ACADEMIC RULES AND REGULATIONS

SRIT-R19

B. Tech (Regular- Full time)
(Effective for the students admitted into I Year from the Academic year **2019- 2020**)
&

B. Tech (Lateral Entry Scheme)
(Effective for the students admitted into II Year from the Academic year **2020- 2021**)

SRINIVASA RAMANUJAN INSTITUTE OF TECHNOLOGY
(Autonomous)
Affiliated to JNTUA & Approved by AICTE
Accredited by NAAC with 'A' Grade & NBA (CSE, ECE & EEE)
Rotarypuram Village, B K Samudram Mandal,
Ananthapuramu - 515701.

FAILURE TO READ AND UNDERSTAND THE REGULATIONS IS NOT AN EXCUSE

Preliminary Definitions and Nomenclature

AICTE: Means All India Council for Technical Education, New Delhi.

Autonomous Institute: Means an institute designated as Autonomous by University Grants Commission (UGC), New Delhi in concurrence with affiliating University (Jawaharlal Nehru Technological University Anantapur, Ananthapuramu).

Academic Autonomy: Means freedom to an institute in all aspects of conducting its academic programs, granted by UGC for Promoting Excellence.

Academic Council: The Academic Council is the highest academic body of the institute and is responsible for the maintenance of standards of instruction, education and examination within the institute. Academic Council is an authority as per UGC regulations and it has the right to take decisions on all academic matters including academic research.

Board of Studies (BOS): BOS is an authority as defined in UGC regulations, constituted by Head of the Organization for each of the departments separately. They are responsible for curriculum design and modification in respect of all the programs offered by a department.

Academic Year: It is the period necessary to complete an actual course of study within a year. It comprises two main semesters i.e., (one odd and one even).

Branch: Means specialization in a program like B. Tech degree program in Civil Engineering, B. Tech degree program in Computer Science and Engineering etc.

Backlog Course: A course is considered to be a backlog course, if the student has obtained a failure grade in that course.

Basic Sciences: The courses offered in the areas of Mathematics, Physics, Chemistry etc., are considered to be foundational in nature.

Commission: Means University Grants Commission (UGC), New Delhi.

Choice Based Credit System: The credit based semester system is one which provides flexibility in designing curriculum and assigning credits based on the course content and hours of teaching along with provision of choice for the student in the course selection.

Certificate Course: It is a course that makes a student to have hands-on expertise and skills required for holistic development in a specific area/field.

Compulsory course: Course required to be undertaken for the award of the degree as per the program.

CIA: Continuous Internal Assessment.

Core: The courses that are essential constituents of each engineering discipline are categorized as professional core courses for that discipline.

Course: A course is a subject (Theory/Practical) offered by a department for learning in a particular semester.

Course Outcomes: The essential skills that need to be acquired by every student through a course.

Credit: A credit is a unit that gives weight to the value, level or time requirements of an academic course. The number of 'Contact Hours' in a week of a particular course determines its credit value.

Credit point: It is the product of grade point and number of credits for a course.

Cumulative Grade Point Average (CGPA): It is a measure of cumulative performance of a student overall the completed 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.

Curriculum: Curriculum incorporates the planned interaction of students with instructional content, materials, resources, and processes for evaluating the attainment of Program Outcomes and Program Educational Objectives.

Department: An academic entity that conducts relevant curricular and co-curricular activities, involving both teaching and non-teaching staff, and other resources in the process of study for a degree.

Detention: Student who does not obtain minimum prescribed attendance/credits shall be detained in that semester.

Elective Course: A course that can be chosen from a set of courses. An elective can be Professional Elective and/or Open Elective.

Evaluation: Evaluation is the process of judging the academic performance of the student in her/his courses. It is done through a combination of continuous internal examinations and semester end examinations.

Grade: It is an index of the performance of the students in a said course. Grades are indicated by alphabets.

Grade Point: It is a numerical weight allotted to each letter grade on a 10 - point scale.

Institute: Means **Srinivasa Ramanujan Institute of Technology**, Ananthapuramu unless indicated otherwise by the context.

Massive Open Online Courses (MOOC): MOOC courses inculcate the habit of self-learning. MOOC courses would be additional choices in all the elective group courses.

Minor: Minor are coherent sequences of courses which may be taken in addition to the courses required for the B. Tech degree.

Pre-requisite: A specific course or course, the knowledge of which is required to complete before student register another course at the next grade level.

