Each semester shall normally consist of 75 working days or 540 periods of 50 minutes' duration. The Head of the Department shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus covering the full content of the syllabus for the course being taught.

The Head of the Institution may conduct additional classes for improvement, special coaching, conduct of model test etc., over and above the specified periods

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

5.2 Maximum Duration

5.2.1 The student shall complete all the passing requirements of the B.E. / B.Tech degree programme within a maximum period of 7 years (6 years for lateral entry). These periods will be reckoned from the commencement of the first semester (third semester in the case of lateral entry) to which the student is first admitted to the programme.

5.2.2 The student shall complete all the passing requirements of the M.Tech degree programme within a maximum period of 8 years (7 years for lateral entry). These periods will be reckoned from the commencement of the first semester (third

semester in the case of lateral entry) to which the student is first admitted to the programme.

- 5.2.3** 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 5.2.1 irrespective of the period of break of study (clause 22) in order that he/she may be eligible for the award of the degree.

6 COURSE REGISTRATION

- 6.1** The department is responsible for registering the courses that each student is proposing to undergo in the ensuing semester. Each student has to register for all courses to be undergone in the curriculum of a particular semester. (with the facility to drop courses to a maximum of 6 credits (vide clause 6.2)). The registration details of the student shall be approved by the Head of the Institution and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations.

6.2 Flexibility to Add or Drop courses

- 6.2.1** A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree.

- 6.2.2** From the III to VIII/X semesters, the student has the option of registering for additional courses or dropping existing courses. Total number of credits of such courses cannot exceed 6. However, the maximum number of credits the student can register in a particular semester cannot exceed 30 credits.

6.3 Reappearance Registration

- 6.3.1** If a student fails in a theory course, the student shall do reappearance registration for that course in the subsequent semester and attend End Semester Examinations.

- 6.3.2** If the theory course, in which the student has failed, is a Program elective, Emerging elective or an Open elective, the student may register for the same in the subsequent semester.

- 6.5.3** The student who fails in any Laboratory Course/ Project work / Seminar shall register for the same in the subsequent semester, when offered next, and attend the end semester examination.

7 ATTENDANCE REQUIREMENTS FOR APPEARING IN THE END SEMESTER EXAMINATIONS OF A COURSE

A student who has fulfilled the following conditions shall be deemed to have satisfied the attendance requirements for completion of the courses of a Semester.

- 7.1** Ideally, every student is expected to attend all classes and earn 100% attendance. However, in order to allow provision for certain unavoidable reasons, a student is

expected to earn a **minimum of 75% overall attendance** (total number of periods attended by the student in all courses as against the total number of periods offered in all courses during that semester) to become eligible to write the End Semester Examinations.

- 7.2** However, a student who secures overall attendance between **65% and 74%** of the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) and/or participation in co-curricular, extra-curricular events may be permitted to appear in the current semester examinations subject to the condition that the student submits the medical certificate /sports participation certificate to the Head of the Institution. The same shall be forwarded to the COE of the college for record purposes.
- 7.3** Students who secure **less than 65%** overall attendance will not be permitted to write the End Semester Examinations of that semester.
- 7.4** Notwithstanding the said provisions, a student will be deemed to have completed the course of any semester only if the student's progress and conduct has been satisfactory.
- 7.5** Students who do not satisfy the requirement that they shall undergo 15 hours of NSS / YRC / RRC/ Sports & Games activities (clause **4.7**) during the first four semesters will not be permitted to appear for the End Semester Examinations of the following semesters unless they complete the requirements specified.
- 7.6** If the attendance of the candidate falls short of 75% but more than 65% in any subject due to continuous absence caused by accident, prolonged illness or unforeseen circumstances, such cases may be considered by the Head of the Institution for Condonation of absence based on the request of the candidate supported by the recommendation of the class advisor and HOD concerned. However, in such cases the candidate must have duly applied for leave on time. A candidate will be given condonation only two times for the entire duration of the course of study.
- 7.7** Students who do not qualify to appear in the end-semester examinations of any semester for want of attendance and/or progress and/or conduct have to register for and redo that semester programme in the next immediate available opportunity subject to the approval of Directorate of Technical Education and affiliating University.

