

## Annexure-II(a)

# **ACADEMIC REGULATIONS V21 FOR M. Tech DEGREE COURSE**

(Applicable for the batch of students admitted from the Academic Year 2021-2022)

Applicable for the students of M. Tech (Regular) programme from the Academic Year 2020-21 onwards. The M. Tech Degree from Sri Vasavi Engineering college, Tadepalligudem shall be conferred on candidates by the affiliaty university who are admitted to the program and who fulfill all the requirements for the award of the Degree.

### **1.0 ELIGIBILITY FOR ADMISSIONS**

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

Admissions shall be made on the basis of merit/rank obtained by the candidates at the qualifying Entrance Test conducted by the University or on the basis of any other order of merit as approved by the University/ State Government, subject to reservations as laid down by the Govt. from time to time.

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

**2.1** A student shall be declared eligible for the award of the M. Tech Degree, if he pursues program of study in not less than two and not more than four academic years.

**2.2** The student shall register for all 68 credits and secure all the 68 credits.

**2.3** The minimum instruction days in each semester are 90.

### **3.0 PROGRAMME OF STUDY**

The following specializations are offered at present for the M. Tech Programme of study.

<b>CE</b>	M.Tech. – CIVIL(Structural Engineering)
<b>EEE</b>	M.Tech- Power Electronics and Power Systems
<b>ME</b>	M.Tech- Thermal Engineering
<b>ECE</b>	M.Tech- Embedded System & VLSI
<b>CSE</b>	M.Tech- Computer Science

and any other course as approved by AICTE/ University from time to time.

#### 4.0 ATTENDANCE

- 4.1 A student shall be eligible to appear for examinations if he acquires a minimum of 75% of attendance in aggregate of all the courses, and with minimum 50% in each and every course including practicals.
- 4.2 Condonation of shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester shall be granted by the College Academic Committee.
- 4.3 Shortage of Attendance **below** 65% in aggregate shall not be condoned.
- 4.4 Students whose shortage of attendance is not condoned in any semester are not eligible to write their end semester examination of that semester.
- 4.5 A prescribed fee shall be payable towards condonation of shortage of attendance.
- 4.6 A student shall not be promoted to the next semester unless, he satisfies the attendance requirement of the present semester, as applicable. They may seek re-admission into that semester when offered next. If any candidate fulfills the attendance requirement in the present semester, he shall not be eligible for re-admission into the same class.

#### 5.0 EVALUATION

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

- 5.1 For the theory courses 70 marks shall be awarded based on the performance in the End Semester Examination and 30 marks shall be awarded based on the continuous Internal Evaluation. The internal evaluation shall be made based on the **average** of the marks secured in the two Mid Term-Examinations conducted-one in the middle of the Semester and the other immediately after the completion of instruction. Each mid term examination shall be conducted for a total duration of 120 minutes with 3 questions (without choice) each for 10 marks. End semester examination is conducted for 70 marks for all FIVE (5) questions (one question from one unit) to be answered (either or).
- 5.2 For practical courses, 70 marks shall be awarded based on the performance in the End Semester Examinations and 30 marks shall be awarded based on the day-to-day performance as Internal Marks. The internal evaluation based on the day to day work-10 marks, record- 10 marks and the remaining 10 marks to be awarded by conducting an internal laboratory test. The end examination shall be conducted by the examiners, with a breakup marks of Procedure-20, Experimentation-20, Results-20, Viva-voce-10.
- 5.3 For Mini Project with Seminar, a student under the supervision of a faculty member, shall collect the literature on a topic and critically review the literature and submit it to the department in a report form and shall make an oral presentation before the Project Review Committee consisting

of Head of the Department, supervisor/mentor and two other senior faculty members of the department. For Mini Project with Seminar, there will be only internal evaluation for 50 marks. A candidate has to secure a minimum of 50% of marks to be declared successful.

- 5.4 A candidate shall be deemed to have secured the minimum academic requirement in a course if he secures a minimum of 40% of marks in the End semester Examination and a minimum aggregate of 50% of the total marks in the End Semester Examination and Internal Evaluation taken together.
- 5.5 In case the candidate does not secure the minimum academic requirement in any course (as specified in 5.4) he has to re-appear for the End semester Examination in that course. A candidate shall be given **one** chance to re-register for each course provided the internal marks secured by a candidate **are less than 50% and has failed in the end examination**. In such a case, the candidate must re-register for the course(s) and secure the required minimum attendance. The candidate's attendance in the re-registered course(s) shall be calculated separately to decide upon his eligibility for writing the end examination in those course(s). In the event of the student taking another chance, his internal marks and end examination marks obtained in the previous attempt shall stand cancelled. For re-registration the candidates have to apply to the college by paying the requisite fees and get approval before the start of the semester in which re-registration is required.
- 5.6 In case the candidate secures less than the required attendance in any re-registered course(s), he shall not be permitted to write the End Examination in that course. He shall again re-register the course when next offered.
- 5.7 Laboratory examination for M. Tech. courses must be conducted with two Examiners, one of them being the Laboratory Class Teacher and the second examiner shall be appointed by the principal from the panel of examiners submitted by the respective department.

## **6.0 EVALUATION OF PROJECT/DISSERTATION WORK**

Every candidate shall be required to submit a thesis or dissertation on a topic approved by the Project Review Committee.