Professional Elective: It indicates a course that is discipline centric. An appropriate choice of minimum number of such electives as specified in the program will lead to a degree with specialization.

Program: UG Degree Program Bachelor of Technology (B. Tech); PG degree program: Master of Technology (M. Tech).

Program Educational Objectives: The broad career, professional and personal goals that every student will achieve through a strategic and sequential action plan.

Program Outcomes: The essential skill sets that need to be acquired by every student during her/his program of study. These skill sets are in the areas of employability, entrepreneurial, social and behavioral.

Project work: It is a design or research based work to be taken up by a student during his/her final year to achieve a particular aim. It is a credit based course and is to be planned carefully by the student.

Registration: Process of enrolling into a set of courses in a semester of a program.

Regulations: The regulations, common to all B. Tech programs offered by Institute, are designated as "SRIT Regulations - R19" and are binding on all the stakeholders.

Semester: It is a period of study consisting of 16 to 18 weeks of academic work equivalent to normally 90 working days. Odd semester commences usually in July and even semester in December of every year.

Semester End Examinations: It is an examination conducted for all courses offered in a semester at the end of the semester.

Semester Grade Point Average (SGPA): It is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student.

Socially Relevant Project (SRP): A project which is useful to the society by transferring the technology in the form of providing awareness, short term training, demonstration of machinery/tools/projects etc., as part of social responsibility.

SRINIVASA RAMANUJAN INSTITUTE OF TECHNOLOGY
ACADEMIC RULES AND REGULATIONS
SRIT-R19

(Effective for the students admitted into I year from the Academic Year 2019-2020 onwards)

1) Programs offered by the Institute:

The programs offered at present as specializations for the B. Tech. course from 2019-2020 are given in Table 1.1.

Table 1.1 Programs Offered

S. No.	Name of the Program	Program Code
1	Civil Engineering	01
2	Electrical and Electronics Engineering	02
3	Mechanical Engineering	03
4	Electronics and Communication Engineering	04
5	Computer Science and Engineering	05

2) Medium of Instructions:

The medium of instruction is **English** for all courses, examinations, seminar presentations and project work. The curriculum will comprise courses of study as given in course structure, in accordance with the prescribed syllabi.

3) Minimum Qualification for Admission:

A candidate seeking admission to the first semester of the eight semester B. Tech. Degree Program should have passed the Intermediate Examination of the Board of Intermediate Education of Andhra Pradesh with Mathematics and Physical Sciences (Physics and Chemistry) as optional courses or any other equivalent examination thereto recognized by Jawaharlal Nehru Technological University Anantapur, Ananthapuramu / Govt. of Andhra Pradesh, as per AICTE guidelines.

For admissions into the third semester of B. Tech Degree Program under lateral entry scheme a candidate should have passed diploma in the respective branch of study as per AICTE guidelines.

4) Structure of the Program:

Every Program will have a curriculum consisting of Foundation Courses, Core Courses, Elective Courses, Theory Courses, Laboratory Courses, Design and Drawing Courses, Project Work and Internship, Mandatory Courses which are classified as shown in Table

The list of elective courses may also include courses from allied discipline.

Table 4.1 Category wise distribution of credits

S. No.	Name of the Program	Breakup of Credits
1	Humanities and Social Sciences (HSMC), including Management Courses.	12*
2	Basic Science Courses (BSC), including Mathematics, Physics and Chemistry.	25*
3	Engineering Science Courses (ESC), including Workshop, Drawing, Basics of Electrical / Electronics / Mechanical/ Computer Engineering.	24*
4	Professional Core Courses (PCC), relevant to the chosen specialization / branch.	48*
5	Professional Electives Courses (PEC), relevant to the chosen specialization / branch.	18*
6	Open Elective Courses (OEC), from other technical and/or Emerging course areas.	18*
7	Project Work (PROJ) / Seminar, Internship in Industry or elsewhere.	15*
8	Mandatory Courses [Environmental Sciences, Induction training, Indian Constitution, Essence of Indian Knowledge Tradition]	Non-Credit
Total		**160**

Minor variation is allowed as per need of the respective disciplines.

Each course is allotted certain number of credits based on its importance to the Programme and the number of contact periods per week allotted to it in the time-table.

A credit is equivalent to one hour of teaching (Lecture/Tutorial) or two hours of practical/field work, as per AICTE/UGC.

Choice Based Credit System (CBCS) provides choice for students to select from the prescribed courses. Each course is assigned certain number of credits as shown in Table 4.2.