8 FACULTY ADVISOR

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 maximum of 25 students to a Teacher of the Department who shall function as Faculty Advisor for those students throughout their period of study. The Faculty Advisor shall advise the students and monitor the courses taken by the students, check the Attendance and Progress of the students attached to him/her and counsel them periodically. If necessary, the Faculty Advisor may also discuss with or inform the parents about the progress of the students.

9 VARIOUS COMMITTEES

9.1 Class Committee

9.1.1 A Class Committee consists of faculty members of all the courses offered to the concerned class, student representatives from that class 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,

- i. Solving problems experienced by students in the classroom and in the laboratories
- ii. Clarifying the regulations of the programme and the details of rules therein
- iii. Informing the student representatives, the Academic schedule, including the dates of assessments and the syllabus coverage for each assessment
- iv. Informing the student representatives, the details of regulations regarding the weightage used for each assessment. In the case of practical courses (laboratory / Project work / Internship Project / Seminar, etc.) the breakup of marks for each Experiment/ Exercise/ module of work, shall be clearly discussed in the class committee meeting and informed to the students.
- v. Analyzing the performance of the students of the class after each test and finding the ways and means of solving academic problems of the students, if any
- vi. Identifying the weak students, if any, and arrange to provide some additional help or guidance or coaching to such weak students.

9.1.2 The Class committee for a class is normally constituted by the Head of the parent department. The class committee for open elective courses will be constituted by the Head of the department which offers the course. (A class is one in which group of student's study course/s of a particular semester.)

9.1.3 The class committee shall be constituted before commencement of every monthly test.

9.1.4 At least 8 student representatives (proportionate to the strength of boys and girls) shall be included in the Class committee. Two students having CGPA above average, two students having average CGPA, two students having CGPA less than average and two lateral entry students may be nominated as the class committee members.

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

9.1.6 The Head of the Institution may participate in any class committee of the institution.

9.1.7 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 among the concerned students and Teachers. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the management by the head of the Institution.

9.1.8 During these meetings the student members, representing the entire class, shall meaningfully interact and express the opinions and suggestions of the class students to improve the effectiveness of the teaching-learning process.

9.2 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 SEMESTER END EXAMINATIONS

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

10.2 Each course, both theory and practical (including project work & viva voce Examinations) shall be evaluated for a maximum of 100 marks. The following will be the examination and continuous assessment weightages for different courses

Course	Assessment Weightage, %	
	Continuous Internal Assessment	Semester End Examination
Theory cum Tutorial based courses	40	60
Theory cum Lab based courses	50	50
Laboratory based courses	60	40
Mini-Project	60	40
Project work	60	40
Mandatory Courses	100	-

10.3 Mandatory course shall carry 100 marks and shall be evaluated through internal assessment only.

10.4 The Semester End Examination (theory and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semesters and between April and June during the even semesters.

- 10.5** The Semester End 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 and an internal examiner.
- 10.6** For the University examination in both theory and practical courses including project work the internal and external examiners shall be appointed by the Controller of Examinations.
- 10.7** If a student indulges in malpractice in any of the End Semester Examinations, he/she shall be liable for punitive action as prescribed by the Enquiry Team Constituted by the Head of the Institution from time to time.

11 ASSESSMENT PROCEDURES FOR AWARDING MARKS

All B.E./B.Tech Programmes consist of Theory Courses, Laboratory Courses, Lab cum Theory Courses, Mini Projects, Industrial Field Training Course, Mandatory Courses and Industrial project. Appearance in End Semester Examinations is mandatory for courses including Theory, Laboratory, Lab cum Theory Courses and Industrial project work.

Performance in each course of study shall be evaluated based on (i) Continuous assessments throughout the semester and (ii) End Semester Examinations at the end of the semester.

