

**(An Autonomous Institution)**

Approved by AICTE | Affiliated to JNTUH | Accredited by NAAC 'A' Grade  
 Ananthasagar (V), Hasanpathy (M), Warangal – 506 371, Telangana.

**ACADEMIC REGULATIONS – RA15  
 FOR CBCS BASED REGULAR B.TECH. (UG) PROGRAMME**

*(Effective for the students admitted into First Year Regular B.Tech. from the Academic Year 2015-16 and onwards)*

**1.0 Under-Graduate Degree Programme in Engineering & Technology (UGP in E&T)**

SR Engineering College (SREC) - (Autonomous), Warangal affiliated to Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers 4 Year (8 Semesters) **Bachelor of Technology (B.Tech.)** Degree Programme, under Choice Based Credit System (CBCS), with effect from the Academic Year 2015 - 16 onwards, in the following Branches of Engineering:

Branch Code	Branch
01	Civil Engineering (CE)
02	Electrical and Electronics Engineering (EEE)
03	Mechanical Engineering (ME)
04	Electronics and Communication Engineering (ECE)
05	Computer Science and Engineering (CSE)

**2.0 Eligibility for Admission**

- 2.1 Admission to the UGP shall be made either on the basis of the merit rank obtained by the qualifying candidate at an Entrance Test conducted by the Telangana State Government (EAMCET), OR the University, OR on the basis of any other order of merit approved by the University, subject to reservations as prescribed by the Government from time to time.
- 2.2 The medium of instructions for the entire UGP in E&T will be **English** only.

**3.0 B.Tech. Programme (UGP) Structure**

3.1 The B.Tech. Programme of SREC are of Semester Pattern, with 8 Semesters constituting 4 Academic Years, each Academic Year having TWO Semesters (First/Odd and Second/Even Semesters). Each semester shall be of 22 weeks duration (inclusive of examinations), with a minimum of 90 instructional days per semester.

- A student, after securing admission, shall pursue the UGP in B.Tech. in a minimum period of 4 academic years (8 semesters), and a maximum period of 8 academic years (16 semesters) starting from the date of commencement of first year first semester; failing which, student shall forfeit seat in B.Tech. programme.
- Each student shall register for and secure the specified number of credits (with CGPA $\geq$ 5) required for the completion of the UGP and award of the B.Tech. degree in respective branch of engineering.
- Each semester is structured to provide 24 credits, totalling to 192 credits for the entire B.Tech. programme.

3.2 UGC/ AICTE specified definitions / descriptions are adopted appropriately for various terms and abbreviations used in these Academic Regulations / Norms, which are as listed below.

**3.2.1 Semester Scheme**

Each UGP is of 4 academic years (8 semesters), with the year being divided into two semesters of 22 weeks ( $\geq$  90 working days) each, each semester having - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) as denoted by UGC, and Curriculum / Course structure as suggested by AICTE are followed.

**3.2.2 Credit Courses**

All subjects / courses are to be registered by a student in a semester to earn credits. Credits which shall be assigned to each subject / course in a L: T: P/D: C (Lecture Periods: Tutorial Periods: Practical / Drawing Periods: Credits) structure, based on the following general pattern.

- One Credit - for one hour / week / semester for Theory or Lecture (L) subject.
- One Credit - for two hours / week / semester for Laboratory or Practical (P) ; Drawing (D) subjects and Tutorial (T).

Subjects / Courses like Gender Sensitization, Business Communication and Public Speaking are considered as Mandatory Courses. Student activities like Sports / NSS / Yoga / Dance / Music / Arts / Sketching etc., are identified as Audit Courses. Student has to choose any two different Audit Courses from the specified list and he has to complete one in the First year First Semester and the other in the First year Second Semester. **These Mandatory and Audit Courses will not carry any credits.**

### 3.2.3 Subject / Course Classification

All subjects / courses offered for the UGP in E&T (B.Tech Degree Programme) broadly classified as follows;