Table 4.2 Credits for various courses

Type of Course	Semester	
	Periods	**Credits**
Theory (Lecture/Tutorial)	02 / Week	02
	03 / Week	03
	04 / Week	04
Practical(Laboratory/Field Work)	02 / Week	01
	03 / Week	1.5
	04 / Week	02

Internship/Industrial Training/Research Projects in National Laboratories/Academic Institutions	4 weeks after IV/VI semester during summer vacation	02
Socially Relevant Project	15 / Semester	2
Non-Credit Mandatory Courses	02 /Week	0
Project Stage-I	04 / Week	02
Project Stage-II	14 / Week	07

The curriculum is designed for every program so that the total credits will be 160 (120 for lateral-entry students). To become eligible for the award of degree, every student shall earn all the credits of 160/120 specified in the curriculum of the program.

5) **Semester Structure:**

Each academic year is divided into TWO semesters (one odd + one even). Each semester shall be of 21 weeks duration and this period includes time for registration of courses, course work, examination preparation, and conduct of examinations. A sample Academic calendar is presented in Table 5.1.

Table 5.1 A Sample Academic Calendar

Semester	Schedule		Duration	
First Semester (21 Weeks)	I Spell Instruction Period	8 Weeks	19 Weeks	
	I Mid Examinations	1 Week		
	II Spell Instruction Period	8 Weeks		
	II Mid Examinations	1 Week		
	Preparation and Practical Exams	1 Week		
	Semester End Examinations		2 Weeks	
	Semester Break, Reg/Supple Exams		2 Weeks	
Second Semester (21 Weeks)	I Spell Instruction Period	8 Weeks	19 Weeks	
	I Mid Examinations	1 Week		
	II Spell Instruction Period	8 Weeks		
	II Mid Examinations	1 Week		
	Preparation and Practical Exams	1 Week		
	Semester End Examinations		2 Weeks	
	Summer Vacation, Reg/Supple Exams		8 Weeks	

Apart from the regular semester end examinations, the college will also schedule and conduct supplementary examinations for all courses for the benefit of students with backlogs. Such students who are writing supplementary examinations as supplementary candidates, may have to write more than one examination per day.

Instant examination for VIII semester courses will be conducted only for the benefit of those outgoing students who failed or who are absent for final semester exams. The instant exam will be conducted normally within one month of the announcement of the final semester revaluation results.

6) Evaluation Methodology:

The performance of the students in each semesters shall be evaluated course wise for 100 marks. The breakup of marks between Continuous Internal Assessment (**CIA**) and the Semester End Examination (**SEE**), and the mode of assessments for various courses are given in Table 6.1.

Table 6.1 Evaluation Pattern

S. No.	Type of the Course	Marks	
		CIA	SEE
1	Theory	30	70
2	Practical	30	70
3	Mandatory Non Credit Courses	30	--
4	Internship/ Industrial Training/ Research Projects in National Laboratories/Academic Institutions	50	--
5	Socially Relevant Project	100	--
6	Project Work Stage I	50	--
7	Project Work Stage II	60	140

Theory Courses:

The performance of a student in each theory course shall be evaluated for maximum of 100 marks. The distribution shall be 30 marks for Continuous Internal Assessment and 70 marks for the Semester End Examination.

Continuous Internal Assessment (CIA): Continuous Internal Assessment (CIA) includes two components; Continuous Internal Evaluation (CIE) and Continuous Alternative Assessment (CAA).

  a. **Continuous Internal Evaluation (CIE):** For each theory course, during the semester, there shall be two CIEs. Each CIE will be evaluated for 30 marks and will be converted to 20 marks. The first CIE will be conducted for around 50% of the syllabus and the second CIE will be conducted for the remaining syllabus. Final or consolidated CIE marks will be arrived by considering the marks secured by the student in both the CIEs with 80% weightage given to the better CIE and 20% to the other.

The duration of CIE examination is 120 minutes.

- There shall be 4 questions and all are compulsory.
- Question 1 contains 3 short answer questions from each unit with equal weightage for a total of 6 marks. The student has to answer all of them.

