



## **SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE**

### **(AUTONOMOUS)**

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada)

**Accredited by NAAC with 'A+' Grade.**

Recognized as Scientific and Industrial Research Organization

**SRKRMARG, CHINNAMIRAM, BHIMAVARAM-534204 W.G.Dt., A.P., INDIA**

### **ACADEMIC REGULATIONS (R25)**

(Applicable for the batches admitted from 2025-26)

#### **ACADEMIC REGULATIONS-(R25) FOR M.Tech (REGULAR) DEGREE COURSE**

Applicable for the students of M.Tech(Regular) program from the Academic Year 2025-26 onwards. The M.Tech Degree of SRKR Engineering College(A) affiliated to Jawaharlal Nehru Technological University Kakinada shall be conferred on candidates who are admitted to the program and who fulfill all the requirements for the award of the Degree.

#### **1.0 ELIGIBILITY FOR ADMISSIONS**

Admission to the above program shall be made subject to eligibility, qualification and specialization as prescribed by the University from time to time.

Admissions shall be made on the basis of merit/rank obtained by the candidates (i) in national level qualifying Entrance Test (GATE), (ii) AP PGECET conducted by State Government and (iii) Few Sponsored seats notified by University on the basis of any order of merit as approved by the State Government /University, subject to reservations as laid down by the Government from time to time.

#### **2.0 AWARD OF M. Tech DEGREE**

2.1 A student shall be declared eligible for the award of the M. Tech Degree, if he pursues a course of study in not less than two and not more than four academic years. Under any circumstances, permission shall not be given to complete the course work beyond four years.

2.2 **The student shall register for all 80 credits and secure all the 80 credits.**

2.3 The minimum instruction period in each semester is **16** weeks.

#### **3.0 PROGRAMME OF STUDY**

The following specializations are offered at present for the M. Tech Programme of study and any other course as approved by AICTE/ University/Institution from time to time.

S.NO	DEPARTMENT	SPECIALIZATION
1	Civil Engineering	Structural Engineering
2	Computer Science & Engineering	Computer Science & Technology
3	Electronics & Communication Engineering	Communication Systems

4	Electrical & Electronics Engineering	Power Systems & Automation
5	Information Technology	Information Technology
6	Mechanical Engineering	CAD/CAM

#### **4.0 ATTENDANCE**

4.1 Attendance is calculated separately for each course. Attendance in all classes (Lectures/Laboratories) is compulsory. The minimum required attendance in each course is 75%. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his/her attendance is less than 75%.

4.2 Condoning of shortage of attendance (between 65% and 75%) up to a maximum of 10% (*considering the days of attendance in sports, games, NSS activities and medical exigencies*) in each course (Theory/Lab/Seminar) is condoned on production of valid Certificates/documents in the stipulated time mentioned here with:

4.2.1 Students who are admitted as in patients for treatment are only eligible to claim condonation of attendance. Such students under medical exigencies need to Produce (a) Doctor Medical Prescription, (ii) Medical bills duly signed by Doctor/Hospital authorities, (c) Diagnosis reports, if any, (d) Discharge summary issued at the time of discharge and any other supporting documents within two week(s) from the date of discharge to the respective institution.

4.2.2 Students participation in Sports/Games and NSS activities shall also be permitted for con donation of attendance. In such cases, they need to produce (a) invitation letter from the organizing institute/agency, (ii) participation certificate and any supporting documents within two week(s) from the date of participation to the respective institution

4.3 A prescribed fee per course shall be payable for condoning shortage of attendance after getting the **approval of College Academic Committee** for the same. The College Academic Committee shall maintain all the relevant documents along with the request from the students, whose attendance is condoned.

**4.4 Shortage of Attendance below 65% in any course shall in no case be condoned.**

4.5 A Student, whose shortage of attendance is not condoned in any course(s) (Theory/Lab/Seminar) in any Semester, is considered as '**Detained in that course(s)**', and is not eligible to write Semester End Examination(s) of such Course(s), (in case of Seminar, his/her Seminar Report or Presentation are not

eligible for evaluation) in that Semester; and he/she has to seek re-registration for those course(s) in subsequent Semesters, and attend the same as and when offered.