S. No.	Broad Course Classification	Course Group / Category	Course Description	Range of Credits
1	Foundation Courses (FnC)	HS – Humanities and Social Sciences	Includes - subjects related to Humanities, Social Sciences and Management	5-10%
2		BS – Basic Sciences	Includes - Mathematics , Physics, Chemistry and Environmental Studies	15-20 %
3		ES – Engineering Sciences	Includes - fundamental Engineering subjects	15-20 %
4	Core Courses (CoC)	Professional Core	Includes - Core subjects related to the parent discipline / Department / Branch of Engineering	30-40%
5		Project Work	Media Project; Certification Course / Mini Project / App Development; Major Project / Practice School	10-15%
6		Seminar	Technical Seminar	
7	Elective Courses (E/C)	Professional Electives	Includes - Elective subjects related to the parent discipline / Department / Branch of Engineering	10-15%
8		OE – Open Electives	Elective subjects which include interdisciplinary subject or subjects in an area outside the parent discipline / Department / Branch of Engineering	5-10%
9	Non-Credit Courses	AC-Audit Courses	Includes - Sports / NSS / Yoga / Dance / Music / Arts / Sketching etc.	-
10		MC-Mandatory Courses	Includes - Gender Sensitisation, Business Communication & Public Speaking	-
Total Credits of B.Tech. Programme				192 (100%)

## 4.0 Course Registration

- 4.1 A 'Faculty Advisor or Counselor' shall be assigned to a group of students, who will advise about the UG Programme, its course structure and curriculum, choice / option for subjects / courses, based on their competence, progress, pre-requisites and interest.
- 4.2 Academic section of the college invites 'registration forms' from students before the beginning of the semester through 'on-line registration'. The on-line registration requests for any 'current semester' shall be completed before the commencement of semester end examinations of the 'preceding semester'.
- 4.3 A student can apply for on-line registration, only after obtaining the 'written approval' from faculty advisor / counsellor, which should be submitted to the college academic section through the Head of the department. A copy of it shall be retained with Head of the department, faculty advisor/counsellor and the student.
- 4.4 A student may be permitted to register for his subjects / courses of **choice** with a total of 24 credits per semester (minimum being 20 credits and maximum being 28 credits per semester, permitted deviation being  $\pm 17\%$ ), based on progress, Semester Grade Point Average (SGPA) / Cumulative Grade Point Average (CGPA) and completion of the pre-requisites as indicated for

- various subjects / courses. However, a **minimum** of 20 credits per semester must be registered to ensure the '**studentship**' in any semester.
- 4.5 Choice for 'additional subjects / courses' to reach the maximum permissible limit of 28 credits (above the typical 24 credit norm) must be clearly indicated, which needs the specific approval and signature of the faculty advisor / counselor.
- 4.6 If the student submits ambiguous choices or multiple options or erroneous entries-during **on-line** registration for the subject(s) / course(s) under a given / specified course group / category as listed in the course structure, only the first mentioned subject / course in that category will be taken into consideration.
- 4.7 Subject / Course options exercised through ON-LINE registration are final and **can not** be changed, and CAN NOT be inter-changed; further, alternate choices will also not be considered. However, if the subject/ course that has already been listed for registration by the Head of Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice - either for a new subject (subject to offering of such a subject), or for another existing subject (subject to availability of seats). Such alternate arrangements will be made by the Head of department, with due notification and time-framed schedule, within the **first week** from the commencement of class-work for that semester.
- 4.8 Dropping of subjects / courses may be permitted, **ONLY AFTER** obtaining prior approval from the faculty advisor (subject to retaining a minimum of 20 credits), within a period of 15 days from the beginning of the current semester.
- 4.9 **Open Electives:** The students have to choose one open elective (OE-1) in III year I semester, one open elective (OE-2) in III year II semester, and one open elective (OE-3) in IV year II semester, from the list of open electives given. However, the student cannot opt for an open elective subject offered by their own (parent) department, if it is already listed under any category of the subjects offered by parent department in any semester.
- 4.10 **Professional Electives:** The students have to choose professional elective (PE-1) in III year II semester, professional electives (PE-2, PE-3 and PE-4) in IV year I semester, professional electives (PE-5 and PE-6) in IV year II semester, from the list of professional electives given. However, the students may opt for professional elective subjects offered in the related area.
- 4.11 Based on the industry / societal demand, additional relevant course(s) may be added under professional elective(s) and / or open elective(s).
- 5.0 Subjects / Courses to be Offered**
- 5.1 A typical section (or class) strength for each semester shall be 60.
- 5.2 A subject / course may be offered to the students, only if a minimum of 30 students (1/2 of the section strength) opt for it. The maximum strength of a section is limited to 90 (60 + 1/2 of the section strength).
- 5.3 More than **one faculty member** may offer the SAME SUBJECT (Lab. / Practical's may be included with the corresponding theory subject / course in the same semester) in any semester. However, selection choice for students will be based on - '**first come first serve** basis and CGPA criterion' (i.e., the first focus shall be on early **on-line entry** from the student for registration in that semester, and the second focus, if needed, will be on CGPA of the student).
- 5.4 If more entries for registration of a subject come into picture, then the Head of Department concerned shall decide whether to offer such a subject / course for TWO (or multiple) sections or not.
- 6.0 Attendance Requirements**
- 6.1 A student shall be eligible to appear for the semester end examinations, if student acquires a minimum of 75% of attendance in aggregate of all the subjects / courses (excluding audit and mandatory non-credit courses) for that semester.
- 6.2 Shortage of attendance in aggregate up to 10% (65% and above, and below 75%) in each semester may be condoned by the College Academic Committee on genuine and valid grounds, based on the student's representation with supporting evidence.
- 6.3 A stipulated fee shall be payable towards condoning of shortage of attendance.
- 6.4 Shortage of attendance below 65% in aggregate shall in NO case be condoned.