- Questions 2-4 contains 3 either/ or type questions from each unit with equal weightage of 8 marks. The marks obtained by the student shall be out of 30 will be reduced to out of 20 marks. Any fraction shall be rounded off to next integer.
- If the student is absent for the CIE examination, no re-exam shall be conducted and marks for that examination shall be considered as zero.

b. **Continuous Alternative Assessment (CAA):** This CAA enables faculty to design own assessment patterns during the semester. The CAA enhances the autonomy (freedom and flexibility) of individual faculty and enables them to create innovative pedagogical practices. If properly applied, the CAA converts the classroom into an effective learning centre. The CAA may include assignments, seminars, term paper, open ended experiments, METE (Modeling and Experimental Tools in Engineering), five minutes video, MOOCs etc.

For each theory course, during the semester, there shall be two CAAs. Each CAA will be evaluated for 5 marks, the first CAA will be conducted before the first CIE and the second CAA will be conducted before second CIE. Final CAA marks will be arrived by adding the marks secured by the student in both the CAAs.

The final marks for CIA (for 30 marks) = Consolidated CIE marks (for 20 marks) + Consolidated CAA marks (for 10 marks)

Note: Faculty should obtain the prior approval from the BOS Chairman of the respective department regarding the mode of alternative assessment and the evaluation criterion.

Semester End Examinations: End examination of theory courses shall have the following pattern:

a. There shall be 6 questions and all questions are compulsory.
b. Question 1 shall contain 10 compulsory short answer questions for a total of 20 marks such that each question carries 2 marks. There shall be 2 short answer questions from each unit.
c. In each of the questions from 2 to 6, there shall be either/or type questions of 10 marks each.
d. Student shall answer any one of them.
e. The questions from 2 to 6 shall be set by covering one unit of the syllabus for each question.

End examination of theory courses consisting of two parts of different courses, for Example: Electrical & Mechanical Technology shall have the following pattern:

a. Question paper shall be in two parts viz., Part A and Part B with equal weightage.
b. In each part, there shall be 3 either-or type questions for 12, 12 and 11 marks.
c. The answers for Part A and Part B shall be written in two separate answer books.

Practical Courses:

The performance of a student in each practical course shall be evaluated for maximum of 100 marks. The distribution shall be 30 marks for Continuous Internal Assessment and 70 marks for the Semester End Examination.

Continuous Internal Assessment: CIA shall be evaluated for 30 marks of which with 10 marks for Day to day work, 10 marks for record and 10 marks for internal practical exam & viva-voce.

In a practical course consisting of two parts (Eg: Electrical & Mechanical Engg. Lab), CIA shall be evaluated for 30 marks in each part and final CIA marks shall be arrived by considering the **average of marks** obtained in two parts.

Semester End Examination: The Semester End Examination shall be conducted for 70 marks by the concerned laboratory teacher and a senior expert in the course from the same department/ from other institute nominated by the principal. In a practical course consisting of two parts (Eg: Electrical & Mechanical Engg. Lab), the semester end examination shall be conducted for 35 marks in each part.

Design/Drawing/Graphics/Estimation Courses:

Continuous Internal Assessment: For the course having design and/or drawing, such as Engineering Drawing, the distribution of marks shall be 30. Day-to-day work shall be evaluated for 15 marks by the concerned course teacher based on the reports/submissions prepared in the class. And there shall be two CIEs in a semester for duration of 120 minutes each for 30 marks and converted to 15 marks. The final CIE marks will be arrived by considering of 80% weightage given to the better CIE marks and 20% for the other. The CIE shall contain 3 either or type of questions of equal weightage of 10 marks. The sum of day-to-day evaluation and the CIE will be the final CIA marks for the course.

Semester End Examinations: The end examination pattern for Engineering Graphics/Drawing, shall consists of 5 questions, either/or type, of 14 marks each. However, the Semester End Examination pattern for other courses related to design/estimation shall be as per the instructions by Board of Studies.

Mandatory Non Credit Courses:

There shall be mandatory courses with zero credits and shall be evaluated for 30 marks by Continuous Internal Assessment. Process of evaluating these marks will be same as for theory courses. There shall be no SEE.

However, attendance in such course shall be considered while calculating aggregate attendance and student shall be declared to have passed the mandatory course only when he/she secures 40% or more marks in the consolidated CIE.

Internship/Industrial Training/Research Projects in National Laboratories/Academic Institutions:

It is introduced for 2 credits in the curriculum. The student shall complete the Internship/ Industrial Training/Research Project in National Laboratories/ Academic Institutions during summer vacation for a period of 4 weeks after IV Semester or after VI Semester.

In house Internships/ Industrial Training programs shall be considered, in case if student could not get opportunity in any industry.

