

Rules and Regulations
CHOICE BASED CREDIT SYSTEM

for

B. Tech (CSE/ECE/IT)

Rules and Regulations

CHOICE BASED CREDIT SYSTEM

B.Tech Programmes

Applicable to the students admitted from the academic year 2015-2016 onwards

1. TITLE

These regulations shall be called “Choice Based Credit System”. In short, it is referred to as “CBCS REGULATIONS”.

2. SCOPE

2.1 The regulations provided herein shall apply to all the Undergraduate (UG) Programmes offered by all the Faculties of IIT Srirangam.

2.2 These regulations are quite comprehensive and include definitions of key terms, critical concepts, mechanics of calculations, role of various boards and committees; and the evaluation system.

3. DEFINITIONS

3.1 Choice-Based Credit System (CBCS): CBCS is a flexible system of learning that permits students to

1. learn at their own pace,
2. choose electives from a wide range of elective courses offered by the departments of IIT Srirangam,
3. adopt an inter-disciplinary approach in learning and
4. make best use of the expertise of available faculty.

3.2 Programme: Programme means Degree Programme, that is B.Tech Degree Programme.

3.3 Semester: ‘Semester’ means a term consisting of a minimum of 450 contact hours distributed over 90 working days spread over 15 weeks of five days duration each and six contact hours per day ($15 \times 6 \times 5 = 450$). The Semesters will be known as either Odd Semester or Even semester. The Semester from July to December will be Semesters I, III, V or VII depending upon the programme duration and similarly the semester from January to June will be Semesters II, IV, VI and VIII.

3.4 Discipline: It means specialization or branch of B.Tech Programme, like CSE, ECE etc.

3.5 Course: Course means a theory / practical / integrated theory with lab component subject that is normally studied in a semester, like Advanced Calculus for Engineers, Introduction to UNIX and C Programming, etc.

3.6 Head of the Institution: It means the Director of the Institution.

3.7 Academic Week: ‘Academic Week’ is a unit of five working days during which

distribution of work is organized from six contact hours of one hour duration on each day.

3.8 Credits: Credit is a kind of weightage given to the contact hours to teach the prescribed syllabus, which is in a modular form. One credit is allocated to 15 contact hours for theory and one credit is allocated to 30 contact hours for practical.

4. ADMISSIONS

4.1 Indian Institute of Information Technology, Srirangam, hereafter referred to as the Institute, offers a four-year Bachelor of Technology (B.Tech) programme in Computer Science & Engineering (CSE), Electronics & Communication Engineering (ECE) and Information Technology (IT).

4.2 Admissions to the B.Tech programmes of the Institute are made once a year in July through the Joint Entrance Examination (JEE) Main conducted by the Central Board of Secondary Education (CBSE). The Counseling of the qualified candidates of the said examination is managed by Central Seat Allocation Board (CSAB)/Joint Seat Allocation Authority(JoSAA)/equivalent apex body. The minimum academic qualification for admission is a pass in the final examination of 10+2 system or its equivalent with Physics and Mathematics as compulsory subjects and any one from Biology, Bio-technology, Chemistry and Computer Science as optional subjects. The procedures and other requirements for admission are specified in the JEE Information Brochure brought out every year and CSAB website (www.csab.nic.in).

4.3 Reservations for Scheduled Caste (SC), Scheduled Tribe (ST), Other Backward Classes (OBC) and Person with Disability (PwD) candidates are as per the Government of India existing rules. The reserved seats are filled on the basis of counseling done as per central Government norms.

4.4 Admission to an undergraduate programme of the Institute requires that the applicant

- i. be eligible (i.e. passed XII standard public examination or equivalent),
- ii. satisfies the requirements of the laid-down admission procedure and
- iii. pays the prescribed fees and other dues.

4.5 All students admitted provisionally or otherwise to any programme shall submit copies of their mark sheets, provisional certificates, photo ID proof etc. of the qualifying examination and other documents at the time of admission or by the last date.

4.6 The admission of a student who fails to submit the prescribed documents by the specified date or fails to meet other stipulated requirement(s) may be cancelled by the Senate. The Senate may also cancel the admission of a student at a later time if it is found that the student was unfit at the time of admission or had supplied some false information/certification or suppressed relevant information while seeking admission to the Institute.