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

11.1 Assessment for Theory Courses

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

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

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

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

In case a student misses the internal assessment due to medical reasons (hospitalization / accident / specific illness) or due to participation in the College / University / State / National / International level Sports events with prior permission from the Chairman, Sports Board a Reassessment may be conducted before the end of the semester after getting approval from the Head of the Ins.

11.2 Assessment for Laboratory Courses

The maximum marks for Internal Assessment shall be 60 marks in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records are to be maintained. There shall be at least one test. The criteria for arriving at the Internal Assessment marks of 60 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

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

** Internal assessment marks shall be converted into 60 marks*

Rubrics will be framed by the course coordinator and duly approved by the Head of the Department.

11.3 Assessment for Theory cum Laboratory Courses

If there is a theory course with laboratory component, there shall be two assessments: the first assessment (maximum mark is 100) will be similar to assessment of theory courses and the second assessment (maximum mark is 100) will be similar to assessment of laboratory course respectively. The weightage of first assessment shall be 40 % and the second assessment be 60%.

The weighted average of these two assessments shall be converted into 50 marks and rounded to the nearest integer.

Assessment I (40% Weightage) (Theory Component)		Assessment II (60% Weightage) (Laboratory Component)		Total Internal Assessment
Individual Assignment/ Case Study/ Seminar/ Mini Project	Written Test	Individual Assignment/ Case Study/ Seminar/ Mini Project	Written Test	
40	60	75	25	200*

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

The end semester examination is carried out only for theory.

11.4 Assessment for Project

11.4.1 Assessment for Mini Project

For Mini-project, the student has to design and fabricate a product. For mini project work out of 100 marks, the maximum marks for Continuous Assessment is fixed as 60 and the End Semester Examinations (project report evaluation and viva-voce examination) carries 40 marks. Project work may be assigned to a single student or to a group of students not exceeding 4 per group.

11.4.2 Assessment for Project Work

For project, there shall be three assessments (each 100 marks) during the semester by a review committee. The student shall make presentation on the progress made before the committee. The Head of the Department shall constitute a review committee for each programme. There shall be a minimum of three members in the review committee. The project Guide will be one of the members of the Review Committee. The total marks obtained in the three Reviews shall be 60 marks.

The student(s) is expected to submit the project report on or before the last working day of the semester. The End Semester Examinations for project work shall consist of evaluation of the final project report submitted by the student or students of the project group by an external examiner followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the guide of the project group and an internal examiner. The Controller of Examinations shall appoint Internal and External Examiners for the End Semester Examinations of the Project Work.

11.5 Assessment for Mandatory Courses:

The Mandatory course shall carry 100 marks and shall be evaluated through continuous assessments only.

11.6 Assessment for Value added Courses

The one / two credit course shall carry 100 marks and shall be evaluated through continuous assessments only. Two Assessments as per the clause 11.1 or 11.2 shall be conducted by the Department concerned. The total marks obtained in the assessments shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior faculty member nominated by the Head of the Department shall do the evaluation process. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations. The grades earned by the students for Value Added Courses will be recorded in the Grade Sheet, however the same shall not be considered for the computation of CGPA

11.7 Assessment for Online Courses

Students may be permitted to credit two online courses (which are provided with certificate), subject to a maximum of six credits. The online course of 3 credits can be considered instead of one elective course. These online courses shall be chosen from the SWAYAM platform, provided the offering department conducts regular examination and provides marks. The credits earned shall be transferred and the marks earned shall be converted into grades and transferred, provided the student has passed in the examination as per the norms of the offering Institution. The details regarding online courses taken up by the student and marks/credits earned and the approval for the course from Head of the Institution shall be sent to the Controller of Examinations, in the subsequent semester(s) along with the details of the elective(s) to be dropped.

11.8 Attendance Marks

No marks are awarded for a student based on attendance. A student will be permitted to appear for the examination of a semester only if he/she has completed the study of that semester (clause 7.1).