- 6.5 Students, whose shortage of attendance is not condoned in any semester, are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester. They may seek re-registration for all those subjects registered in that semester in which student was detained by seeking re-admission into that semester as and when offered; in case if there are any professional electives and/ or open electives, the same may also be re-registered if offered. However, if those electives are not offered in later semesters, then alternate electives may be chosen from the SAME set of elective subjects offered under that category.
- 6.6 A student fulfilling the attendance requirement in the present semester shall not be eligible for re-admission into the same class.

### 7.0 Academic Requirements

The following Academic Requirements have to be satisfied, in addition to the Attendance Requirements mentioned in Item No.6.

- 7.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject / course, if student secures not less than 35% marks (25 out of 70 marks) in the Semester End Examination, and a minimum of 40% of marks in the sum total of the Continuous Internal Evaluation (CIE) and Semester End Examination (SEE) taken together; in terms of letter grades, this implies securing 'P' grade or above in that subject / course.
- 7.2 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to Media Project; Certification Course / Mini Project /App Development; Major Project / Practice School and Technical Seminar, if student secures not less than 40% of the marks in each of them. If the student fail to satisfy in the above evaluation, the student may reappear once for each of the above evaluations, when they are scheduled again; if student fails in such 'one reappearance' evaluation also, student has to reappear for the same in the next subsequent semester, as and when it is scheduled.

### 7.3 Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	I year I semester to I year II semester	Regular course of study of I year I semester
2	I year II semester to II year I semester	i) Regular course of study of I year II semester ii) Must have secured at least 24 credits out of 48 credits i.e., 50% credits up to I year II sem from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3	II year I semester to II year II semester	Regular course of study of II year I semester
4	II year II semester to III year I semester	i) Regular course of study of II year II semester ii) Must have secured at least 58 credits out of 96 credits i.e., 60% credits up to II year II sem from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	III year I semester to III year II semester	Regular course of study of III year I semester
6	III year II semester to IV year I semester	i) Regular course of study of III year II semester ii) Must have secured at least 86 credits out of 144 credits i.e., 60% credits up to III year II sem from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
7	IV year I semester to IV year II semester	Regular course of study of IV year I semester.

- 7.4 A student shall register for all subjects covering 192 credits as specified and listed in the course structure, fulfills all the attendance and academic requirements for 192 credits, securing a