4.7 All admissions to the B.Tech programmes shall be formally approved by the Institute's Undergraduate Committee of Senate (UGCS) – a subcommittee of the Senate of the Institute.

4.8 The Institute is essentially a residential one and unless otherwise exempted/permitted, every student shall be required to reside in, and be a boarder of a Hall of residence, to which they are assigned.

5. PROGRAMME STRUCTURE

5.1 Course: A Course is a component (a paper) of a programme. All the courses need not carry same weightage. The course should define learning objectives and learning outcome. A course may be designed to involve lectures / tutorials / laboratory work / seminar / project work/ practical training / report writing / Viva voce, etc or a combination of these, to meet effectively the teaching and learning needs and the credits may be assigned suitably.

5.2 Course Code: Each course shall have an alphanumeric code, which includes subject code AB (CE for Computer Science, CH for Chemistry etc.), the first two digit number 12 (where 1 represents first year and 2 represents second semester) and the last two digit number 01 which represents the number of papers.

5.3 Weightage: Each Programme will consist of Humanities and Social Sciences (HS), Basic Sciences (BS), Engineering Sciences (ES), Professional Core (PC), Professional Electives (PE), Open Electives (OE), Employability Enhancement Courses (EEC). The HS courses will carry 5-10% weightage, BS courses will carry 15-20% weightage, ES courses will carry 15-20% weightage, PC courses will carry 30-40% weightage, PE courses will carry 10-15% weightage, OE courses will carry 5-10% weightage, EEC courses will carry 10-15% weightage. However the Head of the concerned Faculty subject to the approval of the Director of the Institute shall have power to consider 5% variation in the weightage.

5.4 Humanities and Social Sciences: All the Humanities and Social Science courses should compulsorily be studied by a student.

5.5 Basic Sciences: Basic Science courses include compulsory and elective courses. Compulsory courses cater to all departments: it consists of Mathematic courses, Physics course, Chemistry course, Physics and Chemistry laboratories. Basic Science Open Elective courses contain department specific advanced courses.

5.6 Engineering Sciences: Engineering Science completely opens the doors to different specializations. The goal of this course is to create engineers of tomorrow who possess the knowledge of all disciplines and can apply their interdisciplinary knowledge in every aspect. It could be any branch of engineering - Civil, Computer Science and Engineering, Electrical, Mechanical, etc.

5.7 Professional Core: A course which should compulsorily be studied by a student for the requirement of a Programme.

5.8 Professional Elective: Generally a course can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline or nurtures the candidate's proficiency/skill is called Professional Elective Course. In 6th semester, every student has to choose 3 stream electives as level I from the list of offered electives by the concern department. In 7th semester, every student selects 3 electives from the level II

of the same stream electives.

1.8.1 Guided Study: Guided Study is doing courses outside the curriculum with the supervision of the guide during a regular semester. A student belonging to the standing category may be provided the option of Guided study to acquire proficiency in an area of his/her choice, on recommendation of the Faculty Advisor / Guide and Department Course Committee. Guided Study will be available to the extent of a maximum of one course per semester with effect from the fifth semester, subject to a maximum of two courses in the entire programme. This option is strictly subject to the availability and willingness of the instructor offering the course in any related streams of Engineering Discipline. Guided Study papers must not overloading the candidate at any stage. Registration, Examination / Evaluation and submission of grade etc., will also be governed in the similar way as other courses of the curriculum.

5.9 Open Electives: An elective course chosen generally from other discipline/ subject, with an intention to seek interdisciplinary exposure is called an open elective. Every student shall earn 6 credits by choosing the 2 of the open elective courses from the open elective list offered by different departments. While choosing the electives, students shall ensure that they do not opt for the courses with syllabus contents of which are similar to that of their departmental core/elective courses.

5.9.1 Self Study Courses: An elective course designed to acquire a special / advanced knowledge, such as supplement study/support study to a project work, and a candidate studies such a course on his own with an advisory support by a teacher is called self study. A student shall undergo minimum 1 self study courses for the entire duration of study.

5.9.2 Online Courses: Students shall earn credit through on line courses offered by International/National recognized Institutions. Normally one credit shall be assigned for these courses.

