

ACADEMIC REGULATIONS

For
PG PROGRAMMES

2012-13

Version 1.1

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GMR Institute of Technology

An Autonomous Institute Affiliated to JNTUK, Kakinada

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Regulations for M. Tech Two Year Regular Courses

R 1.0 Eligibility for Admission:

The admissions for category A and B seats shall be as per the guidelines of APSICHE in consonance with government reservation policy.

- a) Under Category A: 70% of the seats are filled based on GATE/PGCET ranks.
- b) Under Category B: 30% seats are filled on merit basis as per guidelines of APSICHE.

R 2.0 Course Structure

The curriculum shall comprise of Core courses and Elective subjects, Term Paper, Comprehensive viva-voce, Internship and Project work. The list of elective subjects may include subjects from allied disciplines also.

R 2.1 Semester wise Course break-up

Semester	No. of Theory Courses	No. of Lab Courses	Total Credits
1 st Semester	3 +2*	1+1#	24
2 nd Semester	3 +2*	1+ 1**	24
3 rd Semester	Internship and Project work		4
4 th Semester	Project work		20
Total			72

*Electives #Term Paper **comprehensive Viva-Voce

Note: In view of admission of students with non engineering background, M.Tech (CSE) progrms shall have six theory courses in each of 1st and 2nd semesters.

R 3.0 Course wise break-up for the total credits:

Total Theory Courses (6 Core Courses + 4 Elective Courses)	: 10 @ 4 credits each	= 40
Total Laboratory Courses	: 2 @ 2 credits each	= 4
Term Paper	: 1 @ 2 credits each	= 2
Comprehensive Viva-Voce	: 1 @ 2 credits	= 2
Internship	: 1 @ 4 credits	= 4
Project work	: 1 @ 20 credits	= 20

R 4.0 Division of marks for Internal and External assessment

Course	Marks of Internal Assessment	Marks of External Assessment	Maximum Marks
Theory	40	60	100
Labs	25	50	75
Term Paper	25	50	75
Comprehensive Viva-Voce	--	75	75
Internship	25	50	75
Project work	Grade	Grade	

R 5.0 Evaluation Methodology:

R 5.1 Theory Course:

Each theory Subject will be evaluated for a total of 100 marks, consisting of 40 marks for internal assessment and 60 marks for semester end examination. Out of 40 marks allotted for internal assessment during the semester, 30 marks will be awarded by taking average marks scored in best two sessional examinations out of three sessional examinations conducted in a semester. The balance 10 marks are awarded based on submission of minimum two assignments with 5 Marks each. Each sessional examination shall be conducted for duration of 90 minutes with four questions to be answered out of five questions. End examination will be conducted for a duration of three hours with five questions to be answered out of eight questions.

R 5.2 Laboratory Course

a) Each lab will be evaluated for a total of 75 marks consisting of 25 marks for internal assessment and 50 marks for Semester end laboratory examination. Out of 25 marks of internal assessment, continuous lab assessment will be done for 15 marks for the day to day performance and 10 marks for the final internal lab assessment. The semester end lab examination for 50 marks shall be conducted by two examiners, one of them being laboratory class teacher as internal examiner and an external examiner nominated by the Principal from the panel of experts recommended by HOD.

R 5.3 Term Paper

The Term Paper is a self study report and shall be carried during 1st semester along with other lab courses. Every student will take up this term paper individually and submit a report. The scope of the term paper could be an exhaustive literature review choosing any engineering concept with reference to a standard research papers or an extension of the concept of earlier course work in consultation with the term paper supervisor. The term paper reports submitted by the individual students during the first semester will be evaluated for a total of 75 marks consisting of 25 marks for internal assessment and 50 marks for semester end examination. Internal assessment shall be done by the term paper supervisor. Semester end examination for 50 marks shall be conducted by two examiners, one of them being term paper supervisor as internal examiner and an external Examiner nominated by the Principal from the panel of experts recommended by HOD.

R 5.4 Comprehensive Viva-Voce

All the students shall face a Comprehensive viva-voce covering the total courses of first and second semesters. The comprehensive viva-voce will be conducted along with 2nd semester lab examination for 75 marks by a committee consisting of Head of the Department, two senior faculty members nominated by the Head of the Department.

R 5.5 Internship

All the students shall undergo the summer internship during summer break after second semester. The minimum internship period is two months and the students have an option of choosing their own industry/area of interest, which may be related to their respective branch or any other service oriented task. A self study report for the internship shall be submitted and evaluated during the third semester and will be evaluated for a total of 75 marks consisting of 25 marks for internal assessment and 50 marks for semester end examination. Internal assessment shall be done by the internship supervisor. Semester end examination for 50 marks shall be conducted by two examiners, one of them being internship supervisor as internal examiner and an external examiner nominated by the Principal from the panel of experts recommended by HOD.

R 5.6 Project work

All the students shall take up a project work during 3rd and 4th semesters which carries a total of 20 credits. Every candidate shall be required to submit thesis or dissertation after completion of satisfactory work on a topic approved by the Project Review Committee.