- 4.6 A student shall put in a minimum required attendance in at **least FOUR courses** in I semester for **promotion to II Semester**; and at least FOUR courses in II semester for **promotion to III Semester**.

#### **Re-admission / Re-registration**

- 4.7 A student shall not be permitted to appear for the Semester End Examinations (SEE) in a course unless they meet the prescribed attendance requirements for that course. Students who fall short of attendance may take readmission for the course in the subsequent semester when it is offered, by paying the prescribed fee at least 30 days before the commencement of class work. The college, under the approval of the Principal, shall prepare and submit the list of students eligible/applied for readmission before the commencement of class work.
- 4.8 Students who fail due to **less internal marks (less than 50%)** may register for the course within the maximum permissible duration of the Program.
- 4.9 In such a case, the candidate must re-register for the course(s) and secure the required minimum attendance. The candidate's attendance in the re-registered course(s) shall be calculated separately to decide upon eligibility for writing the end examination in those course(s).
- 4.10 In a semester, students are permitted to **re-register maximum of THREE courses**.
- 4.11 Upon re-registration, the student's previous performance in the respective course(s) will be nullified. Re-registration must be completed by paying the prescribed fee at least 30 days prior to the commencement of class work. The college, under the approval of the Principal, shall submit the list of eligible and interested students before the commencement of class work.

#### **5.0 EVALUATION**

The performance of the candidate in each semester shall be evaluated **course-wise**, with a maximum of 100 marks for theory and 100 marks for practical, on the basis of Internal Evaluation and End Semester Examination.

- 5.1 **For the theory courses** 60 marks shall be awarded based on the performance in the End Semester Examination and 40 marks shall be awarded based on the Internal Evaluation. The continuous/ internal evaluation shall be made based on the average of the marks secured in the two CIE/Mid Term-Examinations conducted-one in the middle of the Semester and the other immediately after the completion of instruction. Each CIE/midterm examination shall be conducted for a total duration of

120 minutes with 4 questions (without choice) each question for 10 marks. End semester examination is conducted for 60 marks for all FIVE (5) questions (one question from one unit) to be answered (either or).

- 5.2 **For practical courses**, 60 marks shall be awarded based on the performance in the End Semester Examinations and 40 marks shall be awarded based on the day-to-day performance as Internal Marks. The internal evaluation based on the day to day work-10 marks, record- 10 marks and the remaining 20 marks to be awarded by conducting an internal laboratory test. The end examination shall be conducted by the examiners, with breakup marks of **Procedure-15, Experimentation- 25, Results- 10, Viva-voce-10.**
- 5.3 **For Seminar**, a student under the supervision of a faculty member, shall collect the literature on a topic and critically review the literature and submit it to the department in a report form and shall make an oral presentation before the **Project Review Committee** consisting of Head of the Department, supervisor & P.G.Coordinator of the department and two other senior faculty members of the department. **For Seminar, there will be only internal evaluation of 100 marks.** A candidate has to secure a minimum of **50% of marks** to be declared successful.
- 5.4 A candidate shall be deemed to have secured the minimum academic requirement in a course if he secures a minimum of **40% of marks in the End semester Examination** and a minimum aggregate of **50% of the total marks in the End Semester Examination and Internal Evaluation taken together.**
- 5.5 **Laboratory examination for M. Tech. courses** must be conducted with **two Examiners**, one of them being the Laboratory Class Teacher or teacher of the respective college and the second examiner shall be **appointed by the Controller of Examinations.**
- 5.6 Students shall undergo **mandatory summer internship / industrial training (3 credits)** for a minimum of **eight weeks duration** at the end of second semester of the Programme/Summer Break. A student will be required to submit a summer internship/industrial training report to the concerned department and appear for an oral presentation before the committee. The Committee comprises of a HoD / Professor of the department and two faculty. The report and the oral presentation shall carry 40% and 60% weightages respectively. **For summer internship /industrial training, there will be only internal evaluation of 100 marks.** A candidate has to secure a **minimum of 50%** of marks to be declared successful.

