

ACADEMIC REGULATIONS (R16) FOR B.TECH PROGRAMME

UNDER AUTONOMOUS STATUS

(With effect from the Admitted Batch of 2016-17)

I. Admissions:

Admissions into first year of B.Tech. Programme and admissions into second year (lateral entry) of B.Tech. Programme of the Institution will be as per the norms stipulated by Andhra University & Andhra Pradesh State Council for Higher Education (APSCHE), Govt. of Andhra Pradesh. The academic regulations of Autonomous status mentioned here with will be applicable from 2017-18 in case of Lateral Entry admissions.

II. Programmes Offered:

The following are the B.Tech. Programmes offered by the Institution.

- 1 Civil Engineering
- 2 Computer Science & Engineering
- 3 Electrical & Electronics Engineering
- 4 Electronics & Communication Engineering
- 5 Information Technology
- 6 Mechanical Engineering

III. Structure of the B. Tech. Programme:

The programme of instruction will consist of Humanities, Basic Sciences, Engineering Sciences and Technology. The complete programme is distributed over eight semesters with two semesters per academic year. Every branch of B.Tech programme will have a curriculum and syllabi for the courses recommended by the Board of Studies (BOS) and approved by the Academic Council. The academic programmes of the Institution follow the credit system. The curriculum of B.Tech programmes (regular & lateral entrants) is designed to have a total number of credits as specified by BOS of the concerned department and of which a student can forego 8 credits of his choice to get the degree awarded. However, the credits which a student can forego will be in accordance with the mandatory courses and electives offered by the individual departments.

IV. Duration of the Programme:

The duration of the programme is four academic years consisting of two semesters in each academic year. A student is permitted to complete the programme in a stipulated time frame of 8 consecutive academic years from the date of initial admission. Students joining the programme in the 2nd year through lateral entry scheme shall have to complete the programme in a stipulated time frame of 6 consecutive academic years from the date of initial admission.

V. Medium of Instruction:

The medium of instruction and examination is English.

VI. Minimum Instruction Days:

Each semester normally consists of a minimum of 16 weeks of instruction.

VII. Academic Calendar:

The dates of all important events, such as commencement of class work, examinations, vacations, etc., during the academic year will be specified in the Academic Calendar of the Institution, as approved by the Academic Council.

VIII. Attendance Regulations:

Attendance of a student is computed by considering total number of periods conducted in all courses as the denominator and the total number of periods actually attended by the student in all courses, as the numerator. It is desirable for a student to put in 100% attendance in all the subjects. However, a candidate shall be permitted to appear for the semester end examination provided he maintains a minimum of 75% overall attendance in that semester.

The shortage of attendance on medical grounds can be condoned up to a maximum of 9% provided the student attains at least 66% attendance and the Principal is satisfied with the genuineness of the reasons. The Medical Certificate is to be submitted to the Head of the Department when the candidate reports to the classes immediately after the absence. Condonation fee as fixed by the college for those whose attendance is between $\geq 66\%$ and $<75\%$ shall be charged before the semester-end examinations.

In the case of students who participate in co-curricular, extra-curricular activities like student seminars, N.S.S, N.C.C, Inter-collegiate tournaments and any such other activities involving the representation of the Institution, with the prior approval of the

Principal, the candidate may be deemed to have attended the classes during the actual period of such activity, solely for the purpose of attendance.

A student, who could not satisfy the minimum attendance requirement of 66% in any semester, shall be declared 'Detained'. He is not eligible to appear for the semester end examinations. He will not be promoted to the next semester and shall have to repeat that semester with the next batch(es) of students. Such students who are detained and seek readmission, should submit an undertaking/a declaration that they will abide by the regulations existing at the time of readmission.

IX. Examinations & Evaluation Process:

The examinations for the B. Tech Degree shall be conducted as per the prescribed Schemes in all the branches of study offered by S.R.K.R. Engineering College (Autonomous).

(A) Theory Course:

For all theory courses, the assessment shall be for 30 marks through internal evaluation and 70 marks through external semester-end examination of three hours duration except for the subjects with 100% internal assessment in which case an internal examination will be conducted for 100 marks along with the semester-end examinations.

i) Internal Evaluation:

The sessional marks shall be awarded through internal evaluation by the teachers concerned based on the continuous assessment which includes class tests, quiz, viva-voce, assignments, student regularity, two mid-examinations etc., according to a scheme notified by the department at the beginning of the semester.

Out of the 30 internal marks, 15 marks are assigned for internal-mid exam, 5 marks for assignments, 5 marks for projects/ case studies /quiz/tests and 5 marks for attendance. The better of 2 internal-mid exams is considered for the 15 marks allocated.

ii) External Evaluation:

Valuation: The Question paper shall be set externally and the answer scripts also will be valued externally only. There will be only Single Valuation for B.Tech.

Revaluation: As per the Notification issued by Dean(Evaluation) / Controller of Examinations, the students can submit the applications for revaluation, along with

the fee receipt of revaluation of his/her answer script(s) of theory course(s), if he is not satisfied with the Grade obtained.

The Controller of Examinations shall arrange for revaluation of those answer script(s). A New external examiner, other than the first examiner, shall re-evaluate the answer script. Better marks of the two will be taken into consideration for awarding grade.

Note: Recounting and Challenge valuation will not be entertained

(B) Laboratory Course:

Each student will perform about 10 to 12 experiments in each laboratory course. Laboratory course will be evaluated for 100 marks, out of which 50 marks are for external examination and 50 marks are for internal evaluation. Out of the 50 internal evaluation marks, 25 marks are assigned for internal lab examination, 10 marks for record work, 10 marks are awarded based on continuous assessment and 5 marks for attendance. The external examination will be conducted by two examiners, one of them being laboratory class teacher as internal examiner (nominated by the Principal on recommendation of HOD) and an external examiner nominated by the Principal from the panel of experts recommended by the HOD.