- minimum of 'P' grade (pass grade) or above in each subject, and 'earn all 192 credits by securing SGPA  $\geq$  5.00 (in each semester), and CGPA  $\geq$  5.00 (at the end of each successive semester), to successfully complete the UGP'.
- 7.5 After securing the necessary 192 credits as specified for the successful completion of the entire UG Programme, the student can avail exemption of 2 subjects up to 6 credits i.e. one open elective and one professional elective subject or two professional elective subjects for optional drop out from these 192 credits earned; resulting in 186 credits for UG Programme performance evaluation, i.e., the performance of the student in these 186 credits shall alone be taken into account for the calculation of the 'final CGPA(at the end of UG Programme, which takes the SGPA of the IV year II semester into account)', and shall be indicated in the Grade Card of IV year II semester; however, the student's performances in the earlier individual semesters, with the corresponding SGPA and CGPA for which already grade cards are given, will not be altered.
- 7.6 If a student registers for some more '**extra subjects**' (in the parent department or other departments / branches of engg.) other than those listed subjects totaling to 192 credits as specified in the course structure of his department, the performances in those '**extra subjects**' (although evaluated and graded using the same procedure as that of the required 192 credits) will not be taken into account while calculating the SGPA and CGPA. For such '**extra subjects**' registered, Letter Grade alone will be indicated in the Grade Card, as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1-7.5 above.
- 7.7 A student eligible to appear in the SEE in any subject / course, but absent from it or failed (thereby failing to secure P grade or above), may reappear for that subject / course in the supplementary examination as and when conducted. In such cases, CIE assessed earlier for that subject / course will be carried over, and added to the marks to be obtained in the SEE supplementary examination, for evaluating performance in that subject.
- 7.8 A student detained in a semester due to shortage of attendance, may be re-admitted when the same semester is offered in the next academic year for fulfillment of academic requirements. The academic regulations under which student has been readmitted shall be applicable. However, no grade allotments of SGPA / CGPA calculations will be done for the entire semester in which student has been detained.
- 7.9 A student detained due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits. The academic regulations under which student has been readmitted shall be applicable to him.
- 8.0 Evaluation - Distribution and Weightage of Marks**
- 8.1 The performance of a student in each semester shall be evaluated subject-wise (irrespective of credits assigned) with a maximum of 100 marks for Theory or Practical or Drawing / Design or Media Project or Certification Course / Mini Project / App Development; however, the Major Project / Practice School will be evaluated for 150 marks and Technical Seminar will be evaluated for 50 marks.
- 8.2 For all subjects / courses, the distribution shall be 30 marks for Continuous Internal Evaluation(CIE), and 70 marks for the Semester End Examination(SEE).The distribution shall be 50 marks for CIE, and 50 marks for the SEE in case of activity based courses.
- 8.2.1 For theory subjects, during the semester, there shall be 2 mid-term examinations for 20 marks each. Each mid-term examination question paper comprises of 5 marks for objective and 15 marks for subjective to be answered in a duration of 90 minutes. Objective paper may be set with multiple choice questions, True / False, fill-in the blanks, matching type questions, etc. Subjective paper shall contain 5 questions, out of which the student has to answer 3 questions, each for 5 marks. The first mid-term examination marks shall make one set of CIE marks and the second mid-term examination marks shall make second set of CIE marks. 75% of the marks shall be taken from the better of these two sets and 25% from the other set as the final marks secured by the student out of 20 marks towards Continuous Internal Evaluation (CIE) in that theory subject / course. Further, there will be an allocation of 5 marks for course activity / assignment and 5 marks for attendance at the end of the semester as a part of CIE. The assignment / course activity shall be as specified by the concerned subject teacher.