The student shall submit a diary and a technical report for evaluation. This shall be evaluated in the VII semester for 100 marks by a committee consisting of Head of the Department along with two senior faculty members of the Department.

A student shall acquire 2 credits assigned, when he/she secures 40% or more for the total of 100 marks. In case, a student fails to secure the minimum required marks, such student has to reappear before the committee formed by the Head of the Department for revaluation. There shall be no external evaluation.

Socially Relevant Project:

It is introduced for 2 credits in the curriculum. Student shall complete this project during III, IV, V & VI semesters. The student has to spend 15 Hours/semester on any socially relevant project and submit two reports, one at the end of IV and other at the end of VI semester for evaluation. Each report shall be evaluated for 100 marks by a committee consisting of Head of the Department, Project mentor and one senior faculty member of the department. A student shall acquire 1 credit assigned, when he/she secures 40% or more marks for the total of 100 marks. In case, a student fails to secure the minimum required marks, such student has to reappear before the committee formed by the Head of the Department for revaluation. There shall be no external evaluation.

Project Work Stage I:

There shall be a presentation of Abstract of the main project in the VII Semester. After selecting the specific topic, the student shall collect the information and prepare a report, showing his/her understanding of the topic and submit the same to the department before presentation. The report and the presentation shall be evaluated by the departmental committee consisting of Head of the Department, Project supervisor and a senior faculty member. It shall be evaluated for 50 marks. A student shall acquire 2 credits assigned to the Project stage-I, when he/she secures 40% or more marks for the total of 50 marks. The Project stage-I shall be evaluated at the end of VII semester by the department committee.

In case, a student fails to secure the minimum required marks, such student has to reappear before the committee formed by the Head of the Department for revaluation, failing which the student is not permitted to register for Project Work Stage-II. There shall be no external evaluation.

Project Work Stage II:

Out of a total of 200 marks for the Project stage - II, 60 marks shall be for Continuous Internal Assessment and 140 marks for the Semester End Examination (Viva-voce). The Viva-Voce shall be conducted by a committee consisting of HOD, Project Supervisor and an External Examiner nominated by the Principal. Project work shall start in VII semester and shall continue in the VIII semester. The evaluation of project work shall be conducted at the end of the VIII semester. The CIA shall be made by the departmental committee (Head of the Department, two senior faculty members of the department and Supervisor), based on two seminars given by each student on the topic of his/her project.

A student shall acquire 7 credits assigned to the Project stage-II, when he/she secures 40% or more marks both in Continuous Internal Assessment and Semester End Examination. In case, a student fails to secure the minimum required marks, such student has to reappear before the committee formed by the Head of the Department for revaluation.

Massive Open Online Course (MOOC):

There shall be a Discipline Centric Elective Course through Massive Open Online Course (MOOC). The student shall register for the course offered by authorized Institutions/Agencies, through online with the approval of Head of the Department.

A student shall be permitted to pursue up to a maximum of Two (2) Elective courses under MOOCs during the Programme. Each of the courses must be of minimum 12 weeks in duration (3 Credit Course each). Attendance will not be monitored for MOOCs. Student has to pursue and acquire a certificate for a MOOC only from the organizations/agencies approved by the BOS in order to earn the 3 credits. The Head of the Department shall notify the list of such courses at the beginning of the semester.

Student shall be permitted to pursue two MOOCs courses in place of two electives in eighth semester.

7) **Eligibility for Promotion:**

   Attendance Requirements in Academics:
   a. A student shall be eligible to appear for semester end examinations if he/she acquires a minimum of 75% of attendance in aggregate of all the courses in a semester.
   b. Condonation of shortage of attendance in aggregate up to 10% (65% and above

and below 75%) in each semester may be granted by the College Academic Committee.

c. Shortage of Attendance below 65% in aggregate shall in NO CASE be condoned.

d. A stipulated fee shall be payable towards condonation of shortage of attendance to the Institute.

e. Students whose shortage of attendance is not condoned in any semester are not eligible to take their semester end examination of that class and their registration shall stand cancelled.

f. A student will not be promoted to the next semester unless he satisfies the attendance requirements of the present semester. They may seek readmission for that semester when offered next.

Minimum Academic Requirements for Promotion and Award of degree:

The following academic requirements have to be satisfied in addition to the attendance requirements mentioned in section 7.1.