5.10 Employability Enhancement Courses:

It contains the following courses:

- 1) **Mini Project:** Mini Project is a laboratory oriented course which will provide a platform to students to enhance their practical knowledge and skills by development of small systems/application.
- 2) **Inventions and Modelling:** Students are informed to make best efforts to use their innovation and creativity to form a new idea and make a visible product out of it. This course entrust the best practices for parametric curriculum through hands-on-practice and acquire the knowledge needed to complete the process of designing models from conceptual sketching to solid modelling to assemble products to draw a final product.
- 3) **R & D Project:** The R & D project work shall be jointly supervised by a supervisor of the department and an expert from industry or R & D lab, as a joint supervisor from the organization.
- 4) **Graduate Seminar:** Seminar should be based on thrust areas in state of art technologies. Students should do literature survey and identify the topic of seminar and finalize in consultation with Guide/Supervisor. Students should use multiple literatures and understand the topic and compile the report in standard format and present in front of Panel of Examiners appointed by the Head of the Department/Institute of respective Programme.

Seminar should be assessed based on following points:

- i) Quality of Literature survey and Novelty in the topic relevance to the specialization
- ii) Understanding of the topic
- iii) Quality of Report and Oral Presentation
- 5) **Major Project:** Every student must do one major project in the 4th year. The minimum duration of project is 6 months. Students can do their major project in Industry or R&D Lab or in house or combination of any two.

5.11 Audit Course:

An audit course is one in which the student attends classes, does the necessary assignments, and takes exams. However, the arrangement is between the instructor and the student. The Institute encourages students towards extra learning by auditing for additional number of courses. The permission to audit a course has to be taken from the concerned faculty. However, the auditing of course(s) is permitted only after a student has satisfactorily completed minimum credit of the course work. Auditing of a course is permitted only up to the last date for adding of courses, as given in the Institute's Academic Calendar. Dropping of an audit course, however, can be done at any time of the semester by filling a formal application for the same. Grades for a course registered as an audit course may be A+, A, B+, B, C or D and shall be displayed on the Grade Sheet of the student for the semester. However, the grades obtained in the courses registered as audit course shall not be counted for the calculation of the GPA. The examination fees for the audit courses will be paid separately.

6. EVALUATION – MARKS AND GRADING SYSTEM

- 6.1** Evaluation will be done on a continuous basis. The Student's performance in a course will be evaluated by assigning a letter grade.
- 6.2** For each course, the weightage for internal and external component shall be as per the examination scheme of particular programme of concerned faculty duly approved by Academic Council.
- 6.3** The internal component of the course will be evaluated by the faculty on the basis of mid-term tests, assignments, seminars, quizzes, practical work, viva-voce etc.
- 6.4** Minimum requirements for successfully completing the undergraduate programme at the Institute is 175 to 200 credits.

7. AWARD OF DEGREE

For all B. Tech programs, the minimum period is four academic years but in any case not more than 8 academic years. The degree shall be awarded on the basis of CGPA (Cumulative Grade Point Average).

8. FACULTY ADVISER

To help the students in planning their courses of study and to render general advice regarding either the academic programme or any other activity, the Head of the Department concerned, will assign every year, a certain number of students from the first semester to a faculty member who will be called Faculty Adviser. The set of students thus assigned will continue to be under the guidance of this Faculty Adviser till they complete the programme.

9. CLASS COMMITTEE

9.1 Constitution of the Class Committee

For all the branches of study during the first semester, a common class committee will be constituted by the Dean (Academic)/equivalent cadre and for other semesters, separate class committees will be constituted by the respective Heads of Departments, as given below:

9.1.1 The First Year Class Committee

Chairman: A Professor, preferably not teaching the first year class.

Members

1. Faculty of all the courses of study
2. Two student member from each section to be nominated by the First Year Coordinator.

9.1.2 III TO VIII Semester Class Committees

Chairman: One of the senior faculty of the department concerned preferably, not associated with the teaching of that class, to be nominated by the Head of the Department concerned.

Members

1. Faculty of all the courses of study
2. Four student members from the class concerned to be nominated by the Head of the Department concerned.