- 8.2.2 The first mid-term examination shall be conducted for the first 50% of the syllabus, and the second mid-term examination shall be conducted for the remaining 50% of the syllabus.
- 8.2.3 For Theory Subjects, Semester End Examination(SEE) question paper pattern is as follows.
- The end semester examination will be conducted for 70 marks consisting of 2 parts viz. (1) PART-A for 20 marks, (2) PART-B for 50 marks.
  - PART-A consists of ten compulsory questions (numbered from 1 to 10) carrying 2 marks each. Two questions from each unit should be given.
  - PART-B consists of 8 questions (numbered from 1 to 8) from 5 units, comprising of atleast one question from each unit. Out of which student has to answer any 5. Each question carries 10 marks.
- 8.2.4 For activity based courses such as English-I, English-II, Introduction to Engineering, Environmental Studies, Foundations to Product Design and specified courses in the list of open electives, the distribution shall be 50 marks for CIE, and 50 marks for SEE. However, for the subjects / courses such as Introduction to Engineering, Foundations to Product Design, Cognitive Engineering, EPICS and Technology Entrepreneurship, the Semester End Examination shall be conducted by concerned teacher and a senior faculty appointed by the Controller of Examinations / Principal.
- 8.2.5 For subjects / courses such as Engineering Ethics, Technical Writing, Internet of Things and Project Mangement the Semester End Examination (SEE) Marks distribution shall be 20 for Activity / Article and 50 for External Examination. Activity / Article will be evaluated by concerned teacher and senior faculty member of the department.
- 8.2.6 If any student is absent from any subject of a mid-term examination, a chance will be given by the Principal to write examination on a genuine and valid reason of absence based on students' representation.
- 8.3 For Practical Subjects / Courses, there shall be a Continuous Internal Evaluation (CIE) during the semester for 30 internal marks and 70 marks are assigned for Semester End Examination (SEE). Out of the 30 marks for internals, day-to-day work in the laboratory shall be evaluated for 20 marks; and for the remaining 10 marks - two internal practical tests (each of 10 marks) shall be conducted by the concerned laboratory teacher and the better of these two tests is taken into account. The SEE for practicals shall be conducted at the end of the semester by the concerned internal examiner, duly assigned by that department, along with an External Examiner concerned with the course drawn from another institution. The External Examiner will be appointed by the Controller of Examinations / Principal in consultation with the Head of the department, as and when required.
- 8.4 For the subjects having Design and / or Drawing, (such as Engineering Drawing with CAD, Sketching and Computer Aided Drafting, Building Drawing and CAD) the distribution shall be 30 marks for CIE (15 marks for day-to-day work, 10 marks for internal tests and 5 marks for attendance) and 70 marks for SEE. There shall be two internal tests in a semester and 75% of the marks shall be taken from the better of these two sets and 25% from the other set as the final marks secured by the Student towards CIE in that subject / course.
- 8.5 Media Project and Certification Course / Mini Project / App Development shall be submitted in a report form, and a presentation of the same shall be made before a committee, which evaluates it for 100 marks. The committee shall consist of the Head of the department, supervisor and a senior faculty member of the department. There shall be no SEE.
- 8.6 For the Technical Seminar, the student shall collect the information on a specialised topic, prepare a technical report and submit to the department at the time of seminar presentation. The seminar presentation (along with technical report) shall be evaluated by two faculty members assigned by the Head of the department for 50 marks. There shall be no SEE.
- 8.7 Major Project / Practice School is evaluated for 150 marks. Out of total 150 marks allotted, 50 marks shall be for CIE and 100 marks for the SEE. The project *viva-voce* shall be conducted by a committee comprising of an External Examiner, Head of the department and Project Supervisor. Out of 50 marks allocated for CIE, 25 marks shall be awarded by the project supervisor (based on the continuous evaluation of student's performance throughout the project work period), and the other 25 marks shall be awarded by a departmental committee consisting of Head of the Department and project supervisor, based on the work carried out and presentation made by the student.

- 8.8 For any of the Audit Course offered in a semester to the student, he/she shall be declared as 'satisfactorily completed' by the concerned authorities; only after securing  $\geq 65\%$  of attendance with an active participation in such a course. No marks or grade shall be allotted to these courses.
- 8.9 For any of the Mandatory Course offered in a semester to the student, he/she shall be declared as 'satisfactorily completed' by the concerned authorities; based on securing  $\geq 65\%$  of attendance and 40% of marks in CIE. There shall be no SEE. No marks or letter grade shall be allotted for these courses.

### 9.0 Grading Procedure

- 9.1 Marks will be awarded to indicate the performance of student in each theory subject, laboratory / practicals, media project, certification course / mini project / app. development, technical seminar and major project / practice school. Based on the % marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 8 above, and a corresponding Letter Grade shall be given.
- 9.2 As a measure of the student's performance, a 10-point absolute grading system using the following letter grades (as per UGC / AICTE guidelines) and corresponding percentage of marks shall be followed.

<b>% of Marks Secured (Class Intervals)</b>	<b>Letter Grade (UGC Guidelines)</b>	<b>Grade Points</b>
80% and above ( $\geq 80\%$ , $\leq 100\%$ )	O (Outstanding)	10
Below 80% but not less than 70% ( $\geq 70\%$ , $< 80\%$ )	A <sup>+</sup> (Excellent)	9
Below 70% but not less than 60% ( $\geq 60\%$ , $< 70\%$ )	A (Very Good)	8
Below 60% but not less than 55% ( $\geq 55\%$ , $< 60\%$ )	B <sup>+</sup> (Good)	7
Below 55% but not less than 50% ( $\geq 50\%$ , $< 55\%$ )	B (Above Average)	6
Below 50% but not less than 45% ( $\geq 45\%$ , $< 50\%$ )	C (Average)	5
Below 45% but not less than 40% ( $\geq 40\%$ , $< 45\%$ )	P (Pass)	4
Below 40% ( $< 40\%$ )	F (FAIL)	0
Absent	Ab	0