- 6.1 The work on the project shall be initiated at the beginning of the II year and the duration of the project is two semesters. A candidate is permitted to submit Project Thesis only after successful completion of theory and practical course with the approval of PRC not earlier than 40 weeks from the date of registration of the project work. The candidate has to pass all the theory and practical courses before submission of the Thesis.
- 6.2 A Project Review Committee (PRC) shall be constituted with Head of the Department and two other senior faculty members in the department.
- 6.3 Registration of Dissertation/Project Work: A candidate is permitted to register for the project work after satisfying the attendance requirement of all the courses, both theory and practical upto 2<sup>nd</sup> semester
- 6.4 After satisfying 6.3, a candidate has to submit, in consultation with his project supervisor, the title, objective and plan of action of his project work for approval. The student can initiate the Project work, only after obtaining

the approval from the Project Review Committee (PRC).

- 6.5 If a candidate wishes to change his supervisor or topic of the project, he can do so with the approval of the Project Review Committee (PRC). However, the PRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of project proposal. If yes, his date of registration for the project work will be taken as the date on which the change of Supervisor or topic as the case may be applied.
- 6.6 Continuous assessment of Dissertation-I and Dissertation-II during the Semester(s) will be monitored by the PRC.
- 6.7 A candidate shall submit his status report in two stages to the PRC, at least with a gap of 3 months between them.
- 6.8 At the end of the III semester project phase-1 is evaluated for 50 marks by the committee casting of HOD, supervisor and external examiner appointed by principal.
- 6.9 Three copies of the Project Thesis certified by the supervisor shall be submitted to the department.
- 6.10 The thesis shall be adjudicated by one examiner selected by the principal. For this, the HOD of the department shall submit a panel of 5 examiners, eminent in that field, with the help of the guide concerned.
- 6.11 The Head of the Department shall coordinate and make arrangements for the conduct of Viva-Voce examination.
- 6.12 If the report of the examiner is favorable, Viva-Voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the examiner who adjudicated the Thesis. The Board shall jointly evaluate the candidate's work for a maximum of 100 marks.
- 6.13 If the report of the examiner is not favourable, the candidate shall revise and resubmit the Thesis, in the time frame as decided by the PRC. If the report of the examiner is unfavorable again, the thesis shall be summarily rejected. The candidate has to re-register for the project and complete the project within the stipulated time after taking the approval from the principal.
- 6.14 If the report of the Viva-Voce is unsatisfactory (ie, < 50 marks), the candidate shall retake the Viva-Voce examination only after three months. If he fails to get a satisfactory report at the second Viva-Voce examination, the candidate has to re-register for the project and complete the project within the stipulated time after taking the approval from the University.

## 7.0 **Supplementary Examinations**

Supplementary examinations will be conducted twice in a year at the end of odd and even semester.

## 8.0 **Revaluation**

*Recounting of marks in the end semester examinations*

- 8.1 As per the notification issued by the controller of examinations, the students can submit the application for revaluation, along with the requisite fee receipt for revaluation of his/her answer script(s) of the theory course(s), if he /she is not satisfied with the marks obtained.
- 8.2 The Controller of examinations shall arrange for re-evaluate the answer script(s).

- 8.3 A new Examiner, other than the first examiner, shall re-evaluate the answer script(s).
- 8.4 Better marks out of the two shall be taken into consideration.
- 8.5 If the difference of marks between the two valuations is more than 15%, the answer script will be referred to third valuation. The average of nearest two marks will be awarded.

## 9.0 Cumulative Grade Point Average (CGPA)

Marks Range Theory/ Laboratory (Max - 100)	Letter Grade	Level	Grade Point
≥ 90%	O	Outstanding	10
≥80 to <90%	S	Excellent	9
≥70 to <80%	A	Very Good	8
≥60 to <70%	B	Good	7
≥50 to <60%	C	Satisfactory	6
<50%	F	Fail	0
		Absent	0

### Computation of SGPA

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

The **SGPA** is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.  $SGPA (S_i) = \frac{\sum (C_i \times G_i)}{\sum C_i}$

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

### Computation of CGPA

- The **CGPA** is also calculated in the same manner taking into account all the courses undergone by a student over all the semester of a Programme, i.e.
- $CGPA = \frac{\sum (C_i \times S_i)}{\sum C_i}$
- Where  $S_i$  is the SGPA of the  $i$ th semester and  $C_i$  is the total number of credits in that semester.
- The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.
- Equivalent Percentage =  $(CGPA - 0.75) \times 10$

## 10.0 AWARD OF DEGREE AND CLASS

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

	<b>CGPA to be secured</b>	
First Class with Distinction	$\geq 7.75$	<b>From the CGPA secured from 68 Credits.</b>
First Class	$\geq 6.75$	
Second Class	$\geq 5.75$ to $< 6.75$	
Pass Class	$\geq 4.75$ to $< 5.75$	

The Grades secured, Grade points and Credits obtained will be shown separately in the memorandum of marks.

## **11.0 WITHHOLDING OF RESULTS**

If the student is involved in indiscipline/malpractices/court cases, the result of the student will be withheld.

## **12.0 TRANSITORY REGULATIONS ( for V21 )**

**12.1** When a student gets detained due to academic regulations and rejoins the college to complete the programme. However, the academic regulations under which he/she was first admitted shall continue to be applicable to him/her.

**12.2** When a student discontinues for some time and rejoins the college to complete the programme. However, the academic regulations under which he/she was first admitted shall continue to be applicable to him/her.

## **13.0 GENERAL**

**13.1** Wherever the words –he||, –him||, –his||, occur in the regulations, they include –she||, –her||, –hers||.

**13.2** The academic regulation should be read as a whole for the purpose of any interpretation.

**13.3** In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.

**13.4** The University may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the University.