



# St. Martin's Engineering College

An Autonomous Institute  
Dhulapally, Secunderabad-500 100  
NBA & NAAC A+ Accredited



[www.smec.ac.in](http://www.smec.ac.in)

## ACADEMIC REGULATIONS FOR B.TECH. REGULAR STUDENTS WITH EFFECT FROM ACADEMIC YEAR 2020-21 (R-20)

### 1.0 Introduction

St. Martin's Engineering College (SMEC) was established in the year 2002 and is presently offering seven UG B. Tech programs with a total intake of 1080 and one PG program– MBA with an intake of 120. The college is permanently affiliated to JNTUH, Hyderabad, **UGC Autonomous Institution, NBA and NAAC A+ Accredited Institution**. It aims at achieving academic excellence by implementing creative and innovative methods in teaching-learning and evaluation processes. Based on the directions of the University Grants Commission (UGC), New Delhi, All India Council for Technical Education (AICTE), New Delhi and Jawaharlal Nehru Technological University Hyderabad (JNTUH), SMEC is introducing the Choice Based Credit System (CBCS) in both under-graduate and post-graduate programmes offered from the academic year 2020-21.

### 2.0 Title Application and Short Commencement

Academic programs of the College are governed by the rules and regulations as approved by the Academic Council, which is the highest academic body of the College.

- i. These regulations shall be called as the “SMEC R20 Academic Regulations, 2020”. In short, it shall be referred as “SMEC R20” academic regulations and will be effective for the batches of students admitted into the four year undergraduate B. Tech programs and the two year Post Graduate MBA program offered by the college from the academic year 2020-21.
- ii. The regulations hereunder are subject to amendments as may be made by the Academic Council of the college from time to time, keeping the recommendations of the Board of Studies in view. Any or all such amendments will be effective from such date and to such batches of candidates including those already undergoing the program, as may be decided by the Academic Council.

### 3.0 Definitions

- “**Commission**” means University Grants Commission (UGC);
- “**Council**” means All India Council for Technical Education (AICTE);
- “**University**” means Jawaharlal Nehru Technological University Hyderabad (JNTUH);
- “**College**” means St. Martin’s Engineering College, Secunderabad;
- An “**Academic Program**” means any combination of courses and/or requirements leading to award of a degree;
- “**Course**” means a subject either theory or practical identified by its course title and code number and which is normally studied in a semester;
- “**Degree**” means an academic degree conferred by the university upon those who complete the undergraduate curriculum;
- “**CBCS**” means Choice Based Credit System;
- “**MOOC**” means Massive Open Online Course;
- “**Regular Students**” means students enrolled into the four year programme in the first year;
- “**Lateral Entry Students**” means students enrolled into the four year programme in the second year;

#### **4.0 Programs Offered**

Under-Graduate Degree Programs are offered in Engineering & Technology.

1. Civil Engineering
2. Computer Science and Engineering
3. Electronics and Communication Engineering
4. Electrical and Electronics Engineering
5. Information Technology
6. Mechanical Engineering
7. Computer Science ( AI & ML)

#### **5.0 Duration of the Program**

The B.Tech Programme is in Semester pattern, with **Eight** Semesters consisting of Four academic years, each academic year consists of two Semesters (Odd and Even Semesters). Each Semester shall be of 22 weeks duration (inclusive of Examinations), with a minimum of 90 instructional days per Semester.

However, a student is permitted to complete the course work of B. Tech program in the stipulated time frame of **eight** years from the date of joining failing which student shall forfeit seat in B.Tech course.

## **6.0 Medium of Instructions & Minimum Instruction Days**

Medium of instruction is English and each semester consists of a minimum of ninety instruction days.

## **7.0 Eligibility Criteria for Admission**

The eligibility criteria for admission into first year of B. Tech Degree programs shall be as mentioned below:

- [1] The candidate shall be an Indian national.
- [2] The candidate should have passed the qualifying examination Intermediate or equivalent with Mathematics, Physics and Chemistry as optional subjects or any equivalent examination recognized by JNTUH, Hyderabad on or before the date of admission.
- [3] Seats in each program are classified into Category-A (70% of intake) and Category-B (30% of intake).
  - a) Category - A Seat: These seats shall be filled by the Convener, TS EAMCET admissions based on the ranks in EAMCET examination.
  - b) Category - B Seats: These seats shall be filled by the College as per the guidelines of Telangana State Council of Higher Education.
  - c) Lateral Entry Seats: Additional seats of 10% of the sanctioned intake in each discipline shall be filled up in the third semester directly by candidates with Diploma Qualification based on the rank secured in Engineering Common Entrance Test (ECET (FDH)) in accordance with the instructions received from the Convener, ECET and Government of Telangana.

## **8.0 B. Tech. Programme Structure**

The course structure of B. Tech programs has been designed as per the guidelines of AICTE & UGC, New Delhi by providing more choices to the students in the form of Open Electives and Professional Electives with true spirit of implementing the Choice Based Credit System (CBCS).

### **8.1 Program Credits**

- Each discipline of the B. Tech program is designed to have a total of 160 credits and the student shall have to complete the four year course work and earn all the 160 credits for the award of B. Tech Degree.

- Students joining the B. Tech program into the II year 1st semester directly through Lateral Entry (LE) Scheme shall have to complete the three year course work and earn 123 credits for the award of B. Tech degree.
- Student shall register for a course only once in any semester in the entire program. He shall not register that course as open elective or Professional elective further.

## 8.2 Credit Structure

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

- One credit for one hour / week / semester for theory / Lecture (L) courses or Tutorials
- One credit for two hours / week / semester for laboratory / practical (P) courses.

Courses like Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization are mandatory courses. These courses will not carry any credits.

## 8.3 Subject Course Classification

All subjects/ courses offered for the under graduate programme in E&T (B. Tech. degree programmes) are broadly classified as follows. The College follows all the guidelines issued by AICTE/UGC.

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1	BSC, ESC and HSC	BSC – Basic Science Courses	Includes Mathematics, Physics and Chemistry subjects
2		ESC - Engineering Science Courses	Includes Fundamental engineering subjects
3		HSC – Humanities and Social science Courses	Includes subjects related to Humanities, social sciences and Management

4	PCC	PCC – Professional Core Courses	Includes Core subjects related to the Parent discipline/ department/ branch of Engineering.
5	PEC and OEC	PEC – Professional Elective Courses	Includes elective subjects related to the Parent discipline/ department/ branch of Engineering.
6		OEC –Open Elective Courses	Elective subjects which include interdisciplinary subjects or subjects in an area outside the parent discipline/ department/ branch of Engineering.
7	PWC	Project Work	UG major project/Internship
8		Industrial training/ Mini- project	Industrial training/ Summer Internship/ Industrial Oriented Mini-project/ Mini-project/Micro-project.
9		Seminar	Seminar/ Colloquium based on Core contents related to Parent discipline/ department/ branch of Engineering.
10	MC	MC – Mandatory Courses-	Mandatory Courses (non-credit)

## 9.0 Course Registration

- 9.1 A ‘faculty advisor or counselor’ shall be assigned to a group of 20 students, who will advise the students about the under graduate programme, its course structure and curriculum, choice/option for subjects/ courses, based on their competence, progress, pre-requisites and interest.
- 9.2 The academic section of the college invites ‘registration forms’ from students before the beginning of the semester through ‘on-line registration’, ensuring ‘date and time stamping’. The on-line registration requests for any ‘current semester’ shall be completed before the commencement of SEEs (Semester End Examinations) of the ‘preceding semester’.
- 9.3 A student can apply for *on-line registration*, only after obtaining the ‘written

approval' from faculty advisor/counselor, 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/ counselor and the student.

- 9.4 A student may be permitted to register for all the subjects/ courses in a semester as specified in the course structure with maximum additional subject(s)/course(s) limited to 4 credits, based on CGPA of 7.5, and completion of the 'pre- requisites' as indicated for various subjects/ courses, in the department course structure and syllabus contents.
- 9.5 Choice for 'additional subjects/ courses' must be clearly indicated, which needs the specific approval and signature of the faculty advisor/ counselor.
- 9.6 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.
- 9.7 Subject/ course options exercised through on-line registration are final and cannot be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/ course that has already been listed for registration by the Head of the 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 the department, with due notification and time-framed schedule, within the first week after the commencement of class-work for that semester.
- 9.8 Dropping of subjects/ courses may be permitted, only after obtaining prior approval from the faculty advisor/ counselor 'within a period of 15 days' from the beginning of the current semester.
- 9.9 **Open Electives:** The students have to choose three open electives (OE-I, II & III) from the list of open electives given. However, the student cannot opt for an open elective subject offered by his own (parent) department, if it is already listed under any category of the subjects offered by parent department in any semester.
- 9.10 **Professional electives:** The students have to choose six professional electives (PE-I to VI) from the list of professional electives provides.
- 10.0 Subjects/ Courses to be offered**
- 10.1 A typical section (or class) strength for each semester shall be 60.

- 10.2 A subject/ course may be offered to the students, only if a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60 + 1/3 of the section strength).
- 10.3 More than one faculty member may offer the same subject (lab/ practical may be included with the corresponding theory subject in the same semester) in any semester. However, selection of 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).
- 10.4 If more entries for registration of a subject come into picture, then the Head of the Department concerned shall decide, whether or not to offer such a subject/ course for two (or multiple) sections.
- 10.5 In case of options made by students of other departments/ branches/ disciplines (not considering open electives), first priority shall be given to the student of the 'parent department'.

#### **11.0 Attendance Requirements**

- 11.1 A student shall be eligible to appear for the semester end examinations, if the student acquires a minimum of 75% of attendance in aggregate of all the subjects/ courses (excluding attendance in mandatory courses like Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization) for that semester. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject.
- 11.2 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 the supporting evidence.
- 11.3 A stipulated fee shall be payable for condoning of shortage of attendance.
- 11.4 Shortage of attendance below 65% in aggregate shall in **no** case be condoned.
- 11.5 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 the student is detained, by seeking re-admission into that semester as and when offered; 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.

- 11.6 A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class.

## **12.0 Academic Requirements**

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no.11.

- 12.1 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% in the semester end examination, and a minimum of 40% (40 marks out of 100 marks) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'C' grade or above in that subject/ course.
- 12.2 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to Industrial Oriented Mini Project/Summer Internship and seminar, if the student secures not less than 40% marks (i.e. 40 out of 100 allotted marks) in each of them. The student is deemed to have failed, if he (i) does not submit a report on Industrial Oriented Mini Project/Summer Internship, or does not make a presentation of the same before the evaluation committee as per schedule, or (ii) does not present the seminar as required in the IV year II Semester, or (iii) secures less than 40% marks in Industrial Oriented Mini Project/Summer Internship and seminar evaluations.

A student may reappear once for each of the above evaluations, when they are scheduled again; if the student fails in such 'one re-appearance' evaluation also, the student has to reappear for the same in the next subsequent semester, as and when it is scheduled.



### 12.3 Promotion Rules

S. No.	Promotion	Conditions to be Fulfilled
1	First year first semester to first year second semester	Regular course of study of first year first semester.
2	First year second semester to second year first semester	(i) Regular course of study of first year second semester. (ii) Must have secured at least 18 credits out of 37 credits i.e., 50% credits up to first year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3.	Second year first semester to second year second semester	Regular course of study of second year first semester.
4	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 47 credits out of 79 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.
5	Third year first semester to third year second semester	Regular course of study of third year first semester.
6	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 73 credits out of 123 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.
7	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

- 12.4 A student (i) shall register for all courses/subjects covering 160 credits as specified and listed in the course structure, (ii) fulfills all the attendance and academic requirements for 160 credits, (iii) earn all 160 credits by securing SGPA  $\geq 5.0$  (in each semester), and CGPA (at the end of each successive semester)  $\geq 5.0$ , (iv) **passes all the mandatory courses**, to successfully complete the under graduate programme. The performance of the student in these 160 credits shall be taken into account for the calculation of ‘the final CGPA (**at the end of under graduate programme**)’, and shall be indicated in the grade card of IV year II semester.
- 12.5 If a student registers for ‘**extra subjects**’ (in the parent department or other departments/branches of Engineering.) other than those listed subjects totaling to 160 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 160 credits) will not be taken into account while calculating the SGPA and CGPA. For such ‘**extra subjects**’ registered, percentage of marks and 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 11 and 12.1 – 12.4 above.
- 12.6 A student eligible to appear in the semester end examination for any subject/ course, but absent from it or failed (thereby failing to secure ‘**C**’ grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, internal marks (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.
- 12.7 A student detained in a semester due to shortage of attendance may be re-admitted in the same semester in the next academic year for fulfillment of academic requirements. The academic regulations under which a student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which the student has been detained.
- 12.8 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 the student has been readmitted shall be applicable to him.

### **13.0 Examinations and Evaluation – Scheme of Evaluation**

#### **13.1 Theory Courses**

The performance of a student in every theory course shall be evaluated for 100 marks

each, with 30 marks allotted for CIE (Continuous Internal Evaluation) and 70 marks for SEE (Semester End-Examinations).

### **Continuous Internal Evaluation**

For theory subjects, during a semester, there shall be two mid-term examinations.

1. Pattern of the question paper is as follows: PART–A ( 10 Marks ) Objective paper with 20 Multiple choice, fill in the blanks and matching type of questions for the total of 10 Marks. PART-B (15 Marks) Consists of five questions out of which students have to answer three questions and each question carrying five marks. For I Mid-Term examinations the questions would be from first 2 ½ units and for the II Mid-Term examinations from the remaining 2 ½ units.

Five marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the I Mid-Term examination, and the second assignment should be submitted before the conduct of the II Mid-Term examinations

The total marks secured by the student in each mid-term examination are evaluated for 30 marks, and the average of the two mid-term examinations shall be taken as final marks secured by each student in Continuous Internal Evaluation.

If any student is absent from any subject of a mid-term examination, an on-line test will be conducted for him/her by the College.

### **Semester End Examinations**

The semester end examinations (SEE) will be conducted for 70 marks consisting of two parts viz. i) **Part- A** for 20 marks, ii) **Part - B** for 50 marks.

- Part-A is a compulsory question consisting of ten sub-questions two from each unit Part- A and carry 2 marks each.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an “either” “or” choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

## **13.2 Practical Subjects**

For Practical subjects there shall be a continuous internal evaluation during the semester for 30 marks examination and 70 marks for semester end examination.

### **Continuous Internal Evaluation**

Out of the 30 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 15 marks conducted by the laboratory teacher concerned.

The total marks secured by the student in each mid-term examination are evaluated for 30 marks, and the average of the two mid-term examinations shall be the final marks secured by each student in Continuous Internal Evaluation.

### **Semester End Examination**

1. The semester end examination shall be conducted for 70 marks by an external examiner and the laboratory teacher. The external examiner shall be appointed from the other autonomous colleges / Universities which are decided by the Examination branch.

### **13.3 Design / Drawing Subjects**

For the subject having design and/or drawing, (such as engineering graphics, engineering drawing, machine drawing, machine drawing practice and estimation), the distribution shall be 30 marks for continuous internal evaluation and 70 marks for semester end examination.

### **Continuous Internal Evaluation**

Out of the 30 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 15 marks conducted by the laboratory teacher concerned.

The total marks secured by the student in each mid-term examination are evaluated for 30 marks, and the average of the two mid-term examinations shall be the final marks secured by each student in Continuous Internal Evaluation.

### **Semester End Examination**

For subjects like **Engineering Graphics/Engineering Drawing**, the SEE shall consist of five questions with a weightage of 14 marks each. For each question there will be an “either” “or” choice which means that there will be two questions from each unit and the student should answer either of the two questions. There shall be no Part – A, and Part – B system.

For subjects like **Machine Drawing Practice/Machine Drawing**, the SEE shall be conducted for 70 marks consisting of two parts viz. (i) Part – A for 30 marks. 3 out of 4 questions must be answered, (ii) Part – B for 40 marks. Part – B is compulsory.

For the Subject **Estimation, Costing and Project Management**, the SEE paper should consist of Part- A, Part-B and Part C. (i) Part – A – 1 out of 2 questions from Unit – I for 25 Marks, (ii) Part – B – 1 out of 2 questions from Unit – II for 15 Marks, (iii) Part – C – 3 out of 5 questions from Units – III, IV, V for 30 Marks

For subjects **Structural Engineering – I & II (RCC & STEEL)**, the SEE will be conducted for 70 marks consisting of 2 parts viz. (i) Part –A for 10 marks and, (ii) Part – B for 60 marks. Part – A is a compulsory question consisting of five sub-questions. The first five sub-questions are from each unit relating to design theory and codal provisions and carry 2 marks each. Part – B consists of 5 questions (numbered 2 to 6) carrying 12 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there is either or choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

#### **13.4 Industrial Oriented Mini Project/Summer Internship**

There shall be an Industrial Oriented Mini Project/Summer Internship, in collaboration with an industry of their specialization. Students will register for this immediately after III year II semester examinations and pursue it during summer vacation. Industrial Oriented Mini Project/Summer Internship shall be submitted in a report form and presented before the committee in IV year I semester. It shall be evaluated for 100 external marks. The committee shall consist of an external examiner; Head of the Department, supervisor of the Industrial Oriented Mini Project/Summer Internship and a senior faculty member of the department. There shall be no internal marks for Industrial Oriented Mini Project/Summer Internship.

#### **13.5 Seminar Presentation**

There shall be a seminar presentation in IV year I semester. For the seminar, the student shall collect the information on a specialized topic, prepare a technical report, and submit it to the department. It shall be evaluated by the departmental committee consisting of Head of the Department, seminar supervisor and a senior faculty member. The seminar report shall be evaluated for 100 internal marks. There shall be no semester end examination for the seminar.

### **13.6 UG Project Work / Internship**

UG project work / Internship shall be carried out in two stages. SEE for both project stages shall be completed before the commencement of SEE Theory examinations.

#### **Project/Internship Stage–I**

Project/Internship Stage–I shall be evaluated for 100 marks. The departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall evaluate the project work for 70 marks and project supervisor shall evaluate for 30 marks. The student is deemed to have failed, if he (i) does not submit a report on Project Stage - I or does not make a presentation of the same before the evaluation committee as per schedule, or (ii) secures less than 40% marks in the sum total of the CIE and SEE taken together.

A student who has failed may reappear once for the above evaluation, when it is scheduled again; if he fails in such ‘one reappearance’ evaluation also, he has to reappear for the same in the next subsequent semester, as and when it is scheduled.

#### **Project/Internship Stage – II**

Project/Internship Stage – II shall be evaluated for 100 marks. The external examiner shall evaluate the project work for 70 marks and the project supervisor shall evaluate it for 30 marks. The student is deemed to have failed, if he (i) does not submit a report on Project Stage - II, or does not make a presentation of the same before the external examiner as per schedule, or (ii) secures less than 40% marks in the sum total of the CIE and SEE taken together.

For conducting viva-voce of project/Internship stage – II, College selects an external examiner from the list of experts in the relevant branch.

A student who has failed may reappear once for the above evaluation, when it is scheduled again; if student fails in such ‘one reappearance’ evaluation also, he has to reappear for the same in the next subsequent semester, as and when it is scheduled.

The topics for industrial oriented mini project, seminar and Project Work / Internship shall be different from one another.

### **13.7 Scaling**

The laboratory marks and the internal marks awarded by various departments in the college are subject to scrutiny and scaling wherever necessary. In such cases, the internal and laboratory marks awarded by the departments will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled accordingly. The recommendations of the committee are final and binding. The

laboratory records and internal test papers shall be preserved in the college as per the college rules and produced before the committees as and when asked for.

### 13.8 Mandatory Courses

For mandatory courses of Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization lab ( as per JNTUH), Technical seminar and Micro project I&II ( as per SMEC) a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course. These marks should also be uploaded along with the internal marks of other subjects.

No marks or letter grades shall be allotted for mandatory/non-credit courses. Only Pass/Fail shall be indicated in Grade Card.

### 14.0 Grading Procedure

**14.1** Grades will be awarded to indicate the performance of students in each theory subject, laboratory / practicals, seminar, Industry Oriented Mini Project, and project Stage – I & II. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.

**14.2** As a measure of the performance of a student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed.

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A <sup>+</sup> (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B <sup>+</sup> (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	Ab	0

- 14.3 A student who has obtained an ‘F’ grade in any subject shall be deemed to have ‘**failed**’ and is required to reappear as a ‘supplementary student’ in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.
- 14.4 To a student who has not appeared for an examination in any subject, ‘Ab’ grade will be allocated in that subject, and he is deemed to have ‘**failed**’. A student will be required to reappear as a ‘supplementary student’ in the semester end examination, as and when offered later. In this case also, the internal marks in those subjects will remain the same as those obtained earlier.
- 14.5 A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.
- 14.6 A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding ‘credit points’ (CP) are computed by multiplying the grade point with credits for that particular subject/ course

**Credit points (CP) = grade point (GP) x credits .... For a course**

- 14.7 A student passes the subject/ course only when **GP => 5 (‘C’ grade or above)**
- 14.8 The Semester Grade Point Average (SGPA) is calculated by dividing the sum of credit points 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

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

where ‘i’ is the subject indicator index (takes into account all subjects in a semester), ‘N’ is the no. of subjects ‘**registered**’ for the semester (as specifically required and listed under the course structure of the parent department), C<sub>i</sub> is the no. of credits allotted to the i<sup>th</sup> subject, and G<sub>i</sub> represents the grade points (GP) corresponding to the letter grade awarded for that i<sup>th</sup> subject.

- 14.9 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 II semester onwards at the end of each semester as per the formula

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

**(i.e., up to and inclusive of S semesters S >=2)**

where ‘**M**’ is the **total** no. of subjects (as specifically required and listed under the course structure of the parent department) the student has ‘**registered**’ i.e., from the 1<sup>st</sup> semester onwards up to and inclusive of the 8<sup>th</sup> semester, ‘j’ is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C<sub>j</sub> is the no. of credits allotted to the j<sup>th</sup> subject, and G<sub>j</sub> represents the grade points (GP) corresponding to the letter grade awarded for that j<sup>th</sup> subject. After registration and completion of I year I 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	C	5	3 x 5 = 15
	21			152

$$\text{SGPA} = 152/21 = 7.24$$

### Illustration of calculation of CGPA up to 3<sup>rd</sup> semester

Semester	Course/ Subject Title	Credits Allotted	Letter Grade Secured	Corresponding Grade Point (GP)	Credit Points (CP)
I	Course 1	3	A	8	24
I	Course 2	3	O	1	30
I	Course 3	3	B	6	18
I	Course 4	4	A	8	32
I	Course 5	3	A+	9	27
I	Course 6	4	C	5	20
II	Course 7	4	B	6	24
II	Course 8	4	A	8	32
II	Course 9	3	C	5	15
II	Course 10	3	O	1	30
II	Course 11	3	B+	7	21
II	Course 12	4	B	6	24
II	Course 13	4	A	8	32
II	Course 14	3	O	1	30
III	Course 15	2	A	8	16
III	Course 16	1	C	5	5
III	Course 17	4	O	1	40
III	Course 18	3	B+	7	21
III	Course 19	4	B	6	24

III	Course 20	4	A	8	32
III	Course 21	3	B+	7	21
	Total Credits	69		Total Credit Points	518

$$\text{CGPA} = 518/69 = 7.51$$

The above illustrated calculation process of CGPA will be followed for each subsequent semester until 8<sup>th</sup> semester. The CGPA obtained at the end of 8th semester will become the final CGPA secured for entire B. Tech. Programme.

- 14.10 For merit ranking or comparison purposes or any other listing, **only** the ‘**rounded off**’ values of the CGPAs will be used.
- 14.11 SGPA and CGPA of a semester will be mentioned in the semester Memorandum of Grades if all subjects of that semester are passed in first attempt. Otherwise the SGPA and CGPA shall be mentioned only on the Memorandum of Grades in which sitting he passed his last exam in that semester. However, mandatory courses will not be taken into consideration.

### 15.0 Passing Standards

- 15.1 A student shall be declared successful or ‘passed’ in a semester, if he/she secures a  $GP \geq 5$  (‘C’ grade or above) in every subject/course in that semester (i.e. when the student gets an SGPA  $\Rightarrow$  5.00 at the end of that particular semester); and he/she shall be declared successful or ‘passed’ in the entire under graduate programme, only when he/she gets a CGPA  $\Rightarrow$  5.00 for the award of the degree as required.
- 15.2 After the completion of each semester, a grade card or grade sheet 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, no. of credits, grade earned, etc.), credits earned.

### 16.0 Declaration of Results

- 16.1 For the final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

$$\% \text{ of Marks} = (\text{Final CGPA} - 0.5) \times 10$$

### 17.0 Award of Degree

- 17.1 A student who registers for all the specified subjects/ courses as listed in the course

structure and secures the required number of 160 credits (with CGPA=> 5.0), within 8 academic years from the date of commencement of the first academic year, shall be declared to have '**qualified**' for the award of B. Tech. degree in the chosen branch of Engineering selected at the time of admission.

17.2 A student who qualifies for the award of the degree as listed in item 17.1 shall be placed in the following classes.

17.3 A student with final CGPA (at the end of the under graduate programme) => 8.00, and fulfilling the following conditions - shall be placed in '**first class with distinction**'. However, he

(i) Should have passed all the subjects/courses in '**first appearance**' within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.

(ii) Should have secured a CGPA => 8.00, at the end of each of the 8 sequential semesters, starting from I year I semester onwards.

(iii) 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.

A student who is not fulfilling any of the above conditions with final CGPA > 8 shall be placed in '**first class**'.

17.4 Students with final CGPA (at the end of the under graduate programme) => 6.50 but < 8.00 shall be placed in '**first class**'.

17.5 Students with final CGPA (at the end of the under graduate programme) => 5.50 but < 6.50, shall be placed in '**second class**'.

17.6 All other students who qualify for the award of the degree (as per item 17.1), with final CGPA (at the end of the under graduate programme) => 5.00 but < 5.50, shall be placed in '**pass class**'.

17.7 A student with final CGPA (at the end of the under graduate programme) < 5.00 will not be eligible for the award of the degree.

17.8 Students fulfilling the conditions listed under item 17.3 alone will be eligible for award of '**Gold Medal**'

#### 18.0 **Withholding of Results**

If the student has not paid the fees to the college at any stage, or has fee dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the

result of the student may be withheld, and the student will not be promoted to the next higher semester. The award or issue of the degree may also be withheld in such cases.

## **19.0 Transitory Regulations**

**19.1** There shall be no branch transfers after the completion of admission process.

### **19.2 Transfer candidates (from non-autonomous college affiliated to JNTUH)**

A student who is following JNTUH curriculum, transferred from other college to this institute in third semester or subsequent semesters shall join with the autonomous batch in the appropriate semester. Such candidates shall be required to pass in all the courses in the program prescribed by the Board of Studies concerned for that batch of students from that semester onwards to be eligible for the award of degree. However, exemption will be given in the courses of the semester(s) of the batch which he/she passed earlier and substitute courses are offered in their place as decided by the Board of Studies. The student has to clear all his backlog courses up to previous semester by appearing for the supplementary examinations conducted by JNTUH for the award of degree. The total number of credits to be secured for the award of the degree will be the sum of the credits up to previous semester under JNTUH regulations and the credits prescribed for the semester in which a candidate joined after transfer and subsequent semesters under the autonomous status. The class will be awarded based on the academic performance of a student in the autonomous pattern.

### **19.3 Transfer candidates (From an autonomous college affiliated to JNTUH):**

A student who has secured the required credits up to previous semesters as per the regulations of other autonomous institutions shall also be permitted to be transferred to this institute. A student who is transferred from the other autonomous colleges to this institute in third semester or subsequent semesters shall join with the autonomous batch in the appropriate semester. Such candidates shall be required to pass in all the courses in the program prescribed by the Board of Studies concerned for that batch of students from that semester onwards to be eligible for the award of degree. However, exemption will be given in the courses of the semester(s) of the batch which he had passed earlier and substitute subjects are offered in their place as decided by the Board of Studies. The total number of credits to be secured for the award of the degree will be the sum of the credits up to previous semester as per the regulations of the college from which he is transferred and the credits prescribed for the semester in which a candidate joined after transfer and subsequent semesters under the autonomous status. The class will be awarded based on the academic performance of a student in the autonomous pattern.

#### **19.4 Transfer Candidates (From a college affiliated to other University)**

The students seeking transfer to SMEC from various other Universities/institutions have to pass the backlog subjects which are equivalent to the subjects of SMEC, and also pass the subjects of SMEC 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 SMEC, the students have to study those subjects in SMEC in spite of the fact that those subjects are repeated.

**19.5** The transferred students from other Universities/institutions to SMEC who are on rolls shall be provided one chance to write the CBT (internal marks) in the equivalent subject(s) as per the clearance letter issued by the Board of Studies.

**19.6** The transferred students from other Universities/institutions to SMEC shall be provided one chance to write the internal examinations in the equivalent subject(s) to the students who are on rolls, as per the clearance (equivalence) letter issued by the Board.

#### **19.7 Detained / Discontinued Candidates:-**

##### **Four Year B. Tech Regular Course**

A student who is following Jawaharlal Nehru Technological University (JNTUH) curriculum and detained due to the shortage of attendance at the end of the first semester shall join the autonomous batch of first semester. Such students shall study all the courses prescribed for the batch in which the student joins and considered on par with regular candidates of Autonomous stream and will be governed by the autonomous regulations. A student who is following JNTUH curriculum, detained due to lack of credits or shortage of attendance at the end of the second semester or at the subsequent semesters shall join with the autonomous batch in the appropriate semester. Such candidates shall be required to pass in all the courses in the program prescribed by the Board of Studies concerned for that batch of students from that semester onwards to be eligible for the award of degree. However, exemption will be given in the courses of the semester(s) of the batch which he had passed earlier and substitute courses will be offered in place of them as decided by the Board of Studies. The student has to clear all his backlog courses up to previous semester by appearing for the supplementary examinations conducted by JNTUH for the award of degree. The total number of credits to be secured for the award of the degree will be sum of the credits up to previous semester under JNTUH regulations and the credits prescribed for the semester in which a candidate seeks readmission and subsequent semesters under the autonomous stream. The class will be awarded based on the academic performance of a student in the autonomous pattern.

### **Three Year B. Tech Program under Lateral Entry Scheme**

A student who is following JNTUH curriculum and detained due to the shortage of attendance at the end of the first semester of second year shall join the autonomous batch of third semester. Such students shall study all the courses prescribed for the batch in which the student joins and considered on par with Lateral Entry regular candidates of Autonomous stream and will be governed by the Autonomous Regulations. A student who is following JNTUH curriculum and detained due to the shortage of attendance at the end of the first semester of second year shall join the autonomous batch of third semester. Such students shall study all the courses prescribed for the batch in which the student joins and considered on par with Lateral Entry regular candidates of Autonomous stream and will be governed by the autonomous regulations. A student who is following JNTUH curriculum, if detained due to lack of credits or shortage of attendance at the end of the second semester of second year or at the subsequent semesters shall join with the autonomous batch in the appropriate semester. Such candidates shall be required to pass in all the courses in the program prescribed by the Board of Studies concerned for that batch of students from that semester onwards to be eligible for the award of degree. However, exemption will be given in the courses of the semester(s) of the batch which he had passed earlier and substitute courses are offered in place of them as decided by the Board of Studies. The student has to clear all his backlog courses up to previous semester by appearing for the supplementary examinations conducted by JNTUH for the award of degree. The total number of credits to be secured for the award of the degree will be sum of the credits up to previous semester under JNTUH regulations and the credits prescribed for the semester in which a candidate seeks readmission and subsequent semesters under the autonomous status. The class will be awarded based on the academic performance of a student in the autonomous pattern. s.

#### **20.0 Scope**

- 20.1 The academic regulations should be read as a whole, for the purpose of any interpretation.
- 20.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Principal is final.
- 20.3 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.
- 20.4 Where the words “he”, “him”, “his”, occur in the regulations, they include “she”, “her”, “hers”.



# St. Martin's Engineering College

An Autonomous Institute  
Dhulapally, Secunderabad-500 100  
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## ACADEMIC REGULATIONS FOR B.TECH. (LATERAL ENTRY SCHEME) WITH EFFECT FROM THE AY 2020-21

### 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 123 credits and secure 123 credits with CGPA  $\geq 5$  from II year to IV year B. Tech. programme (LES) for the award of B. Tech. degree.
3. The students, who fail to fulfill 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 Rules

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 25 credits out of 42 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 51 credits out of 86 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 be applicable for B. Tech. (Lateral Entry Scheme).

## MALPRACTICES RULES

### DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

	Nature of Malpractices/Improper Conduct	Punishment
	If the student:	
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 student is appearing but has not made use of (material shall include any marks on the body of the student 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 student orally or by any other body language methods or communicates through cell phones with any student 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 students 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 student is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student 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 student is to be cancelled and sent to the Examination Center.

3	Impersonates any other student in connection with the examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student 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 student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student 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 in the answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student 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 student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student 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	<p>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.</p>	<p>In case of students of the college, they shall be expelled from examination hall and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.</p>
7.	<p>Leaves the exam hall taking away answer script or intentionally tears off the script or any part thereof inside or outside the examination hall.</p>	<p>Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student 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 student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.</p>

8	Possesses 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 student 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 student is also debarred and forfeits the seat.
9	If student of the college, who is not a student 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.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student 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 student is also debarred and forfeits the seat. Person(s) who do not belong to the college will be handed over to the 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 student has already appeared for 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 student has appeared for including practical examinations and project work of that semester/year examinations.
12	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the College for further action to award a suitable punishment.	

Malpractice identified by Squad or Special Invigilators: Punishment to the *student as per* above guide lines.