Candidates shall be required to produce complete and certified records of the work done by them in each of the practical subjects at the time of semester end practical examination, failing which they will not be allowed for such examination.

(C) Project Work :

The Project work will be evaluated for 200 marks, out of which 100 marks are evaluated internally and the remaining 100 marks are evaluated at the end of IV Year by the Project Review committee consisting of at least one external expert nominated by the Principal. If a student fails in the project, he has to appear for reassessment within one month for which he has to pay the re-examination fee.

(D) Supplementary Examination:

There will be supplementary examination for the programme such that for odd semester courses the supplementary exams will be conducted during summer vacation and for the even semester courses, the supplementary exams will be conducted during the winter vacation.

(E) There is no provision for improvement for sessional marks alone. However if the candidate wants to improve the sessional marks, the candidate has to seek readmission for all subjects in that particular semester.

X. Award of Grades:

The Marks thus obtained will be converted to grades on a 10.0 point scale and then to semester grade point average (SGPA) and subsequently cumulative grade point average (CGPA) is awarded at the end of the course

S.No.	Range of Marks (%)	Grade	Grade Points	Description
01	> 90 ≤100	O	10	Outstanding
02	> 80 ≤ 90	A+	9	Excellent
03	> 70 ≤ 80	A	8	Very Good
04	> 60 ≤ 70	B+	7	Good
05	> 55 ≤ 60	B	6	Above Average
06	≥ 50 ≤ 55	C	5	Average
07	≥ 40 < 50	P	4	Pass
08	< 40	F	0	Fail
09		F	0	(Ab)Absent

Cumulative Grade Point Average (CGPA) will be calculated from II semester onwards up to the final semester. CGPA multiplied by “10” gives aggregate percentage of marks obtained by a candidate.

The performance of a student at the end of the each semester is indicated in terms of Semester Grade Point Average (SGPA). The SGPA is calculated as below:

$$SGPA = \frac{\sum (\text{Credits of a course} \times \text{Grade points awarded for a course})}{\sum (\text{Credits of a course})}$$

SGPA is calculated for the candidates who have passed in all the courses in that semester.

CGPA calculation is similar to that of SGPA, considering all the courses offered from the first semester onwards.

CGPA is calculated for those who clear all the courses in all the previous semesters. The credits of audit courses are not counted for SGPA/CGPA calculation.

XI. Award of Degree:

A candidate shall be declared to have passed in a subject / paper, if the candidate secures a minimum of 'P' grade in theory examination and a minimum of 'C' grade in practical examination / Project / Field Work / Viva-Voce / Industrial Training / Seminar.

Further, a candidate has to secure a minimum of 40% in theory examination (excluding sessional marks) and a minimum of 50% (excluding sessional marks) in the practical examination / Project / Field Work / Viva-Voce / Industrial Training / Seminar in Semester-end examinations.

A) Betterment :

A candidate can avail the betterment chances during the validity of all the courses.

B) Award of Marks by Grafting:

The application of grafting will be extended only to the candidate who secures a required a pass after affecting of rule of graft. Grafting will be done from other Theory / Practical External Examination papers only. Grafting will not be allowed from Sessional marks.

Grafting of maximum 1% of total marks of semester External marks will be allowed. Grafting will be awarded for Theory/lab including sessional marks for not more than two subject/papers in semester-end examinations.

There are no grace marks.

XII. Award of Class:

A candidate, who becomes eligible for the award of B.Tech.Degree, shall be placed in one of the following classes.

S.No.	Class	CGPA
1	First Class with Distinction	CGPA \geq 7.0 *
2	First Class	6.0 \leq CGPA < 7.0
3	Second Class	5.0 \leq CGPA < 6.0

***First class with Distinction will be awarded only to those students who clear all the subjects of the program in first attempt of regular examinations.**

The CGPA can be converted to aggregate percentage by multiplying CGPA with 10, in case of requirement by any other university or for any other purpose.

XIII. Eligibility for Award of B.Tech. Degree:

A student shall be eligible for the award of the B.Tech degree if he fulfills all the following conditions:

- 1) The student is declared to have passed all the subjects (theory and practical subjects) included in the Scheme of Examination of 8 semesters (6 semesters in case of lateral entrants) and should secure a minimum CGPA of 5.0.
- 2) Registered and successfully completed all the components prescribed for eligibility in the Programme of study to which candidate is admitted within the stipulated period,
- 3) No disciplinary action is pending against him
- 4) Has no dues to the Institution including hostels.
- 5) Students, who fail to complete their B.Tech. Programme within eight academic years from the year of their admission or fail to acquire the credits stipulated for the programme shall forfeit their seat in B.Tech. Programme and their admission shall stand cancelled. For lateral entry students they have to complete the programme in six years from their year of admission.

XIV. Malpractices:

The Controller of Examinations/Dean of Examinations shall refer the cases of suspected malpractices in mid examinations and semester-end examinations to Malpractice Enquiry Committee constituted by the Institution. Such committee shall follow the approved scales of punishment. The Principal shall take necessary action against the erring students based on the recommendations of the committee.

XV. Amendments to Regulations:

The Institution may, from time to time, revise, amend, or change the Regulations, Schemes of Examinations, and / or Syllabi and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the Institution.

XVI. General:

- (i) Where the words 'he', 'him', 'his', occur in the regulations, they include 'she', 'her', 'hers'.**
- (ii) The academic regulation should be read as a whole for the purpose of any interpretation.**
- (iii) In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Principal is final.**