

ACADEMIC RULES AND REGULATIONS

SRIT R19

M. Tech (Regular- Fulltime)
(Effective for the students admitted into I Year from
the Academic year **2019- 2020**)



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 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 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 behavioural.

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 Academic Regulations – R20" 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.

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 M. Tech. course from 2019-2020 are given in Table 1.

Table 1: Programs Offered

S. No.	Name of the Program	Program Code
1	Computer Science - CS	D05
2	Electrical Power Systems - EPS	D07
3	VLSI Design - VLSI	D57

2. Eligibility for Admissions:

Admission to the above programs shall be made subject to the eligibility, qualifications and specializations prescribed by the Jawaharlal Nehru Technological University Anantapur, Ananthapuramu / Govt. of Andhra Pradesh, as per AICTE guidelines for each program, from time to time.

Admissions shall be made either on the basis of merit rank obtained by the qualified candidates at an Entrance Test conducted by the University or on the basis of GATE/PGECET score, subject to reservations prescribed by the University or Government policies from time to time.

3. COURSE WORK:

3.1 A Candidate after securing admission must pursue the M.Tech. course of study for Four semesters duration.

3.2 Each semester shall be of 20 weeks duration including all examinations.

3.3 A candidate admitted to a program should complete it within a period equal to twice the prescribed duration of the program from the date of admission.

3.4 The medium of instruction shall be English for all theory and practical courses, examinations, Seminar, Teaching Assignments, Comprehensive Viva-Voce and Project thesis/dissertation reports.

4. ATTENDANCE:

4.1 A candidate shall be deemed to have eligibility to write end semester examinations if he/she has put in atleast 75% of attendance on cumulative basis of all subjects/courses in the semester.

4.2 Condonation of shortage of attendance up to 10% i.e., from 65% and above and less than 75% may be given on the recommendation of the Principal.

4.3 Condonation of shortage of attendance shall be granted only on genuine and valid reasons on representation by the candidate with supporting evidence.

4.4 If the candidate does not satisfy the attendance requirement, he/she is detained for want of attendance and shall reregister for that semester. He/she shall not be promoted to the next semester.

5. EVALUATION:

The performance of the candidate in each semester program shall be evaluated subject wise, with a maximum of 100 marks for theory and 100 marks for practical examination, on the basis of Continuous Internal Assessment and Semester End Examination.

5.1. There shall be five units in each of the theory subjects. For the theory subjects

60% of the marks will be for the Semester End Examination and 40% of the marks will be for Continuous Internal Assessment.

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

5.2.1 Two Continuous Internal Evaluation Examinations shall be held during the semester for 30 marks. First Continuous Internal Evaluation Examination shall be conducted for half of the syllabus and second Continuous Internal Evaluation Examination shall be conducted for remaining half of the syllabus. In each Continuous Internal Evaluation Examination, a student shall answer all three questions in 2 hours of time without seeking any choice. Final Continuous Internal Evaluation marks for a total of 30 marks shall be arrived at by considering the marks secured by the student in both the Continuous Internal Evaluation Examinations with 70% weightage to the better internal exam and 30% to the other.

5.2.2 For each theory course, during the semester, there shall be two CAAs. Each CAA will be evaluated for 10 marks. The first CAA will be conducted for around 50% of the syllabus and the second CAA will be conducted for the remaining syllabus. Final or consolidated CAA marks will be arrived by considering the average of marks secured by the student in both the CAAs.

Respective course coordinator has to evaluate CAAs through Assignment or any other such evaluation methods depending on the nature of the course. The course coordinator will announce the mode of the CAA to the respective class at the beginning of the course. It is responsibility of the course coordinator and Head of the department to maintain the complete record of CAAs and its evaluation.

The final marks for CIA (for 40 marks) = Consolidated CIE marks (for 30 marks) + Consolidated CAA marks (for 10 marks)

The final CIA marks shall be rounded off to next integer in case of any fraction.

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.

5.3. The following pattern shall be followed in the Semester End Examination.

Five questions shall be set from each of the five units with either/or type for 12 marks each.

