

# VIGNAN UNIVERSITY:: VADLAMUDI

## Academic Regulations for M.Tech. (Regular)

(Effective for the students admitted into first year from the academic year 2012-2013 onwards).

### 1.0 Eligibility for admission

Admission to the above programme shall be made subject to the eligibility, qualifications and specialization prescribed by the University from time to time. Admissions shall be made on the basis of merit rank obtained by the qualifying candidate at an entrance test conducted by the university or on the basis of any other order of merit approved by the university.

### 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 a course of study for not less than two academic years and completes it successfully.

2.2 A student, who fails to fulfill all the academic requirements for the award of the degree within four academic years from the year of his admission, shall forfeit his seat in M.Tech course.

### 3.0 Courses of Study

The following specializations are offered at present for the M.Tech course of study. All the courses are of 4-semester (two years) duration. The required theory subjects and practicals are covered in the I<sup>st</sup> year in two semesters. The student has to complete his project work under the guidance of a faculty member in the second year, i.e., in the III & IV semesters.

#### Mechanical

1. Machine Design
2. CAD/CAM/CAE
3. Energy Engineering
4. Thermal Engineering

#### ECE

1. Embedded Systems
2. VLSI Design
3. Communication & Signal Processing
4. Digital Electronics & Communications Systems
5. Data Communication & Networking

#### CSE & IT

1. Computer Science & Engineering
2. Information Technology

#### EEE

1. Power Electronics & Drives
2. Power Systems

#### Biotechnology

1. Biotechnology and Bioprocess Engineering

#### Chemical

1. Food Technology
2. Chemical Engineering

### 4.0 Attendance

The programmes are offered on a unit basis with each subject being considered a unit.

4.1 A candidate shall be deemed to have eligibility to write end semester examinations in a subject if he has put in at least 75% of attendance in that subject.

4.2 Shortage of attendance up to 10% in any subject (i.e. 65% and above and below 75%) may be condoned by the university on genuine and valid reasons on representation by the candidate with supporting evidence.

4.3 A candidate shall get minimum required attendance at least in three (3) theory subjects to get promoted to the next semester. In order to qualify for the award of the Post - Graduate Degree, the candidate shall complete all the academic requirements of the subjects, as per the course structure.

4.4 Shortage of attendance below 65% shall in no case be condoned.

## **5.0 Evaluation**

The performance of the candidate in each semester shall be evaluated subject — wise with a maximum of 100 marks for theory and 100 marks for practical, on the basis of internal evaluation and end semester examination.

5.1 For the theory subject 60 marks shall be awarded based on the performance in the end semester examination, 40 marks shall be awarded based on the internal evaluation. The internal evaluation shall be made based on the following break up : 20% is given as 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 duration of 120 minutes. 15% is given for the Seminar / projects / Assignments. 5% is given for the attendance.

5.2 For practical subjects, 60 marks shall be awarded based on the performance in the end semester examinations, 40 marks shall be awarded based on the day-to-day performance as Internal Marks.

5.3 There shall be a seminar presentation during 3<sup>rd</sup> semester. For 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 departmental committee. The departmental committee consists of Head of the Department, supervisor and two other senior faculty members of the department. For seminar there will be only internal evaluation of 50 marks. A candidate has to secure a minimum of 50% to be declared successful.

5.4 A candidate shall be deemed to have secured the minimum academic requirement in a subject if he secures a minimum of 40% of marks in the end 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 subject (as specified in 5.4) he has to reappear for the end examination in that subject. A candidate shall be given one chance to re-register for each subject provided the internal marks secured by a candidate are less than 50% and he has failed in the end examination. In such case candidate must re-register for the subject(s) and secure required minimum attendance. The attendance of re-registered subject(s) shall be calculated separately to decide upon the eligibility for writing the end examination in those subject(s). In the event of taking another chance, the internal marks and end examination marks obtained in the previous attempt are nullified.

5.6 In case the candidate secures less than the required attendance in any subject(s), he shall not be permitted to appear for the end examination in that subject(s). He shall have to re-register for the subject when next offered.

5.7 Laboratory examination for M.Tech courses will be conducted with two examiners, one of them being the laboratory class teacher and second examiner shall be another laboratory teacher, usually an external faculty member.