9.2 Functions of the Class Committee

The class committee shall meet thrice during the semester. The first meeting will be held within two weeks from the date of commencement of the semester in which the nature of the mid-term tests as well as broad assessment procedure for the different tests and practical courses will be discussed. The second and third meetings will be held two weeks after the first and second mid-term tests respectively to meaningfully interact and express opinions and suggestions to improve the effectiveness of teaching - learning process and analyze the performance of the students in the mid-term tests. The chairman of the class committee should send the minutes of the class committee meetings to the Dean (Academic)/equivalent cadre through the Head of the Department, immediately after the class committee meetings.

10. EXAMINATIONS

Performance in each course of study shall be evaluated on (i) Continuous Internal Assessment throughout the semester and (ii) End Semester Examinations.

10.1 Each course, theory, practical and integrated theory with lab component (including project work & viva voce Examinations) shall be evaluated for a maximum of 100 marks

a) Theory Courses

For all theory courses, the Continuous Internal Assessment will carry 50 marks and the End Semester Examination will carry 50 marks.

b) Practical courses

In each practical course, the Continuous Internal Assessment will carry 50 marks and the End Semester Examination will carry 50 marks.

c) Integrated Theory Courses with Laboratory Component

If there is an integrated theory with lab component, the Continuous Internal Assessment will carry 50 marks and the End Semester Examination will carry 50 marks.

11. ASSESSMENT PROCEDURE - TESTS AND EXAMINATIONS

11.1 In each theory course and in the theory portion of each integrated theory with lab component course, the assessment pattern will be as follows:

Sl.No	Assessment	Duration	Max marks	Conversion
1.	Mid Term Test I	1.5 hour	40	20
2.	Mid Term Test II	1.5 hour	40	20
3.	Mid Term Test III	1.5 hour	40	20
3.	Assignments/Seminar/Quiz	-	2 x 5	5
4.	Attendance	-	5	5
4.	End semester Examination	3 hours	100	50

Marks of best two tests out of three will be taken for internal assessment. The Assignments shall be in the form of tutorial problems, small projects, quizzes, design problems etc. depending upon the subject content/s. The assignments will cover both the theory and the problems of the portion covered for the Mid Term test. The mark for attendance range is given below

Attendance	Marks
75 – 80%	1
81 – 85%	2
86 – 90%	3
91 – 95%	4
96 – 100%	5

11.2 In each practical course and in the integrated theory with lab component course, the assessment pattern will be as follows:

Evaluation	Marks
Continuous Assessment	50
End semester Examination	50

11.2.1 The assessment in laboratory course will be based on supervision of the student's work, their performance in viva-voce examinations and team work, the quality of their work as prescribed through laboratory manual, model test and an end- semester test that contains an experiment and/or a written exam.

11.2.2 For the integrated theory with lab component courses, the percentage weightage between theory and practice will be based on the credits allotted for the theory and practice of that course.

11.2.3 For design and drawing subjects, the duration of test/ semester examination may be different from other theory subjects and it will be given by the corresponding faculty

member.

11.3 Question Paper Setting and Valuation: The setting of question papers and valuation of answer scripts for all the examinations shall be carried out by the faculty who has handled the course. However, the Director will have the discretion to appoint any other teacher or external examiner for setting question papers and valuing the answer scripts.

11.3.1 Question Pattern:

The question paper for the end semester examination may be set for 100 marks without any choices and should have FIVE full questions with sub divisions in each question. The questions should be uniformly distributed among the FIVE full questions covering the entire syllabus. For example if there are five units, the marks for each unit should be 20. The duration of the examination is three hours.

11.4 Major Project/Mini Project: Students can do their major project in Industry or R&D Lab or in house. Mini Project is a laboratory oriented course which will provide a platform to students to enhance their practical knowledge and skills by development of small systems/application.

11.4.1 The project evaluation for the B.Tech programme shall be carried out by a Project committee (PC) comprising, Head of the Department, project coordinator and the project guide/s.

11.4.2 The assessment of the project work is as follows:

Subcomponent	Weight
Supervisors Assessment (Review I, II & III)	40%
Project Report (To be assessed by the PC)	10%
External Assessment (Final viva voce)	50%

11.4.3 If the candidate fails to obtain 50% of the continuous assessment marks, he/she will not be permitted to submit the report for that particular semester and has to re-enroll for the same in the subsequent semester.