- 9.3 A student obtaining 'F' grade in any subject shall be considered 'failed' and will be required to reappear as 'supplementary candidate' in the Semester End Examination(SEE), as and when offered. In such cases, Continuous Internal Examination(CIE) marks in those subject(s) will remain same as those obtained earlier.
- 9.4 A student who has not appeared for examination in any subject, 'Ab' grade will be allocated in that subject, and student shall be considered 'failed'. Student will be required to reappear as a 'supplementary candidate' in the Semester End Examination, as and when offered.
- 9.5 A Letter Grade does not imply any specific % of marks secured by the student, but it indicates only the 'range of % of marks'.
- 9.6 A student earns Grade Point (GP) in each subject / course, on the basis of the letter grade obtained in that subject / course (excluding Audit and mandatory non-credit courses). The corresponding 'Credit Points' (CP) are computed by multiplying the Grade Point with Credits for that particular subject / course.

$$\text{Credit Points (CP)} = \text{Grade Point (GP)} \times \text{Credits .... for a subject / course}$$

- 9.7 The student passes the subject/ course only when he gets  $GP \geq 4$  (P grade or above).
- 9.8 The Semester Grade Point Average (SGPA) is calculated by dividing the sum of credit points ( $\Sigma CP$ ) secured from ALL subjects / courses registered in a semester, by the total number of credits registered during that semester. SGPA is rounded off to TWO decimal places. SGPA is thus computed as

$$\text{SGPA} = \left\{ \sum_{i=1}^N C_i G_i \right\} / \left\{ \sum_{i=1}^N C_i \right\} \dots \dots \text{for each semester,}$$

Where, ‘i’ is the subject indicator index (takes into account all subjects in a semester), ‘N’ is the number of subjects ‘REGISTERED’ for the semester (as specifically required and listed under the course structure of the parent department),  $C_i$  is the no. of credits allotted to the  $i^{\text{th}}$  subject, and  $G_i$  represents the grade point corresponding to the letter grade awarded for that  $i^{\text{th}}$  subject.

9.9 The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in **all** registered courses in all semesters, and the total number of credits registered in **all** the semesters. CGPA is rounded off to **two** decimal places. CGPA is thus computed from the I year second semester onwards, at the end of each semester, as per the formula

$$\text{CGPA} = \left\{ \sum_{j=1}^M C_j G_j \right\} / \left\{ \sum_{j=1}^M C_j \right\} \dots \dots \text{for all S semesters registered}$$

(i.e., upto and inclusive of S semesters,  $S \geq 2$ ),

Where, ‘M’ is the TOTAL number of subjects (as specifically required and listed under the course structure of the parent department) the student has ‘Registered’ from the first semester onwards upto and inclusive of the semester S (obviously  $M > N$ ), ‘j’ is the subject indicator index (takes into account all subjects from 1 to S semesters),  $C_j$  is the number of credits allotted to the  $j^{\text{th}}$  subject, and  $G_j$  represents the grade points corresponding to the letter grade awarded for the  $j^{\text{th}}$  subject. After registration and completion of first year first semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

**Illustration of calculation of SGPA**

Course / Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	8	4 x 8 = 32
Course 2	4	O	10	4 x 10 = 40
Course 3	4	C	5	4 x 5 = 20
Course 4	3	B	6	3 x 6 = 18
Course 5	3	A+	9	3 x 9 = 27
Course 6	3	P	4	3 x 4 = 12
	21			149

$$\text{SGPA} = 149 / 21 = 7.09$$

**Illustration of calculation of CGPA**

Course / Subject	Credits	Letter Grade	Grade Points	Credit Points
<b>I Year I Semester</b>				
Course 1	4	A	8	4 x 8 = 32
Course 2	4	A+	9	4 x 9 = 36
Course 3	4	B	6	4 x 6 = 24
Course 4	3	O	10	3 x 10 = 30
Course 5	3	B+	7	3 x 7 = 21
Course 6	3	A	8	3 x 8 = 24
<b>I Year II Semester</b>				
Course 7	4	B+	7	4 x 7 = 28
Course 8	4	O	10	4 x 10 = 40
Course 9	4	A	8	4 x 8 = 32
Course 10	3	B	6	3 x 6 = 18
Course 11	3	P	4	3 x 4 = 12
Course 12	3	A+	9	3 x 9 = 27
Total Credits & Points	42			324