## **6.0 Evaluation of Project / Dissertation work**

### **Phase - I (II Year I Semester, 24 credits)**

6.1 The candidate should submit a report with the approval of the guide on the M.Tech Project work carried out 10 days prior to the scheduled date of presentation to HoD.

6.2 HoD will constitute an assessment panel comprising of guide, one faculty member conversant with the project topic and HoD.

6.3 The project presentation of all M.Tech. students will be scheduled by HoD before the end of the semester.

6.4 The written report and oral presentation will be evaluated for 100 marks. A minimum of 50 marks are to be obtained by the candidate for satisfactory performance. A letter grade will be awarded based on the marks obtained following university grading system.

6.5 If the performance of the candidate is not satisfactory, the candidate will be given more time to work on the project and re-submit the report within a month for reassessment. If the candidate's performance is not satisfactory in the 2nd assessment of Phase - I, he/she is required to re-register for Phase - I in the following semester.

6.6 The grades of all the candidates from the department should be sent to the Director of Evaluation (DE) immediately after the examination.

**Phase - II (II Year II Semester, 24 credits)**

6.8 The HoD shall recommend a panel of 2 or 3 external members and 2 or 3 internal members in a sealed envelope of DE. The external and internal panel members other than the guide shall be not less than the rank of associate professor / equivalent senior technical person from research organization / industry.

6.9 DE will select one member from each panel as external and internal panel members and will inform the HoD. HoD shall make arrangements for conducting project evaluations.

6.10. The candidate should submit the report with the approval from the guide to the HoD 15 days prior to the scheduled date of evaluation. The HoD shall send the project reports to all examiners in advance.

6.11 The assessment shall be done by a panel of members consisting of the guide, internal members, HoD and the external member.

6.12 The written report and oral presentaiton will be evaluated for 100 marks. A letter grade will be awarded based on the marks obtained folowing university grading system.

6.13 Appropriate weightage will be given for the Presentation / Publication of project work in National / International conferences or journals.

6.14. If the candidate's performance is not satisfactoyr, the candidate may be given 3 months time to re - submit the report by incorporating the suggestions/ directions of the panel for re-assessment.

6.15 Maximum period for completion of M.Tech., course is resctricted to 3 years. The university may consider for extension of a maximum of 1 more year beyond 3 years for genuine reasons.

**7.0 Award of Degree and Class**

A candidate shall be eligible for the respective degree, if he satisfies the minimum academic requirements in every subject and secures 'satisfactory' report on his thesis/dissertation and viva - voce.

In order to qualify for the award of the Post - Graduate Degree, the candidate shall complete all the academic requirements of the subjects as per the course structure.

**Grade system :** Marks as well as letter guide are awarded against each course. A six point grading system is followed as given below and a corresponding letter grade is also awarded against the marks obtain in each course.

Letter Grade	% of marks	Grade Points
Outstanding 'O'	90 & above	10
Excellent 'E'	80& above but less than 90	9
Very Good 'A'	70& above but less than 80	8
Good 'B'	60& above but less than 80	7
Fair 'C'	50& above but less than 80	6
Failed 'D'	Below 50	0

**Award of division / Class**

The following divisions / classes are awarded based on the aggregate percentage of marks.

70% and above : I class with distinction

60% and less than 70% : I Class

50% and less than 60% : II Class

**8.0 With-holding of results:** If the candidate has not paid any dues to the university or if any case of indiscipline is pending against him, the result of the candidate will be withheld and he will not be allowed to progress to the next semester. The issue of the degree is liable to be withheld in such cases.

**9.0 Transitory Regulations :** Candidates who have discontinued or have been detained for want of attendance or who failed after having undergone the course are eligible for admission to the same or equivalent subjects as and when subjects are offered, subject to 5.5 and 2.0.

**10.0 General :**

10.1 The academic regulations should be read as a whole for the purpose of any interpretation.

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

10.3 The university may change or amend the academic regulations and syllabus at any time and the changes and amendments made shall be applicable to all students with effect from the date notified by the university

10.4 Wherever the word he, him or his occur, it will also include she and her.