All the questions have to be answered compulsorily.

Each question may consist of one, two or more bits.

5.4. For practical subjects, 60 marks shall be for the End Semester Examinations and 40 marks will be for internal evaluation based on the day to day performance.

For Comprehensive Viva-Voce and Seminar there will be an internal evaluation of 100 marks in each. A candidate has to secure a minimum of 50% (in each) to be declared successful. The assessment will be made by a board consisting of HOD and two senior internal experts at the end of III semester instruction.

5.5 For Teaching Assignments there will be an internal evaluation of 100 marks. A candidate has to secure a minimum of 50% to be declared successful. Student has to teach 10 Hours in his/her interesting subject/subjects in the entire III Semester instruction period for his juniors at PG level or Under Graduate students who are available on the campus. For each teaching hour maximum of 10 marks are allotted. The assessment will be made by the faculty allotted by the HOD.

5.6. Mandatory MOOCs course is introduced in III Semester as an elective without any credits. A student can choose any subject of his/her choice that has more than 30 hours duration from any MOOCs provider and should obtain satisfactory certificate. An Open Elective is introduced in III semester.

5.7. A candidate shall be deemed to have secured the minimum academic requirement in a subject if he secures a minimum of 40% of marks in the End Examination and a minimum aggregate of 50% of the total marks in the End Semester Examination and Internal Evaluation taken together.

5.8 In case the candidate does not secure the minimum academic requirement in any of the subjects (as specified in 5.7.) he/she has to reappear for the Semester Examination either supplementary or regular in that subject, or repeat the course when next offered or do any other specified subject as may be required.

6. RE-REGISTRATION FOR IMPROVEMENT OF CONTINUOUS INTERNAL EVALUATION MARKS:

The following are the conditions to avail the benefit of improvement of Continuous Internal Evaluation marks.

6.1 The candidate should have completed the course work and obtained examinations results for I, II and III semesters.

6.2 He should have passed all the subjects for which the Continuous Internal Evaluation marks secured are more than 50%.

6.3 Out of the subjects the candidate has failed in the examination due to Continuous Internal Evaluation marks secured being less than 50%, the candidate shall be given one chance for each Theory subject and for a maximum of three Theory subjects for Improvement of Continuous Internal Evaluation marks.

6.4 The candidate has to re-register for the chosen subjects and fulfill the academic requirements.

6.5 For each subject, the candidate has to pay a fee equivalent to one third of the semester tuition fee and the amount is to be remitted by using an online examination portal link along with the requisition through the Principal of the college.

6.6 In the event of availing the Improvement of Continuous Internal Evaluation marks, the Continuous Internal Evaluation marks as well as the End Examinations marks secured in the previous attempt(s) for the reregistered subjects stand cancelled.

7. EVALUATION OF PROJECT WORK:

Every candidate shall be required to submit thesis or dissertation after taking up a topic approved by the department.

7.1 Registration of Project work: A candidate is permitted to register for the project work after satisfying the attendance requirement of all the courses (theory and practical courses of I & II Semester)

7.2 An Internal Departmental Committee (I.D.C) consisting of HOD, Supervisor and one internal senior expert shall monitor the progress of the project work.

7.3 The first phase of the project work on the project shall be initiated in the third semester and second phase of the project work will be continued in the final semester i.e., fourth semester. The duration of the project work is for two semesters. The candidate can submit Project thesis with the approval of I.D.C. after 36 weeks from the date of registration at the earliest and one calendar year from the date of registration for the project work. Extension of time within the total permissible limit for completing the programme is to be obtained from the Principal.

7.4 The student must submit status report by giving seminars in three different phases (one in III semester and another two in IV semester) during the project work period. These seminar reports must be approved by the I.D.C before submission of the Project Report.

7.5 A candidate shall be allowed to submit the thesis/dissertation only after obtaining plagiarism report with less than 30% and passing in all the prescribed subjects (both theory and practical), and then take viva-voce examination of the project. The viva-

voce examination may be conducted once in two months for all the candidates submitted during that period.