$$\text{CGPA} = 324/42 = 7.71$$

- 9.10 For merit ranking or comparison purposes or any other listing, **only** the ‘**rounded off**’ values of the CGPAs will be used.
- 9.11 For calculations listed in Item 9.6 – 9.10, performance in failed subjects / courses (securing F grade) will also be taken into account, and the credits of such subjects / courses will also be included in the multiplications and summations. After passing the failed subject(s) newly secured letter grades will be taken into account for calculation of SGPA and CGPA. However, Mandatory Courses and Audit Courses will not be taken into consideration in such calculations.

### 10.0 Passing Standards and Improvement

- 10.1 A student shall be declared ‘successful’ or ‘passed’ in a semester, if student secures a  $GP \geq 4$  (‘P’ grade or above) in every subject / course in that semester; only, when student gets a  $SGPA \geq 5.00$  at the end of that particular semester. A student shall be declared ‘successful’ or ‘passed’ in the entire UGP, only when gets a  $CGPA \geq 5.00$  for the award of Degree, as required.
- 10.2 In spite of securing P grade or above in some (or all) subjects/ courses in any semester, if a student receives a  $SGPA < 5.00$  and / or  $CGPA < 5.00$  at the end of such a semester, then student ‘may be allowed’ (on the ‘specific recommendations’ of the Head of the Department and subsequent approval from the Principal) –
- (i) to go into the next subsequent semester (subject to fulfilling attendance and academic requirements as listed under Items 6 & 7).
- (ii) to ‘improve SGPA of such a semester (and hence CGPA) to 5.00 or above’, by reappearing for ONE or MORE (as per student’s choice) of the same subject(s) / course(s) in which student has secured P grade(s) in that semester, at the supplementary examinations to be held in the next subsequent semester(s). In such cases, internal marks (CIE marks) in those subject(s) will remain same as those he obtained earlier. In these considerations, the newly secured letter grades will be recorded and taken into account for calculation of SGPA and CGPA, ‘only if there is an improvement’.
- 10.3 A student shall be declared ‘successful’ or ‘passed’, if the student declared as ‘satisfactorily completed’ by the concerned authorities, in non-credit Audit / Mandatory Courses.
- 10.4 After the completion of each semester, a Grade Card or Grade Sheet (or Transcript) shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will show the details of the Courses Registered (Course Code, Title, etc.), Credits earned, Grade earned, SGPA, and CGPA. In case of non-credit courses, ‘Satisfactory (S)’ or ‘Not Satisfactory (NS)’ is indicated separately against that course / subject on the Grade Card / Sheet.

### 11.0 Declaration of Results

- 11.1 Computation of SGPA and CGPA are done using the procedure listed in 9.6 – 9.10.
- 11.2 For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

$$\% \text{ of marks} = (\text{final CGPA} - 0.5) \times 10$$

### 12.0 Award of Degree

- 12.1 A student who registers for all the specified subjects/courses as listed in the course structure and secures the required number of 192 credits (with  $CGPA \geq 5.00$ ), within 8 academic years from the date of commencement of the first academic year, shall be declared to have ‘**qualified**’ for the award of the B.Tech. degree in the chosen Branch of Engineering as selected at the time of admission.
- 12.2 A student who qualifies for the award of the degree as listed in Item 12.1, shall be placed in the following classes:
- 12.2.1 Students with final CGPA (at the end of the UG Programme)  $\geq 8.00$ , shall be placed in ‘FIRST CLASS with DISTINCTION’.
- 12.2.2 Students with final CGPA (at the end of the UG Programme)  $\geq 6.50$  but  $< 8.00$ , shall be placed in ‘FIRST CLASS’.
- 12.2.3 Students with final CGPA (at the end of the UGP)  $\geq 5.50$  but  $< 6.50$ , shall be placed in ‘SECOND CLASS’.