11.11 Attendance and Assessment Record by Faculty:

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' for every semester which consists of attendance marked in each theory / Laboratory, the assessment marks and the record of class work (topics covered), separately for each course handled by the teacher. 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 assessment marks and attendance. The Head of the Department will affix his/her signature and date after due verification. At the end of the semester, the record should be verified by the Head of the Department who shall keep this document in safe custody (for seven years). The records of attendance and assessment of both current and previous semesters should be available for inspection.

12 REQUIREMENTS FOR APPEARING IN THE END SEMESTER EXAMINATIONS

- 12.1** A student shall normally be permitted to appear for the Semester End Examinations of the current semester if he/she has satisfied the semester completion requirements as per clause 7.
- 12.2.** Further, registration in the Semester End Examinations is mandatory for all the courses of the current semester as well as for the Reappearance course(s). Failing which the student will not be permitted to move to the next higher semester.
- 12.3** In the case of examination in project work, Mini-projects, Internship Project, industrial project and literature review, no student will be permitted to appear in the project work examination unless he /she has submitted the project report within the prescribed date (under normal circumstances).
- 12.4** A student shall become eligible for appearing in End Semester Examination only after he/she has paid all the fee prescribed by the college before the commencement of End Semester Examinations which includes course fee (including arrear if any), hostel fee, examination fee and any other fee decided on time to time.

13 PROCEDURE FOR REJOINING THE PROGRAMME

A student who is required to repeat the study of any semester for want of attendance/ progress/conduct or who desires to rejoin the programme after a period of discontinuance or who upon his/her own request is permitted by the authorities to repeat the study of any semester, may join the semester which he/she is eligible or permitted to join, only at the time of its normal commencement for a regular batch of students and after obtaining the approval from the Directorate of Technical Education and affiliating university. In the case of repeaters, the continuous assessment marks secured earlier in the repeated courses will be discarded. A new register number shall be assigned to the candidate.

14 PROCEDURE FOR TRANSFER STUDENTS (Student Migration and Credit Transfer)

Normalization of the Credits will be carried out in consultation with the Board of Studies of the programme concerned and approved by the Head of Institution, if a student migrates from other institutions to Sri Krishna College of Engineering and Technology or rejoins from previous regulation to this regulation.

15 PASSING REQUIREMENTS

A student who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End semester University Examinations] with a minimum of 45% of the marks prescribed for the end-semester University Examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and laboratory courses (including project work).

If a student fails to secure a pass in a theory course / laboratory course (except electives), the student shall register and appear only for the end semester examination in the subsequent semester. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the third attempt onwards if a student fails to obtain pass marks (IA + End Semester Examination), then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the University end semester examinations alone.

If a student fails to submit the report on project work on or before the date specified by the college/department, he/she is deemed to have failed in the project work and will be awarded grade U. (Under normal circumstances).

A student who lacks in attendance or who fails to submit the report on the 8th semester project (B.E. / B.Tech.), 9th and 10th (M.Tech. Integrated) semester project (or whose report is not accepted for reasons of incompleteness or other serious deficiencies) within the prescribed date or whose project work and viva-voce has been assessed as grade U (Under normal circumstances) will have to register for the project at the beginning of a subsequent semester following the current semester, redo, and submit the project report at the end of that semester. Continuous Assessment marks earned earlier for the project will be discarded.

If a student fails to appear for the viva-voce examination after submitting the report on project work on the date specified by the college / department, he/she will be marked as absent for the project work. Such students will be allowed to appear for the viva-voce examination at the next earliest opportunity, the project being evaluated at that time. Continuous Assessment marks earned earlier for the project will be considered.

16 AWARD OF LETTER GRADES

The award of letter grades will be decided based on relative grading principle. The relative grading is applicable to ONLY those students who have passed the examination as per the passing requirements enumerated above. For those students who have not passed the examination, U shall be awarded as shown in the below Table.

For those students who have passed the course, the relative grading shall be done. The marks of those students who have passed only shall be inputted in the software developed for relative grading. 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. For a given course, if the students' strength is greater than 30, the relative grading method shall be adopted. However, if the students' strength is less than 30 then the fixed grading shall be followed with the grade range as specified below.