- a) A Project Review Committee (PRC) shall be constituted with the Associate Dean (R&D), Head of the Department and one senior faculty member of the department apart from the Project Supervisor.
- b) Registration of Project Work: A student is permitted to register for the project work in the beginning of the third semester after satisfying all the academic requirements.(ref: R 7.0(b))
- c) A student has to submit the title, objective and plan of action of his project work in consultation with his project supervisor to the Project Review Committee (PRC) for its approval before the second semester end examinations. After obtaining the approval of the Committee the student can initiate the Project work from the beginning of the third semester.

- d) The project work initiated during the third semester shall be completed in duration of 10 months and its progress will be reviewed from time to time by the PRC.
- e) Progress of the project work shall be reviewed in the 3rd semester for two times for satisfactory performance of the student. 20 credits shall be awarded based on the successful submission and approval of thesis.
- f) On the completion of the project work the candidate shall submit the draft copy of thesis to the Head of the Department for the approval of PRC and shall make an oral presentation.
- g) After the final approval by PRC, four copies of the Project Thesis certified by the supervisor shall be submitted to the Department.
- h) Students are allowed to submit the project work/ thesis if s/he clears all the first and second semester courses.
- i) The thesis shall be evaluated by one examiner selected by the Principal/Chief Controller of examinations from a panel of 5 examiners, who are eminent in the field and nominated by the concerned guide and Head of the department.
- j) The following weightage are given for the continuous assessment as well as for the final evaluation of the project work:
 - i) Weightage for Supervisor evaluation - 40 %
 - ii) Weightage for PRC evaluation - 10%
 - iii) Weightage for External evaluation - 50%

R 5.7 Sessional Examination Pattern for all Theory Courses:

For all the theory courses, three sessional examinations shall be conducted for 30 marks each, during the semester period with the following guidelines.

- a) The schedule for three of sessional examinations will be notified in the academic calendar in the beginning of every semester.
- b) The duration of each test will be one and half hours.

- c) Three sessional examinations shall be conducted at the end of the 5th, 11th and 17th week of the semester respectively for the syllabus that will be covered in every 5 weeks.
- d) Students shall answer any four questions out of five questions having at least one question from each unit.
- e) All the students will be notified with the marks secured within one week after the completion of the sessional exams.

Students are permitted for reconciliation with in a period of two working days after the notification of marks.

R 5.8 Scheme for the award of Grade

- a. A student shall be deemed to have satisfied the minimum academic requirements, and earns the required credits for a given theory course, if s/he secures
 - i. Not less than 40% marks in the semester end examination in a particular course,
 - ii. Not less than 50% marks considering both internal and semester end examination in a particular course.
- b. A student shall be deemed to have satisfied the minimum academic requirements and earn the credits for each Labs/ Term Paper/Comprehensive Viva-Voce/Internship course, if s/he secures
 - i. Not less than 50% marks for each Lab/ Term Paper/Comprehensive Viva-Voce/Internship course in the semester end exam,
and
 - ii. minimum of 50% marks for each Lab/Term Paper/Comprehensive Viva-Voce/Internship course considering both internal and semester end examination.

R 6.0 Attendance Requirements:

- a) It is desirable for a candidate to put on 100% attendance in all the subjects. However, a candidate shall be permitted to appear for the

end semester examination provided s/he maintains a minimum of 75% over all attendance in the semester.

- b) The shortage of attendance on medical grounds can be condoned to an extent of 10% provided a medical certificate is submitted to the Head of the Department when the candidate reports back to the classes immediately after the leave. Certificates submitted afterwards shall not be entertained. Condonation fee as fixed by the college for those who put on attendance between $\geq 65\%$ and $<75\%$ shall be charged before the end examinations. Attendance may also be condoned as per the State Government rules for those who participate in sports, co-curricular and extra-curricular activities provided their attendance is in the minimum prescribed limits for the purpose and recommended by the concerned authority.
- c) In case of the students having over all attendance less than 65% after condonation shall be declared detained and has to repeat semester again.

R 7.0 Promotion Policies:

- a. A student shall be promoted from 1st semester to 2nd semester only if s/he fulfills the attendance requirement. In case a student fails to fulfill the attendance requirement, s/he has to repeat the semester in the next academic year.
- b. A student shall be promoted from 2nd semester to 3rd semester only if s/he fulfills the attendance requirement and earning of minimum 50% of credits up to 2nd semester.

R 8.0 Graduation requirements

A student shall be declared eligible for the award of M. Tech degree, if s/he pursues a course of study and completes it successfully in not less than two academic years and not more than four academic years. A Student, who fails to fulfill all the academic requirements for the award of the degree within four academic years from the year of their admission, shall forfeit his/her seat in M.Tech course.

- a. A student will be eligible for the award of M. Tech degree on securing a minimum of 4.0 CGPA
- b) In the event of non-completion of project work and/or non-submission of the project report by the end of the fourth semester, the candidate shall re-register for the project. In such a case, the candidate will not be permitted to submit the report earlier than three months and not later than six months from the date of registration.
- c) In case of project work, student is awarded with A, B, C or D grades. For the award of M.Tech degree a student shall secure at least 'C' grade in the Project. In case a student secures 'D' grade, he/she need to re-do the project work and submit the report.

R 9.0 Award of Degree:

- a) Classification of degree will be as follows:

Applicable for 2013 admitted batch onwards

- a. CGPA \geq 7.5 : First Class with Distinction
- b. CGPA \geq 6.5 and $<$ 7.5 : