

**B. TECH. REGULATIONS – 2013 (Full Time)**

**(For students admitted from the academic year 2013-14 to 2014-15)**

**Amendment Approved in 35<sup>th</sup> Academic council for approval to be effective retrospectively from the even semester of academic year 2016-**

**17**

<b>R 12.3 a of 2013 regulations</b>	In temporary suppression of R 12.3. a, the following shall be adopted for awarding internal assessment marks for theory courses:  Cycle test -I - 15 marks Cycle test -II – 25 marks Surprise test - 5 marks Attendance - 5 marks ( Max) <b>Total – 50 mark</b> Cycle test -I will be conducted for 2 hour duration with the portion of first two units. Cycle test -II will be conducted for 3 hour duration with the portion of last three units. For practical courses	To check the efficacy of only two cycle tests in place of three cycle tests. <b>(to be effective retrospectively from even semester of academic year 2016-17)</b>
<b>R 12.3 b (iii) and c (i) of 2013 regulations</b>	In temporary suppression of R 12.3. b (iii) and c(i) , the following shall be adopted for awarding internal assessment marks for practical courses: Experiment - 50 marks Record - 5 marks Viva - 5 marks <b>Total - 60 marks</b>	To bring uniformity to the award of internal assessment marks for practical courses and check the same. <b>(to be effective retrospectively from even semester of academic year 2016-17)</b>

**Amendments approved in the 26<sup>th</sup> Academic Council Meeting held on 25 July 2014**

**B.Tech. Regulations (2013) Full time**

**Add the following para at the end of R7.1**

When the assessment process of courses like NCC/NSS/NSO/YOGA/ Industrial training/personality development courses etc. do not follow that prescribed by R12.3 but which has been specifically approved by Director (Engg&Tech) as per R12.5, then, if such courses are also offered as compensatory courses , the assessment process to be adopted for such compensatory courses shall be same as adopted for the corresponding regular courses.

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**B. TECH. REGULATIONS – 2013 (Full Time)**  
**(For students admitted from the academic year 2013-14)**

**Faculty of Engineering & Technology**  
**SRM University**  
**SRM Nagar, Kattankulathur**  
**Chennai, India – 603 203**

## B. TECH. REGULATIONS- 2013

(For students admitted from the academic year 2013-14)

### REGULATIONS

#### R.1.0 Admission

- R.1.1 The number of seats in each branch of the B. Tech programme for which admission is to be made in the Faculty of Engineering and Technology will be decided by the Board of Management of SRM University.
- R.1.2 Admission to the B.Tech programme in any year will be based on the results of SRM Entrance Examination (SRMEE) in that year and the percentage of marks obtained in specified subjects of the qualifying examinations (R.1.5).
- R.1.3 The eligibility criteria, in accordance with R.1.5, for appearing in the Entrance Examination (SRM EE) , as well as the criteria to be satisfied to apply for direct admission in any year will be decided by the Admission Committee and forwarded to the applicants along with the relevant application forms.
- R.1.4 The Admission Committee will decide on the procedure for conducting the entrance examination. Subject to a minimum performance criteria in the entrance examination, as decided by the Admission Committee from year to year, and the percentage of marks obtained in specified subjects of the qualifying examinations (R.1.5) the Admission Committee will prepare a merit list. According to the merit list the Committee will offer admissions through Counseling, taking into account the choice of branches indicated by the candidates and the available seats.
- R.1.5 The minimum qualification for admission to B. Tech degree programmes (Regular) shall be:  
A pass in the 10+2 (Higher Secondary) examination or any other equivalent examination of any authority, recognized by this University, with a minimum aggregate of marks in Mathematics / Biology, Physics and Chemistry to be specified by the Admission Committee.
- R.1.6 Under lateral entry system, following categories of candidates are eligible for admission to the 3rd semester of the B.Tech programmes
- (i) those who have acquired a Diploma in Engineering/Technology through a minimum of three years of institutional study, after the 10<sup>th</sup> (SSLC) examination, recognized by this University,

- (ii) those who have acquired a Diploma in Engineering/Technology through a minimum of 2 years of institutional study, after the 10+2 (Higher Secondary) examination, recognized by this University
- (iii) those who have acquired a Bachelor's degree in Mathematics/Physics/Chemistry or any other equivalent degree through a minimum of 3 years of institutional study, after the 10+2 (Higher Secondary) examination, recognized by this University.

Lateral entry students, on admission, shall have to do bridge courses prescribed by the University which they have to pass and the credits earned on such courses shall be considered in the GPA / CGPA computation (R. 19.2)

- R.1.7 Notwithstanding the above, the actual admissions will be based on the rules and regulations of the UGC/Competent authorities.
- R.1.8 Candidates have to fulfill the medical standards required for admission as set out by the Admission Committee.
- R.1.9 The selected candidate will be admitted to the B. Tech programme after he/she fulfills all the admission requirements as indicated in the letter of admission after making the payment of the prescribed fees.
- R.1.10 In the matter of admission to the B.Tech programme the decision of the Admission Committee is final.
- R.1.11 If, at any time after admission, it is found that a candidate has not fulfilled all the requirements stipulated in the offer of admission, the Director (Engg/Tech) may revoke the admission of the candidate and report the matter to the Vice Chancellor.

#### R.2.0 Structure of the B. Tech Programme

- R.2.1 The complete programme of study will consist of 4 categories of courses distributed over eight semesters ( 6 semesters for lateral entry students) with two semesters per year as listed below:

##### 1) General (G)

General Courses comprising of Languages/Communication Skills, Humanities and Social Sciences, Economics and Principles of Management, and NSS/NCC/NSO/ YOGA

##### 2) Basic Sciences (B)

Basic Science Courses comprising Computer Programming with Numerical Analysis, Mathematics, Physics, and Chemistry

### **3) Engineering Sciences and Technical Arts (E)**

Engineering Sciences and Technical Arts Courses comprising Engineering Graphics, Workshop Practice, Basic Engineering, etc.

### **4) Professional Courses (P)**

Professional Courses corresponding to the Branches of Study, which will include Core Courses, electives, and project work.

R.2.2 Every branch of the B. Tech programme will have a curriculum and course contents (syllabi) proposed by the respective Boards of Studies and approved by the Academic Council.

R.2.3 Credits are assigned to the courses based on the following general pattern:

One credit for each lecture (L) period;

One credit for two or less tutorial (T) periods;

One credit for two or less laboratory/practical/project/seminar (P) periods

Theory based courses are that with 'L' & 'T' or 'L' alone or 'T' alone.

Courses with theory and practical components are that with 'L', 'T' & 'P' or 'T' & 'P' or 'L' & 'P'.

Courses with only practical component are that with 'P' alone.

R.2.4 The curriculum of any branch of the B. Tech programme is designed to have 180 credits for the award of the B. Tech degree. For lateral entry students the number of credits to be earned for the award of the B.Tech. degree will be in accordance with the curriculum of program concerned.

R.2.5 The medium of instruction, examination and project reports will be in English.

### **R.3.0 Faculty Adviser / Student Counselor**

R.3.1 To help the students in planning their courses of study and for getting general advice on the academic programme, the concerned School/Department will assign for every class a faculty member who will be called the Faculty Adviser.

R.3.2 In order to motivate the students personally and provide counseling on academic and non academic matters, a faculty member called Student Counselor shall be assigned for every 15-20 students.

### **R.4.0 Class Committee**

R.4.1 Every class (comprising of sections) of the B.Tech programme will have a Class Committee consisting of Faculty and Students. The class committees for the School/Department programmes of each semester will be constituted by the Head of the concerned School/Department.

R.4.2 The constitution of the Class Committee for the School/Department programmes of each semester will include the following members:

a) all teachers of the Courses

b) four students from the class to be chosen by the students of the class.

c) one senior faculty, preferably a professor of the concerned School/Department, preferably not associated with teaching of the class, to be nominated by the concerned Head of the School/Department, to act as the Chairperson of the Class Committee.

d) Faculty Adviser(s) of the respective class.

R.4.3 The basic responsibilities of the Class Committee:

a. To review periodically the progress of the classes,

b. To discuss problems concerning curriculum and syllabus, the conduct of the classes as well as non academic issues concerning the students.

c. The method of assessment in the courses will be decided by the teachers in consultation with class committees and will be announced to the students at the beginning of the semester.

d. The class committees shall meet at least twice in a semester, once at the beginning of the semester and once after the second cycle test.

e. The class committee chairman with the assistance of faculty advisors, shall prepare the minutes of the meeting and the same, duly signed by the HOD, shall be sent to the Director (Engg&Tech) within 7 days of conduct of the meeting. The minutes shall be also circulated to the class committee members and displayed in the notice board.

### **R.5.0 Registration / enrollment for courses**

a. The process of signing up for courses is called registering. Students are enrolled after they pay the prescribed fees. For a student to attend classes he has to complete both registration and enrollment.

All students shall formally register for the courses every semester to undergo course work.

R.5.1 Registration of any course will be controlled by the concerned Head of the department.

Except for the first semester, (and III semester in the case of lateral entry students) the registration for a semester will be done during a specified week before the end-semester examination of the previous semester.

For the first semester (and III semester in the case of lateral entry students) registration shall be completed within a week after the commencement of classes.

Late registration will be permitted with a fine, decided from time to time, up to two weeks from the last date specified for registration.

R.5.2 The registration sheet contains the course number, course name, number of credits and category for each course taken in that semester. The student will make the choice of courses (in case of elective courses) in consultation with his/her Faculty Adviser.

R.5.3 A student will be eligible for enrolment only if he/she satisfies the enrolment requirement specified in R.6.0 and will be permitted to enroll only if he/she has cleared all dues to the University, Hostel, Library, NCC etc. up to the end of the previous semester, provided he/she is not debarred for enrolment as a result of any disciplinary action of the University.

#### R.6.0 **Enrollment Requirement**

R.6.1 The enrolment requirement is as stipulated below:

a. For a student to become eligible for enrolment to a higher semester he / she shall have appeared in the end semester examinations of at least 3 courses in previous semester.

b. Further, to become eligible for enrolment in II, III and IV year a student shall have earned at least 40% of the credits prescribed in I, II and III year cumulatively.

Operation of R. 6.1 is explained in the following table:

#### **Regular students**

To enroll for	Minimum no. of credits to be earned	Appearance in the previous end semester examination
II semester	-	At least 3 courses in I semester
III semester	40% of the credits prescribed in I and II semesters.	At least 3 courses in II semester
IV semester	-	At least 3 course in III semester
V semester	40% of the credits prescribed in I to IV semesters.	At least 3 courses in IV semester
VI semester	-	At least 3 courses in V semester
VII semester	40% of the credits prescribed in I to VI semesters.	At least 3 courses in VI semester
VIII semester	-	At least 3 courses in VII semester

#### **Lateral Entry students**

To enroll for	Minimum no. of credits to be earned	Appearance in the previous end semester examination
IV semester	-	At least 3 courses in III semester
V semester	40% of the credits prescribed in III and IV semesters.	At least 3 courses in IV semester
VI semester	-	At least 3 courses in V semester
VII semester	40% of the credits prescribed in III to VI semesters.	At least 3 courses in VI semester
VIII semester	-	At least 3 courses in VII semester

In case the student does not meet the above requirements he/she shall discontinue the studies temporarily, earn the requisite credits and re-join the programme in the semester to which he / she was disallowed to join due to not meeting the enrolment requirements specified in R. 6.0.

Further at the time of readmission no disciplinary action shall be in force against the student and the student has to pay the prescribed fee at the time of readmission.

### **R.7.0 Compensatory Courses**

Compensatory courses are meant for students who, due to some unavoidable reasons, have not earned 75% attendance during the normal course of study and are detained from appearing in the end-semester examination. These courses offer an opportunity for the students to have necessary teaching input which they may have missed out.

- R.7.1 Compensatory courses may be announced by a School/Department, by the Deans/HODs, with the approval of the Director (Engg&Tech). The course will be conducted during the regular academic session either during the weekends or in the evenings after the regular classes as decided by the Director (Engg&Tech) and the number of hours that will be conducted will be 75% of the hours specified in the curriculum for a course. Maximum two courses will be permitted to a student during the semester and the student has to have at least 75% attendance in these courses.

The evaluation process for compensatory courses consists of only end semester examinations and no internal assessment process. Student shall have to score the passing minimum in the end semester examination only and the marks scored in which will be given full weightage.

Courses will be offered by the departments only to students detained for lack of attendance in those courses (Grade W, R.18.1). No student should register for more than two compensatory courses offered during a semester and totally not more than 8 courses in the normal duration of study.

- R.7.2 Compensatory courses will be announced after the publication of results of end semester examinations of odd/even semester and the conduct of these courses will not go beyond the last working day of the semester. A student will have to register within the time stipulated in the announcement by paying the prescribed fees.
- R.7.3 No student who has got 'W' grade, (that is, the student who has been detained for want of attendance in a particular course) can appear for end semester examinations for that course without undergoing the compensatory classes for that course.
- R.7.4 Withdrawal from Compensatory courses is not permitted.
- R.7.5 Student who has obtained U grade in a course shall not register for compensatory course for that course.

### **R.8.0 Maximum Duration of the Programme**

- R.8.1 Each semester shall normally consist of 90 working days or 450 hours. A student is ordinarily expected to complete the B.Tech programme in eight semesters for regular programme and in 6 semesters under lateral entry scheme. However a student may complete the programme at a slower pace by taking more time but in any case not more than 14 semesters under regular programme and 12 semesters for the lateral entry programme excluding semesters withdrawn on medical grounds etc. as per R.9.1.

### **R.9.0 Temporary withdrawal from the programme**

- R.9.1 A student may be permitted by the Director (Engg&Tech) to withdraw from the programme for a semester or longer for reasons of ill health or other valid reasons. Normally a student will be permitted to discontinue from the programme only for a maximum continuous period of two semesters.

### **R.10.0 Discipline**

- R.10.1 Every student is required to maintain discipline and decorous behavior both inside and outside the University campus and not to indulge in any activity that will tend to bring down the prestige of the University.
- R.10.2 Any act of indiscipline of a student is first to be considered by the Discipline and Welfare Committee of the Department/School for necessary action. If the issue demands more serious consideration, the act of indiscipline will be reported to the Director (Engg&Tech), and he will refer it to the Discipline and Welfare Committee of the University, constituted by the Vice Chancellor.
- The Committee will enquire into the charges and recommend suitable action if the charges are substantiated. The Director (E&T) will take appropriate action on the recommendation of the Discipline and Welfare Committee.
- R.10.3 Director (Engg&Tech) may suspend a student pending inquiry depending upon the prima facie evidence.
- R.10.4 Appeal: The student may appeal to the Vice Chancellor whose decision will be final and binding.

### R.11.0 Attendance

R. 11.1 **Attendance is the physical presence of the student in the class.** It is a well-observed fact that the students who score good grades are those who attend classes regularly. Therefore, the students must strive to attend all the classes without fail.

R.11.2 Every teaching staff member handling a class will take attendance till the last instruction day in the semester. The percentage of attendance, calculated up to this point, will be indicated by a code number/letter as follows:

Attendance rounded to	Code
95% and above	H
85 to 94%	9
75 to 84%	8
Below 75%	L

R.11.3 A student must maintain an attendance record of at least 75% in individual courses. Without the minimum attendance of 75%, in any course, students become ineligible to write the end semester examination in that course. His / Her registration for that course will be treated as cancelled, and he/she shall be awarded 'W' grade (W stands for registration cancelled for want of minimum attendance) in that course. This grade shall appear in the grade card until the course is successfully completed.

The student should register for and repeat the course when it is offered next.

R.11.4 The students must strive to attend all the classes without fail. However, the minimum attendance requirement of 75% allows a student the facility to use the balance 25% to account for illnesses, permitted assignments such as job interviews, inter university sports meets, inter-collegiate/inter-university competitions, accidents, unforeseen emergencies etc. An attendance of 75% in a course (except in cases governed by R.11.6) is considered to be the minimum required for a student to get just enough input on the course syllabus

through class room contact hours to make him / her eligible to appear in the end semester examination for that course.

R.11.5 The teacher shall announce the particulars of all students who have attendance less than 75% in that course in the class. Copies of the same should also be sent to the Director (Engg&Tech), and Heads of Schools/ Departments concerned. **The students who have less than 75% attendance will not be permitted to appear in end semester examination.**

R.11.6 **Condonation of Attendance:** In rare and genuine cases, a committee consisting of Pro-Vice Chancellor, Director and Head of the Department of the concerned department will examine the case and recommend suitably to the Vice Chancellor, who may give condonation of attendance in deserving cases but in any case not more than 10%.

### R.12.0 Assessment Procedure

R.12.1 The complete academic performance of a student is evaluated internally by the concerned teachers/departments except in the case of project work where an external examiner shall be nominated for the viva voce.

R.12.2 The student's performance in each course, in general, is evaluated based on in-semester assessment (internal marks) and end semester examination.

R.12.3 The assessment method is further detailed below:

#### (a) Course without any practical component- Theory courses

Assessment tool	Weightage	Remarks	
Cycle test I	10%	Duration – 2 periods	
Cycle test II	10%		
Surprise Test	5%		
Model Examination	20%	Duration – 3/2 hours	
Attendance	5%	Attendance Percentage Range	Marks to be awarded
		0-75	0
		76-80	20
		81-85	40
		86-90	60
		91-95	80
96-100	100		



Assessment tool	Weightage	Remarks
Total in-semester assessment	50%	
End semester Examination	50%	Duration – 3 hours

**(b) Course with theory and practical component**

- (i) The theory and practical portions shall be assessed separately for 100 marks each and consolidated by assigning a weightage of 50% for theory component and 50% for practical component. Grading shall be done for this consolidated mark.
- (ii) Assessment method for theory component is same as detailed in R 12.3 (a).
- (iii) Assessment for practical component is as given below:

Assessment tool	Weightage	Remarks
Carrying out laboratory work, attendance, and submission of record	60%	Assessment components: 1. Every experiment will carry marks for observation, completion, results and prompt submission of record for each experiment. 2. Marks for model examination (if any) or for tests or for quizzes etc.
End semester examination	40%	The nature of the end semester examination shall be informed to the students at the commencement of the course. The end semester examination will be conducted only after the last working day of the semester. The student has to appear for the end semester examination and I grade will be awarded for non appearance.

**(c) Course with only practical component**

**(i) Laboratory courses**

Assessment tool	Weightage	Remarks
Carrying out laboratory work, attendance, and submission of record	60%	Assessment components: 1. Every experiment will carry marks for observation, completion, results and prompt submission of record . 2. Marks for model examination (if any) or for tests or for quizzes etc.
End semester examination	40%	The nature of the end semester examination shall be informed to the students at the commencement of the course. The end semester examination will be conducted only after the last working day of the semester. The student has to appear for the end semester examination and I grade will be awarded for non appearance.

**(ii) Final semester project work**

B. Tech projects as far as possible should be socially relevant and product oriented ones. B.Tech projects can be carried out by individual students or by a group of students with a maximum of three students in a group.

The assessment method for the project work consists of in-semester and end semester evaluations as detailed below:

Assessment	Weightage
In - Semester Evaluation	
Review I	10%
Review II	15%
Review III	20%
End Semester Evaluation	
Project report	25%
Viva voce	30%

R12.4 The assessment process for courses like NCC/NSS/NSO/YOGA, Industrial Training and Personality Development courses which form part of the curriculum, shall be decided by the Course Coordinator at the commencement of the semester and communicated to all concerned(R.4.3).

R 12.5 Whenever there is a deviation from procedures stated under 12.3, as warranted by the unique nature of the course, the same will be specified by the concerned Course Coordinator and approved by the Director (Engg&Tech).

**R.13.0 End Semester Examination**

R.13.1 The examinations at the end of a particular semester will be conducted for the courses of all odd and even semesters.

R. 13.2 A student should have appeared for the end-semester examination of the prescribed course of study to become eligible for the award of the grade in that course. *I* grade will be awarded for a course for non-appearance in end semester examination in that course.

**R.13.3 Reappearance in end Semester Examination**

Students who have secured U, W or I grade in a particular course can reappear when the end semester examination for that course is again conducted provided they satisfy other eligibility conditions such as lack of attendance overcome by attending Compensatory courses (R.7.0) and minimum credit / appearance in end semester examinations requirements (R. 6.0), Temporary withdrawal from the programme (R.9.0) and Discipline (R.10.0). Students who have secured U, W or I grade in of courses with practical component shall appear in the end semester examinations of both the theory and practical components.

**R.14.0 Course Wise Grading of Students**

**R.14.1 Letter Grades and Grade Points (GP)**

Based on the semester performance, each student is awarded a final letter grade at the end of the semester in each Course. The letter grades and the corresponding grade points are as follows:

S	10 grade points
A	9 grade points
B	8 grade points

C	7 grade points
D	5 grade points
U	0 grade point ( Fail grade)
W	0 grade point (Failure due to insufficient attendance in the course. The student has to undergo compensatory course to become eligible for appearing in the end semester examination)
I	0 grade point [Incomplete due to absence in end semester examination; subsequently to be changed into pass (D to S) or U grade after appearing in the end-semester examination.]

R.14.2 A student is considered to have completed a Course successfully or achieved a pass grade and earned the credits if he / she secures a letter grade other than U or W or I in that Course. **A letter grade U or W or I in any Course implies a failure in that Course.**

R.14.3 A Course successfully completed cannot be repeated.

R.14.4 If a student gets a fail grade (U/W/I) in a course with both theory and practical components, then he/she has to reappear in the end semester examinations of both.

R.14.5 If a student obtains U grade in a course in the first three attempts, from fourth attempt onwards, full weightage (100%) shall be assigned to marks scored in the end semester examinations and the internal assessment marks they have scored during the regular course of study will be ignored. The first attempt is that which corresponds to the first registration for the course. If a student gets U or I or W grade in an attempt that is treated as an attempt.

**R.15.0 Method of Awarding Letter Grades.**

R.15.1 The internal marks awarded to the students are first normalized and combined with the normalized marks of end semester examination. Subsequently letter grades are awarded for the normalized marks as indicated below:

Normalized marks/criteria	Letter Grades
90-100	S
80-89	A
70-79	B
60-69	C
50-59	D
<50	U (Fail grade)

Normalized marks/criteria	Letter Grades
Failure due to insufficient attendance in the course	W (Fail grade)
Incomplete due to absence in end semester examination	I (Fail grade)

The detailed methodology of normalization of internal marks as well as marks in the end-semester examinations shall be formulated by the Controller of Examinations.

- R.15.2 To pass in a course with earnable credits a student has to score a minimum of 50% of the total normalized marks secured in both the internal and end semester examination.

Grades W and I will be as per R. 14.1

#### R.16.0 Declaration of Results

- R.16.1 Normalized marks are referred to the Result Passing Board for the finalization of results. Controller of Examinations assigns letter grades and announces the results.

- R.16.2 ***The W/I grade once awarded stays in the record of the student and is deleted when he/she completes the course successfully later*** The grade acquired by the student will be indicated in the grade card of the appropriate semester with an indication of the month and the year of passing of that course.

- R.16.3 ***'U' grade obtained by a student will be deleted in the grade card once that course is successfully completed.*** The pass grade acquired by the student will be indicated in the grade card of the appropriate semester with an indication of the month and the year of passing. The CGPA will be accordingly revised.

#### R.17.0 Re-view of answer scripts

In case any student feels aggrieved on the final outcome of the assessment in any course, the student shall apply to the Controller of Examinations, along with the prescribed fee, for the review of end semester examination answer script, within the stipulated time after the announcement of the results of the examinations. The Controller of Examinations shall facilitate the review of the answer script jointly to be carried out by the student and the faculty detailed for this purpose. If any discrepancy is noticed during review the same shall be rectified and the originally awarded grade accordingly amended.

#### R.18.0 Course Repetition

- R.18.1 A student securing U grade in a core course has to compulsorily get a pass grade for the award of degree and a student securing a W grade in a core course shall undergo compensatory course, appear in the end semester examination and get a pass grade.

A student securing U or W or I grade in an elective course has the following options:

- (i) He/she may reappear and pass the course in case of U or I grade or register for compensatory course and pass in case of W grade.  
OR
- (ii) He/she may opt for another elective in place of the elective in which he/she did not get a pass grade and achieve a pass in it.

An elective course with grades S to D cannot be withdrawn.

#### R.19.0 Grade Card

- R.19.1 The grade card issued by the Controller of Examinations at the end of the semester to each student will contain the following:

- a. The credits for each course registered for that semester,
- b. The letter grade obtained in each course
- c. The attendance code in each course
- d. The total number of credits earned by the student up to the end of that semester in each of the course categories
- e. The Cumulative Grade Point Average (CGPA) of all the courses taken from the I semester onwards for regular students and from III semester onwards for lateral entry students. For lateral entry students the grades awarded in the bridge courses shall also be taken into consideration.

- R.19.2 The GPA will be calculated according to the formula

$$GPA = \frac{\sum_{1}^{n} C_i \times (GP)_i}{\sum_{1}^{n} C_i}$$

Where  $C_i$  = credit for the  $i^{\text{th}}$  course,  $(GP)_i$  = the grade point obtained for the  $i^{\text{th}}$  course (refer R.19.1),  $n$  = total number of courses and the

sum is over all the courses taken in that semester, including those in which the student has secured U and W grades.

For the cumulative grade point average (CGPA) following formula is used:

$$CGPA = \frac{\sum_1^r S_i \times (GPA)_i}{\sum_1^r S_i}$$

where  $S_i$  = Sum of credits in  $i^{\text{th}}$  semester,  $(GPA)_i$  = Grade Point Average earned in  $i^{\text{th}}$  semester and  $r$  = number of semesters and the sum is over all the semesters under consideration.

R.19.3 Class/Distinction will be awarded to the students after they successfully complete the B.Tech programme as per the norms stipulated in the following table:

#### Regular students

Category	CGPA (From I-VIII semesters)	Class / Distinction
Students who successfully complete the B.Tech programme within the time duration of 8 semesters (R.8.0)	$\geq 5$ & $< 5.5$	Pass
	$\geq 5.5$ & $< 6$	Second Class
	$\geq 6$ & $< 8.5$	First Class
	$\geq 8.5$ (without U or W or I or temporary withdrawal-R.9.0 in any Semester)	First Class with Distinction
	$\geq 8.5$ (with U or W or I in any Semester but obtained pass grade (S to D) subsequently)	First Class
Students who cannot complete the B.Tech program in 8 semesters but complete it successfully within the time duration of 9 semesters. (R.8.0)	$\geq 5$ & $< 5.5$	Pass
	$\geq 5.5$ & $< 6$	Second Class
	$\geq 6$	First Class
Students who cannot complete the B.Tech program in 9 semesters but complete it successfully within the time duration of 14 semesters(R.8.0)	$\geq 5$ & $< 5.5$	Pass
	$\geq 5.5$	Second Class

#### Lateral Entry students

Category	CGPA (From III-VIII semesters including bridge courses)	Class / Distinction
Students who successfully complete the B.Tech programme within the time duration of 6 semesters (R.8.0)	$\geq 5$ & $< 5.5$	Pass
	$\geq 5.5$ & $< 6$	Second Class
	$\geq 6$ & $< 8.5$	First Class
	$\geq 8.5$ (without U or W or I or temporary withdrawal-R.9.0 in any Semester)	First Class with Distinction
Students who cannot complete the B.Tech program in 6 semesters but complete it successfully within the time duration of 7 semesters. (R.8.0)	$\geq 5$ & $< 5.5$	Pass
	$\geq 5.5$ & $< 6$	Second Class
Students who cannot complete the B.Tech program in 7 semesters but complete it successfully within the time duration of 12 semesters(R.8.0)	$\geq 6$	First Class
	$\geq 5$ & $< 5.5$	Pass
	$\geq 5.5$	Second Class

#### R.20.0 Eligibility for Award of the B. Tech Degree

R.20.1 A student shall be declared to be eligible for the award of the B. Tech degree if he/she has

- Registered and successfully completed all the courses and projects as per the curriculum.
- Successfully acquired the required credits as specified in the curriculum corresponding to the branch of his/her study within the stipulated time duration.
- No disciplinary action pending against him/her

#### R.21.0 Change of Regulations

R.21.1 Any regulation can be modified by the Academic Council of SRM University.