7.6 Three copies of the Thesis/Dissertation certified in the prescribed format by the supervisor & HOD shall be presented to the HOD. One copy is to be forwarded to the COE and one copy to be sent to the examiner.

7.7 The Department shall submit a panel of three experts for a maximum of five students at a time. However, the thesis/dissertation will be adjudicated by one examiner nominated by the COE.

7.8 If the report of the examiner is favorable viva-voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the examiner who adjudicated the thesis/dissertation. The board shall jointly report candidates work as:

Satisfactory Grade A

Not satisfactory Grade B

If the report of the viva-voce is not satisfactory (Grade B) the candidate will retake the viva-voce examination after three months. If he fails to get a satisfactory report at the second viva-voce examination, he will not be eligible for the award of the degree unless the candidate is permitted to revise and resubmit the thesis.

8. 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 1, depending on the range in which the marks obtained by the student fall.

Table 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 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.
- 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.

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

- 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.,

$$\text{SGPA} = \frac{\sum (C_i \times G_i)}{\sum C_i}$$

Where, C_i is the number of credits of the i^{th} subject and G_i is the grade point scored by the student in the i^{th} 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.,

$$\text{CGPA} = \frac{\sum (C_i \times S_i)}{\sum C_i}$$

Where " S_i " is the SGPA of the i^{th} semester and C_i is the total number of credits up to 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. **Grade Point:** It is a numerical weight allotted to each letter grade on a 10-point scale.
- f. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters A+, A, B, C, D, E and F.
- g. As per AICTE regulations, conversion of CGPA into equivalent percentage as follows:

$$\text{Equivalent Percentage} = (\text{CGPA} - 0.50) \times 10$$

9. Award of Degree:

9.1 A candidate shall be eligible for the award of respective degree if he/she fulfils the following academic regulations.

Pursues a course of study for not less than two academic years and in not more than four academic years.

Registers for 78 credits and secures all 78 credits.

9.2 A candidate shall be eligible for the award of class if he/she satisfies the minimum academic requirements in every subject and secures 'satisfactory' grade report on his/her project thesis viva-voce. Based on overall percentage of marks obtained, the following class is awarded.

Table 2: Award of Class

Class Awarded	CGPA Secured
First Class with Distinction	≥ 8
First Class	$\geq 7 < 8$
Second Class	$\geq 5 < 7$
Pass Class	$\geq 4.0 < 5$

10. WITH – HOLDING OF RESULTS:

If the candidate has not paid dues to the college or if any case of in-discipline is pending against him, the result of the candidate shall be withheld and he will not be allowed/promoted into the next higher semester. The issue of degree is liable to be withheld in such cases.

11. TRANSITORY REGULATIONS:

Candidates who have discontinued or have been detained for want of attendance or who have failed after having undergone the course in earlier regulations 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 subjects as and when subjects are offered, subject to 5.8 and 3.3 sections. Whereas they continue to be in the academic regulations they were first admitted.

12. General Instructions:

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

- a. Malpractices rules-nature and punishments are appended.
- b. Where the words "he", "him", "his", occur in the regulations, they also include "she", "her", "hers", respectively.
- c. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Principal is final.

13. Punishments for Malpractice cases - Guidelines

The examinations committee may take the following guidelines into consideration while dealing with the suspected cases of malpractice reported by the invigilators/squad members etc; during end examinations. The punishment may be more severe or less severe depending on the merits of the individual cases present Table 8.

Table 3: Award of Class

S. No.	Nature of Malpractices/Improper conduct	Punishment
	<i>If the candidate</i>	
1.	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	Expulsion from the examination hall and cancellation of the performance in that subject only.

	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)	
2.	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.
3.	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.
4.	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.
5.	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.
6.	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.
7.	Refuses to obey the orders of the Controller of Examinations/Additional Controller 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 or causes 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.	In case of students of the college, they shall be expelled from examination halls and cancellation of 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.
8.	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.
9.	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.
10.	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 college 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.
11.	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.
12.	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.
13.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the college academic council for further action to award suitable punishment.	
14.	Malpractice cases identified during sessional examinations will be reported to the internal examination committee to award suitable punishment.	