11.4.4 The final project viva voce shall be conducted by the PC along with an external examiner from IITs/IISc/NITs/IITs/CSIR Labs/Government Research Laboratories/Government and Government aided Institutions/Public sector undertaking.

The Break-up of marks for the final project viva-voce is as follows:

Project report	20 marks (10 marks External + 10 marks PC)
Presentation	10 marks (5 marks External + 5 marks PC)
Viva-Voce	20 marks (10 marks External + 10 marks PC)

11.5 R & D Project: In the case of R & D project, the project work shall be jointly supervised by a supervisor of the department and an expert from industry or R&D lab, as a joint supervisor from the organization and the student shall be instructed to meet the supervisors periodically and to attend the review committee meetings for evaluating the progress.

11.6 Inventions and Modelling: Students will earn credits for the creativity, design, Uniqueness of the product, novelty of the product, peer evaluation, social importance, outcome of the product and report.

11.7 Re-Test: Students who have missed the first or second Mid Term test with a valid reason can register with the consent of faculty and HOD concerned for the Re-Test examination which shall be conducted soon after the completion of the third mid-term test. The Re-Test examination shall be conducted for 40 marks comprising the syllabus of first, second and third mid-term tests. If a student who has missed both the first and second mid-term test with a valid reason he/she must write two Re-Tests.

11.8 Eligibility for Appearing in Semester Examination: 100% attendance is desirable for a student to appear for the end semester examination in a course of any semester, provided there is no adverse reports regarding his/her conduct by the Head of the Department. The minimum attendance for appearing for the semester examination is 75% in each subject. Those students, whose attendance falls below 75% but above 65% in a subject, shall attend mandatory classes after the current session. Only those students who have completed the mandatory classes will be eligible for condonation and be permitted to appear for examination. A certificate from the concerned faculty member regarding successful completion of mandatory classes by the student has to be sent to the Dean (Academic)/equivalent cadre, for the student to become eligible for appearing examination. However the mandatory classes' requirement can be relaxed for students for the following reasons:

11.8.1 Undergoing internship in Industries with prior permission, if the internship is approved officially. However, the maximum period of such extension is decided by the Dean (Academic)/equivalent cadre.

11.8.2 Participating in the Institute approved extra-curricular activities such as Sports, Games, and Cultural meets, Seminar, Workshop, and Conference with prior permission. The maximum period for such events is limited to 10 days.

11.8.3 Prolonged illness and/or hospitalization and admitted to hospital with appropriate medical certificate with an endorsement from the institute medical officer to the HoD, on the date of rejoining classes after the illness.

11.8.4 Students who have less than 65% of attendance have to rejoin the programme after a year along with the next batch and undergo the courses for which the attendance was less than 65% earlier.

11.9 Condonation of Attendance: 100% attendance is desirable for a student. However, the minimum attendance requirement is 75%. For cases of casual absenteeism, no condonation of attendance is permissible. If a student has less than 75% attendance, he/she should be assigned 'U' grade in that subject along with 'P' as the attendance code. The percentage of attendance in a subject shall be computed as:

(i) For calculation of attendance in normal cases:

$$\text{Attendance \%} = \frac{\text{Actual No. of classes attended}}{\text{Total No. of classes held till date of compilation of attendance}} \times 100$$

This should be 75% for the student to appear for semester examinations. Such cases will not come under the purview of condonation of attendance.

(ii) For calculation of attendance in case of prolonged illness and/or hospitalization with medical certificate:

$$\text{Attendance \%} = \frac{\text{Actual No. of classes attended}}{A-B} \times 100$$

A: Total No. of classes held till date of compilation of attendance

B: No. of classes held during the days of prolonged illness and or hospitalization

This should be 75% for condonation.

Under any case, a student should have more than 65% attendance calculated as normal cases mentioned above to be eligible for condonation and for appearing in semester examination.

The percentage of attendance is calculated up to 3 days before the last working day in the respective semester, and the percentage will be published in the notice board.

The students of VII and VIII semesters have the requirements for attending campus recruitment, projects, extra-curricular activities etc. In view of this, their attendance for the above will be considered as on-duty (OD).