Regular – Fulltime:

a. A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to each theory, practical, design, drawing course or project if he secures not less than 35% of marks in the semester end examination and a minimum of 40% of marks in the sum total of the CIA and semester end examination marks taken together. In case of mandatory courses he/she should secure 40% of the total marks.

b. A student shall be promoted from IV to V Semester only if he/she fulfils the academic requirement of securing 40% of the credits (i.e., 24 credits) in the courses that have been studied up to III semester from the following examinations, irrespective of whether the candidate takes the semester end examination or not as per the normal course of study.

    i. One regular and two supplementary examinations of I Semester.
    ii. One regular and one supplementary examination of II Semester.
    iii. One regular examination of III semester.

c. A student shall be promoted from VI semester to VII semester only if he/she fulfils the academic requirements of securing 40% of the credits (i.e., 41 credits) in the courses that have been studied up to V semester from the following examinations, irrespective of whether the candidate takes the semester end examination or not as per the normal course of study.

    i. One regular and four supplementary examinations of I Semester.
    ii. One regular and three supplementary examinations of II Semester.
    iii. One regular and two supplementary examinations of III Semester.
    iv. One regular and one supplementary examinations of IV Semester.
    v. One regular examination of V Semester.

And in case a student is detained for want of credits for particular academic year by sections 7.2.1.b and 7.2.1.c above, the student may make up the credits through supplementary examinations and only after securing the required credits he/she shall be permitted to join in the V semester or VII semester as the case may be.

d. A student shall register and put up minimum attendance in all 160 credits and earn all the 160 credits.

e. Students who fail to earn 160 credits as indicated in the course structure within eight academic years from the year of their admission shall forfeit their seat in B. Tech. Course and their admission shall stand cancelled.

Lateral Entry Scheme:

a. A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to each theory, practical, design, drawing course or project if he secures not less than 35% of marks in the semester end examination and a minimum of 40% of marks in the sum total of the CIA and semester end examination marks taken together. In case of mandatory courses he/she should secure 40% of the total marks.

b. A student shall be promoted from VI semester to VII semester only if the student fulfils the academic requirements of securing 40% of credits (i.e., 25 credits) from the following examinations, irrespective of whether the candidate takes the end examination or not as per the normal course of study.
   i. One regular and two supplementary examinations of III semester.
   ii. One regular and one supplementary examinations of IV semester.
   iii. One regular examination of V semester.

c. And in case if student is already detained for want of credits for particular academic year, the student may make up the credits through supplementary exams of the above exams before the commencement of IV year I semester class work of next year.

d. A student shall register and put up minimum attendance in all 120 credits and earn all the 120 credits.

e. Students who fail to earn 120 credits as indicated in the course structure within 6 academic years from the year of their admission shall forfeit their seat in B. Tech. Course and their admission shall stand cancelled.

8) **Gap Year:**

Gap year concept for Student Entrepreneur in Residence is introduced and outstanding

students who wish to pursue entrepreneurship are allowed to take a break of one year at any time after II year to pursue full-time entrepreneurship. This period may be extended to two years at the most and these two years would not be counted for the time for the maximum time for graduation. The Head of the respective department shall forward such proposals submitted by the students to the Principal. An evaluation committee constituted by the Principal shall evaluate the proposal submitted by the student and the committee shall decide whether to permit the student(s) to avail the Gap Year or not.

9) **Maximum Period for Completion of Program:**

The normal duration of B. Tech program shall be four academic years (Three academic years in case of Lateral Entry Scheme). The maximum period which a student can take to complete a B. Tech program shall be double the normal duration of the program, i.e., eight years (excluding period of Gap Year) for regular and six years (excluding period of Gap Year) for lateral entry students reckoned from the commencement of the semester to which the student was first admitted to the program.

A student is required to complete the B. Tech Program of study satisfying the attendance and academic/credit requirements in all the eight semesters of the course within a period of eight (six in case of lateral entry) academic years (excluding period of Gap Year) from the year of admission, failing which he/she shall be declared ineligible to pursue B. Tech degree course. Completing the program of study shall mean not only satisfying the attendance and academic/credit requirements but also passing of all the courses and earning the credits prescribed in the curriculum within the respective stipulated period.

10) **Minor Degree Program:**

This concept is introduced in the curriculum of all conventional B. Tech. programs offering a major degree. The main objective of Minor degree in a discipline is to provide additional learning opportunities for academically motivated students and it is an optional feature of the B. Tech. program.
In order to earn a Minor degree in a discipline a student has to earn 20 extra credits. Out of which, 18 credits can be obtained by pursuing 6 theory courses (each of 3 credits) either through MOOCs (maximum of three only) or as a regular course as listed by the BOS time to time. Remaining 2 credits can be obtained by carrying out a mini project in the concerned branch of Engineering offering minors course.