- 5.7 **For comprehensive viva-voce is** to assess the overall knowledge of the student in the relevant field of Engineering/Specialization in the PG program. Viva will be conducted in 3<sup>rd</sup> semester. The examination committee will be constituted by the HoD and consist of Professor of the department and two faculty. For comprehensive viva-voce, there will be only **internal evaluation of 100 marks**. A candidate has to secure a **minimum of 50%** of marks to be declared successful.

## **6.0 EVALUATION OF SEMINAR/ INTERNSHIP/ DISSERTATIONWORK**

All the students admitted under these regulations have to mandatorily comply the requirements of (i) Seminar-I, (ii) Seminar-II, (iii) Comprehensive Viva, (iv) Dissertation Part-A and (v) Dissertation Part-B. Out of these, (i) to (iv) are evaluated by internally by Project Review Committee (PRC) and (v) External Evaluation.

- 6.1 A Project Review Committee (PRC) shall be constituted with Head of the Department, PG Coordinator and one senior faculty member.

- 6.2 Students are required to appear for Seminar-I and Seminar-II in First and Second semester respectively. They shall present before PRC on the topic of their choice/interest preferably on the courses listed in respective semesters. PRC shall advise the students in advance to select topics which strengthen their **Dissertation Part-A and Dissertation Part-B**.

- 6.3 Students shall undergo mandatory **summer internship / industrial training (3 credits)** for a minimum of eight weeks duration at the end of second semester of the Programme/Summer Break. A student will be required to submit a summer internship/industrial training report to the concerned department and appear for an oral presentation before PRC. The report and the oral presentation shall carry 40% and 60% weightages respectively. For summer internship/industrial training,

There will be **only internal evaluation of 100 marks**. A candidate has to secure a minimum of **50% of marks** to be declared successful.

- 6.4 The objective of comprehensive viva-voce is to assess the overall knowledge of the student in the relevant field of Engineering/Specialization in the PG program. Viva will be conducted **in 3<sup>rd</sup> semester**. For comprehensive viva-voce, there will be **only internal evaluation of 100 marks**. A candidate has to secure a minimum of **50% of marks** to be declared successful.

- 6.5 **Registration of Dissertation/Project Work:** A candidate is permitted to register for the project work after **satisfying the attendance requirement of all the courses**, both theory and practical and duly **approved by PRC**.

- 6.6 After satisfying 6.5, student has to submit, in consultation with his project



- supervisor, the title, objective and plan of action of his project work for approval
- 6.7 If a candidate wishes to change his/her supervisor or topic of the project, he/she can do so with the approval of PRC. However, the PRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of project proposal. If yes, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.
- 6.8 Continuous assessment of **Dissertation-Part A and Dissertation-Part B** during the Semester(s) will be monitored by PRC. *Dissertation-Part A* will be only internal evaluation by PRC for **100 marks**. A candidate has to secure a minimum of **50%** of marks to be declared successful.
- 6.9 The candidate shall submit a status report to the PRC in two stages, each accompanied by an oral presentation, with a minimum interval of three months between the two.
- 6.10 The work on the project shall be initiated at the beginning of the III Sem and the duration of the project is two semesters. A candidate is permitted to submit Project Thesis (***Dissertation – Part A & Part B***) only with the approval of PRC not earlier than 40 weeks from the date of registration of the project work.
- 6.11 Three copies of the project thesis, printed on both sides of the page and certified by the supervisor, shall be submitted to the College/Institute along with the plagiarism report.
- 6.12 The **thesis** shall be adjudicated by one examiner selected by the Head of the institution. For this, the HOD of the department shall **submit a panel of 5 examiners**, eminent in that field, with the help of P.G.Coordinator.
- 6.13 If the report of the examiner is **not favourable**, the candidate shall revise and resubmit the Thesis, in the time frame as decided by the PRC. If the report of the examiner is **not favourable** again, the thesis shall be summarily rejected. The candidate has to reregister for the project and complete the project within the stipulated time after taking the approval from the University/Institution.

6.14 If the report of the examiner is favourable, Viva-Voce examination shall be conducted by a board consisting of the Supervisor, HOD and the examiner who adjudicated the Thesis. The Head of the Department shall coordinate and make arrangements for the conduct of Viva-Voce examination. The Board shall jointly report the candidate's work for a maximum of 100 marks. **Corresponding grade will be awarded by the University/Institution.**

6.15 If the report of the **Viva-Voce is unsatisfactory** (i.e., < 50 marks), the candidate shall retake the Viva-Voce examination **only after three months**. If he fails to get a satisfactory report at the second Viva-Voce examination, the candidate has to re-Register for the project and complete the project within the stipulated time after taking the approval from the College.