11.10 Performance Analysis Committee: The Performance Analysis Committee (PAC) will consist of the same members as the class committee but including the Head of the Department and excluding the student members. The meeting of the PAC is to be held within seven days from the last day of the end semester examinations to analyze the performance of the students in all courses of study and finalize the grade ranges for each course and forward the statement of grades to the Dean (Academic)/equivalent cadre immediately, through the Head of the Department. The PAC, by collective wisdom, should ensure that the clustering / grading / pass-fail decisions have been reasonably balanced.

The attendance registers of all the courses along with all the mid-term test marks, assignment marks, end-semester marks, grades and grade-ranges entered in the register are also to be sent to the Dean (Academic) /equivalent cadre immediately through the Head of the Department.

The Dean (Academic)/equivalent cadre shall go through the statement of grades (and the attendance register). In case of any problem that cannot be set right by the Dean (Academic) /equivalent cadre, the Chairman (Senate) is authorized to take appropriate action in this regard. The finalized list shall then be conveyed to the Chairperson, PAC. It is proposed that the Chairperson, PAC will then arrange to display a copy of the statement of grades in the departmental notice board. It is expected that the results could be displayed within a day from the date of the finalization of the grades. Finalization of grades for supplementary examinations shall be made by the HOD and the faculty member concerned. The results of which shall also be arranged to be displayed on the department notice board

12. AWARD OF GRADES

All assessments of the course will be done by relative grading with flexibility to fix the range of mark for each grade. The range for each grade will be fixed based on the highest mark and class average mark. The minimum mark to pass in the End Semester Examination for B. Tech programme is 20 in order to maintain the standard of the institute. It is not mandatory to give 'A+' grade if the students do not deserve for the same.

Grade	Grade Points	Remarks
A+	10	Outstanding
A	9	Excellent
B+	8	Very Good
B	7	Good
C	6	Above Average
D	5	Average
F	0	Fail
AB	0	Absent
U	0	Prevented
V	0	Prevented
WH	0	Withheld

Students scoring less than the passing minimum marks shall be deemed to have failed and be given 'F' grade. The letter grade 'U' indicates prevention from appearing for Semester Examination due to shortage of attendance (65-75%), 'V' indicates prevention due to lack of attendance (< 65%).

A student having U grade need not redo the course, but can appear in the supplementary examination in the following semester after attending mandatory classes. However, a student having V grade (i.e. with attendance of < 65 %) shall necessarily redo the course, when it is offered again. The U/V grade once awarded stays in the record of the student and is deleted when he/she completes the course later, indicating also the number of attempts made in that course. The CGPA will be accordingly revised deleting the 'U/V' in the earlier attempts in that course.

The grade acquired by the student later will be indicated in the grade card of the appropriate semester. Students with attendance lack shall appear for supplementary examination as and when conducted

A student who earns a minimum of 5 grade points in a course is declared to have successfully completed the course.

13. REVALUATION OF ANSWER SCRIPTS

Students can look at the valued answer scripts of the semester/supplementary examinations (not laboratory examinations) and can get it retotalled/revalued by the faculty concerned and can change the grades, if necessary. The teacher may re-examine the case and forward a revised grade, to the Dean (Academic) /PAC/equivalent cadre through the Head of the Department, performance analysis committee, if such a necessity arises.

14. AUTHORIZED BREAK OF STUDY

14.1 Candidate may avail authorized break of study for valid reason such as accident or hospitalization due to prolonged ill health. In duration of study two semester break period may be permitted.

14.2 If the student does not report back to the department, even after the extended break of

study, the name of the candidate may permanently deleted from the institution enrolment.

15. MOVEMENT TO HIGHER SEMESTER

15.1 A student proceeding to the III Semester should satisfy the following condition: To move to the third semester, a student should have earned a minimum of 14 credits in the first semester. Otherwise, the student has to join only in the first year. However, after satisfying this stipulated condition such students will be permitted to rejoin the Institute at the beginning of the third Semester in a latter year along with the regular students.

15.2 A student who is permitted to discontinue may rejoin the course at the appropriate semester only along with the regular students at the time of normal commencement of that semester.

15.3 A student who discontinues and rejoins shall be governed by the rules, regulations, courses of study and syllabus in force, at the time of his/her rejoining the course.