The Evaluation pattern of theory courses will be similar to the regular program evaluation. The mini project shall be evaluated by the committee consisting of Head of the department, Supervisor and External examiner. Students aspiring for Minors degree must register in V semester only. Student may register for mini project from V semester onwards and complete the same before VIII semester.

Attendance will not be monitored for MOOC courses. Student has to acquire a certificate from the agencies approved by the BOS with grading or marks or pass/fail in order to earn

credits. If the certificate of MOOC course has only pass/fail without any grades, the grade to be assigned as decided by the academic council.

a. Students having a CGPA of 8.0 (for SC/ST students CGPA of 7.5) or above up to II year-I semester and without any backlog courses will be permitted to register for Minor degree program. An SGPA and CGPA of 7.5 (for SC/ST students CGPA of 7.0) has to be maintained in the subsequent semesters without any backlog courses in order to keep the Minor degree registration live or else it will be cancelled.

b. Students aspiring for a Minor degree must register during **V** semester only and must opt for a Minor degree in a discipline other than the discipline he/she is registered in.

c. Students may enlist their choice of Minor degree program, in order of preference, for which they wish to register. It will not be permissible to alter the choices after the application has been submitted. However, students are allowed to opt for only one Minor degree program in the order of preference given by them.

d. Completion of a Minor degree program requires no addition of time to the regular four year Bachelors' program. That is, Minor degree program should be completed by the end of final year B. Tech. program along with the major discipline.

e. Reservations shall be followed as per the rules of Government of Andhra Pradesh i.e., State-wide Universities Presidential Order 371 Article D in consonance to Section 95 of the A.P. Reorganization Act, 2014 for admissions to Minor degree program.

f. A student registered for Minor degree in a discipline shall pass in all courses that constitute the requirement for the Minor degree program. No class/division (i.e., second class, first class and distinction, etc.) shall be awarded for Minor degree program.

g. A Committee consists of HOD, Two Senior Members of the Department and Controller of Examination, shall evaluate/verify the Certificates of Completion of all MOOC Courses done by the candidate at the end of VIII Semester and recommend the list of eligible candidates for the Award of Minor Degree to the Principal.

h. The Minor degree in a discipline will be mentioned in the degree certificate as Bachelor of Technology in XXX with Minor in YYY. For example, Bachelor of Technology in **Computer Science & Engineering** with Minor in **Electronics & Communication Engineering**. This fact will also be reflected in the transcripts, along with the list of courses taken for Minor degree program with CGPA mentioned separately.

11) Honors Degree Program:

a. This concept is introduced in the curriculum for all conventional B. Tech. programs. The main objective of Honors degree in a discipline is to provide additional learning opportunities for academically motivated students and it is an optional feature of the B. Tech. program. In order to earn a Honors degree in his/her discipline, a student has to earn 20 extra credits. Out of which, 15 credits can be obtained by pursuing 5 theory courses (each of 3 credits) either through MOOCs (maximum of three only) (as listed by the BOS time to time) or permitted to choose from professional elective courses those he/she has not studied in any form during the Programme. Remaining 5 credits can be obtained by carrying out a mini project in the concerned branch of Engineering.

The Evaluation pattern of theory courses will be similar to the regular program

evaluation. The mini project shall be evaluated by the committee consisting of Head of the department, Supervisor and External examiner. Students aspiring for Honors degree must register in **V** semester only. Student may register for mini project from V semester onwards and complete the same before VIII semester after completing at least two advanced courses or equivalent.

b. Procedure for Conduct and Evaluation of Honors degree Mini project:
Out of a total of 100 marks for the **Mini project**, 30 marks shall be for CIA and 70 marks for the SEE (Viva-Voce). The Viva-Voce shall be conducted by a committee consisting of HOD, Project Supervisor and an External Examiner nominated by the Principal. The evaluation of project work shall be conducted at the end of the VIII semester. The CIA shall be made by the departmental committee (Head of the Department and one senior faculty member of the Department and Supervisor).

c. Students having a CGPA of 8.0 (for SC/ST students CGPA of 7.5) or above up to II year-I semester and without any backlog courses will be permitted to register for degree with Honors. An SGPA and CGPA of 7.5 (for SC/ST students CGPA of 7.0) has to be maintained in the subsequent semesters without any backlog courses in order to keep the degree with Honors registration live or else it will be cancelled.