- 12.2.4 All other students who qualify for the award of the degree (as per Item 12.1), with final CGPA (at the end of the UGP)  $\geq 5.00$  but  $< 5.50$ , shall be placed in 'PASS CLASS'.
- 12.2.5 A student with final CGPA (at the end of the UGP)  $< 5.00$  will not be eligible for the award of the degree.
- 12.3 Students who have passed all the subjects or courses in 'first appearance' within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester with final CGPA  $\geq 8.00$  in respective branch and should not have been detained or prevented from writing the semester end examinations in any semester due to shortage of attendance or any other reason, and those who are First Five Rankers in the respective branch are eligible for the award of 'Rank Certificate' in that year. The 'Branch Topper' will be awarded with 'Gold Medal'.

### 13.0 Withholding of Results

- 13.1 If the student has not paid fees to College / University at any stage, or has pending dues against his name due to any reason whatsoever, or if any case of indiscipline is pending against him, the result of the student may be withheld, and he will not be allowed to go into the next higher semester. The award or issue of the degree may also be withheld in such cases.

### 14.0 Transitory Regulations

- 14.1 Student who has discontinued for any reason, or has been detained for want of attendance or lack of required credits as specified, or who has failed after having undergone the degree programme, may be considered eligible for readmission to the same subjects /courses (or equivalent subjects / courses, as the case may be), and same professional electives / open electives (or from set / category of electives or equivalents suggested, as the case maybe) as and when they are offered (within the time-frame of 8years from the date of commencement of his I year I semester).

### 15.0 Student Transfers

- 15.1 There shall be no branch transfers after the completion of admission process.
- 15.2 The students seeking transfer to SREC from various other universities / institutions, have to pass the failed subjects which are equivalent to the subjects of SREC, and also pass the subjects of SREC which the students have not studied at the earlier institution. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of SREC, the students have to study those subjects in SREC inspite of the fact that those subjects are repeated.
- 15.3 One chance is provided to write the internal examinations in the failed subjects and / or subjects not studied, to the students transferred from other universities / institutions to SREC who are on rolls, as per the clearance (equivalence) letter issued by the university.

### 16.0 Scope

- 16.1 The Academic Regulations should be read as a whole, for the purpose of any interpretation.
- 16.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Principal is final.
- 16.3 The College may change or amend the Academic Regulations, Course Structure or Syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the dates notified by the college authorities.

**Note:** Where the words "he", "him", "his", occur in the write-up of regulations, they include "she", "her", "hers".  
Where the words "subject" or "subjects", occur in these regulations, they also imply "course" or "courses".

**ACADEMIC REGULATIONS FOR B.TECH. (LATERAL ENTRY SCHEME - LES)**  
**(w.e.f. Academic Year 2016-17)**

1. **Eligibility for Award of B. Tech. Degree (LES)**

The LES students after securing admission shall pursue a course of study for not less than three academic years and not more than six academic years.

2. The student shall register for 144 credits and secure 144 credits with CGPA  $\geq 5$  from II year to IV year B.Tech. programme (LES) for the award of B.Tech. degree. Out of the 144 credits secured, the student can avail exemption up to 6 credits, that is, one open elective subject and one professional elective subject or two professional elective subjects resulting in 138 credits for B.Tech. programme performance evaluation.
3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Tech.
4. The attendance requirements of B. Tech. (Regular) shall be applicable to B.Tech. (LES).

5. **Promotion rule**

S. No.	Promotion	Conditions to be fulfilled
1	Second year first semester to Second year second semester	Regular course of study of second year first semester.
2	Second year second semester to Third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 29 credits out of 48 credits i.e., 60% credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3	Third year first semester to Third year second semester	Regular course of study of third year first semester.
4	Third year second semester to Fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 58 credits out of 96 credits i.e., 60% credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Fourth year first semester to Fourth year second semester	Regular course of study of fourth year first semester.

6. All the other regulations as applicable to B.Tech. 4-year degree course (Regular) will hold good for B. Tech. (Lateral Entry Scheme).

**MALPRACTICES RULES**  
**DISCIPLINARY ACTION FOR IMPROPER CONDUCT IN EXAMINATIONS**

S.No.	Nature of Malpractices / Improper conduct	Punishment
	<b>If the candidate / student:</b>	
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 University.
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 University 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 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 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.	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 are also 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 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.	If the student belongs to 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.
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.
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.	

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