#### **6.0 Cumulative Grade Point Average (CGPA):**

<b>Marks Range Theory/Lab/ Mini Project/Project Work /Seminar/Viva-voce/ Dissertation/Internship (Max-100)</b>	<b>Letter Grade</b>	<b>Level</b>	<b>Grade Point</b>
≥ 90	S	Outstanding	10
≥ 80 to <90	A	Excellent	9
≥ 70 to <80	B	Very Good	8
≥ 60 to <70	C	Good	7
≥ 50 to <60	D	Fair	6
< 50	F	Fail	3
		Absent	0

#### **Computation of SGPA**

- The following procedure is to be adopted to compute the Semester Grade Point Average(SGPA) and Cumulative Grade Point Average(CGPA):
- The **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

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

- Where  $C_i$  is the number of credits of the  $i^{\text{th}}$  course and  $G_i$  is the grade point scored by the student in the  $i^{\text{th}}$  course.

### Computation of CGPA

- The **CGPA** is also calculated in the same manner taking into account all the courses undergone by a student over all the semester of a Programme, i.e.  
$$\text{CGPA} = \sum (C_i \times S_i) / \sum C_i$$
- Where  $S_i$  is the SGPA of the  $i^{\text{th}}$  semester and  $C_i$  is the total number of credits in that semester.
- The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.
  - **Equivalent Percentage = (CGPA-0.5) x10**
- **Re-evaluation of the End Semester Examination:**

A student can request for Revaluation of his/her answer book on payment of a prescribed fee as per college norms.

**Note:** Revaluation applicable for Semester End Examinations (SEE) of Theory Courses Only.
- **Supplementary Examinations:**

A student who has failed to secure the required credits can appear for a supplementary examination, as per the schedule announced by the college.
- **Malpractices in Examinations:**

Disciplinary action shall be taken in case of malpractices during Mid/End examinations as per the rules framed by the college.
- **Third valuation:** If the difference between the First valuation and Revaluation is more than 20% of the marks, then those scripts will be sent for Third valuation.

## **7.0 AWARD OF DEGREE AND CLASS**

After a student has satisfied the requirements prescribed for the completion of the program and is eligible for the award of M. Tech. Degree he shall be placed in one of the following Three classes:

Class Awarded	CGPA to be secured	<b>From the CGPA secured from 80 credits</b>
First Class with Distinction	$\geq 7.5$ (without supplementary History)	
First Class	$\geq 6.5$	
Second Class	$\geq 6.0$ to $< 6.5$	

The secured grade, grade points, status and credits obtained will be shown separately in the memorandum of marks.

If a student wants to leave the program / exit after successful completion of first two semesters, he/she will be **awarded Post Graduate Diploma** in the specialization concerned.



## **8.0 WITH HOLDING OF RESULTS**

If the student has not paid the dues, if any, to the college or if any case of indiscipline is pending against him, the result of the student will be withheld. His degree will be withheld in such cases

### **GENERAL**

- 8.1 Wherever the words “he”, “him”, “his”, occur in the regulations, they include “she”, “her”, “hers”.
- 8.2 The academic regulation should be read as a whole for the purpose of any interpretation.
- 8.3 In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Principal is final.
- 8.4 The College may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the College.



## MALPRACTICES RULES:

### DISCIPLINARY ACTION FOR /IMPROPER CONDUCT IN EXAMINATIONS

	Nature of Malpractices/Improper conduct	Punishment
	<i>If the candidate:</i>	
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 <b>Confidential Section.</b>

3.	Impersonates any other candidate in connection with the examination.	Both the candidates involved in the malpractice will forfeit their 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 University 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 Chief Superintendent/Assistant – Superintendent / 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 officer-in charge 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 officer in-charge, or any person on duty in	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.

	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 College campus 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.	
7.	Leaves the exam hall taking away answer script or intentionally tears of 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 University 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.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	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 <b>Principal</b> for further action to award suitable punishment.	