12) Award of Grades:

After each course is evaluated, the marks obtained in each course will be converted to a corresponding letter grade as given in below Table 12.1, depending on the range in which the marks obtained by the student fall.

Table 12.1 Structure of Grading of Academic Performance

Range in which the % of marks in the course fall	Grade	Grade points Assigned
≥ 90	S (Outstanding)	10
80-89	A (Excellent)	9
70-79	B (Very Good)	8
60-69	C (Good)	7
50-59	D (Average)	6
40-49	E (Below Average)	5
< 40	F (Fail)	0
Absent	Ab (Absent)	0

a. A student obtaining Grade 'F' or Grade 'Ab' in a course shall be considered failed and will be required to reappear for that course when it is offered the next supplementary examination.

b. For mandatory courses, "Satisfactory" or "Unsatisfactory" shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA.

Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

a. The Semester Grade Point Average (SGPA) is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.,

$$SGPA = \Sigma\,(C_i \times G_i)/\Sigma\,C_i$$

Where, C_i is the number of credits of the ith subject and G_i is the grade point scored by the student in the ith course.

b. The Cumulative Grade Point Average (CGPA) will be computed in the same manner taking into account all the courses undergone by a student over all the semesters of a program, i.e.,

$$CGPA = \Sigma\,(C_i \times S_i)/\,\Sigma\,C_i$$

Where "S_i" is the SGPA of the ith semester and C_i is the total number of credits upto that semester.

c. Both SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

d. While computing the SGPA the subjects in which the student is awarded Zero grade points will also be included.

e. As per AICTE regulations, conversion of CGPA into equivalent percentage as follows:

Equivalent Percentage = (CGPA – 0.50) x 10

Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale.

Letter Grade: It is an index of the performance of students in a said course. Grades are denoted by letters S, A, B, C, D, E and F.

13) Award of Class:

After a student has satisfied the requirements prescribed for the completion of the program and is eligible for the award of B. Tech. degree he/she shall be placed in one of the following four classes as presented in the table 13.1.

Table 13.1 Award of Class

Class Awarded	CGPA Secured
First Class with Distinction	≥ 7.5
First Class	$\geq 6.5 < 7.5$
Second Class	$\geq 5.5 < 6.5$
Pass Class	$\geq 4 < 5.5$

14) Transitory Regulations:

Discontinued, detained, or failed candidates are eligible for readmission as and when the semester is offered after fulfilment of academic regulations. Candidates who have been detained for want of attendance or not fulfilled academic requirements or who have failed after having undergone the course in earlier regulations or have discontinued and wish to continue the course are eligible for admission into the unfinished semester from the date of commencement of class work with the same or equivalent courses as and when courses are offered, subject to section 7.2.e and they will follow the academic regulations into which they are readmitted.

Candidates who are permitted to avail Gap Year shall be eligible for re-joining into the succeeding year of their B. Tech from the date of commencement of class work, course to Section 7.2.e and they will follow the academic regulations into which they are re-admitted.

15) General Instructions:

The academic regulations should be read as a whole for purpose of any interpretation.

- Malpractices rules-nature and punishments are appended.

- Where the words "he", "him", "his", occur in the regulations, they also include "she", "her", "hers", respectively.

- In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Principal is final.

- The college may change or amend the academic regulations or syllabi at any time and the changes or amendments shall be made applicable to all the students on rolls with effect from the dates notified by the college.

MALPRACTICE RULES
DISCIPLINARY ACTION FOR/ IMPROPER CONDUCT IN EXAMINATIONS

S. No.	Nature of Malpractices/Improper conduct	Punishment
	If the candidate	
1.(a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, Cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which he is appearing but has not made use of (material shall include any marks on the body of the candidate which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other candidate orally or by any other body language methods or communicates through cell phones with any candidate or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the candidates involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the candidate is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that Semester/year. The Hall Ticket of the candidate is to be cancelled and sent to the Controller of Examinations.
3.	Impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The

		performance of the original candidate, who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all semester end examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the Answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all semester end examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Controller of Examinations /Additional Controller of	In case of students of the college, they shall be expelled from examination halls and cancellation of

	Examinations/any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the COE or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the COE or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the Institute premises or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears off the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all semester end examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance

		in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award suitable punishment.	