16. GRADE CARDS

16.1 After the results are declared, Grade Cards will be issued to each student which will contain the list of courses for that semester and the grades obtained by the student.

16.2 The Grade Point Average (GPA) for each semester will be calculated only for those students who have passed all the subjects of that semester.

16.3 Similarly Cumulative Grade Point Average (CGPA) up to any semester will be calculated only for those students who have passed all the subjects up to that semester. GPA is the ratio of the sum of the products of the number of credits of a course (C_i) and the grade points scored in that course (GP_i), taken for all the courses, to the sum of the number of credits of all the courses (n) in the semester.

$$GPA = \frac{\sum_1^n C_i * GP_i}{\sum_1^n C_i}$$

where n is the number of courses in that semester.

On successful completion of the programme, the CGPA will be calculated as follows:

$$CGPA = \frac{\sum_1^N C_i * GP_i}{\sum_1^N C_i}$$

where C_i is the credit and GP_i is the grade point obtained by the student and N is the total number of courses for the entire programme.

17. CLASSIFICATION OF THE DEGREE AWARDED

After successful completion of the programme, degree will be awarded as per the following classifications based on the CGPA.

1.1 Students who successfully complete the programme with passing all the subjects in the first appearance and getting CGPA of 9 and above will be declared to have passed B.Tech. with Honours.

- 1.2** Students who complete the programme within eight consecutive semesters getting a CGPA of **8** and above, passing all the courses in the first appearance will be declared to have passed in first class with distinction. For this purpose, withdrawal from examination and authorized break of study will not be counted.
- 1.3** Students who get a CGPA of **6.5** and above, but below **8** and who complete the course within 9 semesters plus authorized break, will be declared to have passed in first class.
- 1.4** Students who get a CGPA of below **6.5** and who complete the course within the maximum prescribed period after joining the Institute will be declared to have passed in second class.

18. ELIGIBILITY FOR THE DEGREE

A student shall be eligible for the award of the degree of the Bachelor of Technology (B.Tech) only if the student:

- 18.1** Has undergone the prescribed programme of study by earning the minimum total number of credits specified in the curriculum of the relevant programme of study within a maximum duration of 8 years.
- 18.2** Has no dues to the Institution, Library, Hostels, etc.
- 18.3** Has no disciplinary action pending against him/her.

19. VACATION INTERNSHIP

Student is required to undergo the internship program either in industry or in R & D Lab at the end of third year. The student must undergo the internship during the summer vacation for a total period of 2-4 weeks.

The evaluation of training should be made by Head of the department and faculty members. One seminar presentation should be made by the student, and the marks obtained during the seminar are taken for the internal assessment. After completion of training the student should submit a report duly signed by the responsible person in the industry.

20. PERSONALITY AND CHARACTER DEVELOPMENT

All students shall enroll admission in any one of the personality and character development programmes (NCC/NSS/YRC/RRC) and undergo training for about 80 hours.

- 20.1** National Cadet Corps (NCC) will have about 10 parades during the four years.
- 20.2** National Service Scheme (NSS) will have social service activities in and around the Institution.
- 20.3** Youth Red Cross (YRC) will have activities in and around the institution.
- 20.4.** Red Ribbon Club: Student must attend the awareness programme organized by the RRC

21. DRESS CODE

21.1 Boys : All the boy students should come with formal dress to the class rooms & computer labs, preferably full pant and shirt.

21.2 Girls: All the girl students should come with formal dress to the class rooms & computer labs, in saree or chudidhar with dupatta. Wearing informal dresses in the class rooms & labs are strictly prohibited.

22. RAGGING

Ragging is a criminal and non-bailable offence, punished by dismissal from the Institute, fine of Rs. 10,000 and imprisonment up to two years.

23. REVISION OF REGULATIONS AND CURRICULUM

The Senate may from time to time revise, amend or alter the regulations, courses of study and syllabus as and when found necessary. Any other relevant rules needing urgent revisions can be framed and implemented by the Director/Chairman of the Senate and ratified in the subsequent Senate meeting.

24. POWER TO MODIFY

Notwithstanding all that has been stated above, the Senate has the right to modify any of the above rules and regulations from time to time.