O	A+	A	B+	B	C	U
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
U (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".

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

17 PROVISION FOR RECHECKING AND REVALUATION OF ANSWER PAPER

When the semester results are published and in case any candidate feels aggrieved, he / she can request for rechecking of answer scripts of the respective semester examinations. The candidate is also required to pay a nominal fee, as prescribed by COE office, for rechecking of the answer sheet. The candidate has to submit a request to the Controller of Examination within a week from the publication of the results. After rechecking the answer scripts, if a student feels that he is deserved for a different grade other than what he has been awarded, he can apply for revaluation. When the revaluation is completed the result will be published. Revaluation will be allowed only for theory courses. A candidate can apply for revaluation of answer scripts for not exceeding 5 courses at a time. Revaluation is not permitted for practical courses, and project work.

18 GRADE SHEETS

After the publication of the results, each student will be issued individual grade sheet for each Semester containing the following information:

- The list of courses enrolled during the Semester and the grade awarded.
- The Semester Grade Point Average (SGPA) and the cumulative Grade Point Average (CGPA) of all courses successfully cleared from First Semester (Third semester for Lateral Students) onwards.
- Credits enrolled and credits earned up to the current semester.

- Additional one credit courses completed, which is beyond the minimum 165 credits.

Computation SGPA to be done by dividing the sum of Credit Point of all Courses by the total number of credits registered in a Semester, leading finally to CGPA for evaluating student's performance at the end of two or more Semesters cumulatively.

Formula for SGPA & 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.

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

Where, C_i - is the Credit assigned to the i^{th} subject

GP_i - is the grade point corresponding to the grade in i^{th} subject. (Refer Table Above)

N -is the number of subjects registered during the particular semester in the case of SGPA and during all the semester in the case of CGPA

19 RETAINING PERIOD FOR EVALUATED ANSWER SCRIPTS

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.

20 ELIGIBILITY FOR THE AWARD OF DEGREE

20.1 A student shall be declared to be eligible for the award of the B.E. / B.Tech/M.Tech(Integrated) 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 course requirements, appeared for the End-Semester examinations and passed all the subjects prescribed in all the 8/10 semesters within a maximum period (as per clause) reckoned from the commencement of the first semester to which the candidate was admitted.
- III. No disciplinary action pending against the student.

20.2 CLASSIFICATION OF THE DEGREE AWARDED

20.2.1 FIRST CLASS WITH DISTINCTION

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

- Should have passed the examination in all the courses of all the eight semesters (10 semesters in case of M.Tech (5 yr Integ) and 6 semesters in the case of Lateral Entry) in the student's First Appearance within five years (six years in case of M.Tech (5 yr Integ) and four years in the case of Lateral Entry). Withdrawal from examination 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 (six years in case of M.Tech (5 yr Integ) and four years in the case of lateral entry) for award of First class with Distinction.
- Should NOT have been prevented from writing end semester examination due to lack of attendance in any semester.

20.2.2 FIRST CLASS:

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

- Should have passed the examination in all the courses of all eight semesters (10 semesters in case of M.Tech (5 yr Integ) and 6 semesters in the case of Lateral Entry) **within five years**. (six years in case of M.Tech (5 yr Integ) and Four years in the case of Lateral Entry).
- One-year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of five years (six years in case of M.Tech (5 yr Integ) and four years in the case of lateral entry) for award of First class.
- Should have secured a CGPA of not less than **6.50**.

20.2.3 SECOND CLASS:

All other students who qualify for the award of the degree shall be declared to have passed the examination in **Second Class**.

21 WITHDRAWAL FROM EXAMINATION

21.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by the Chairman, Sports Board and the HOD) be granted permission to withdraw from appearing for the end semester examination in any course or courses in ANY ONE of the semester examinations during the entire duration of the degree programme. The application shall be sent to the COE through the Head of the Institutions with required documents

21.2 Withdrawal application shall be valid only if the student is otherwise eligible to write the examination and if it is made prior to the commencement of the examination in that course or courses and also recommended by the Head of the Department.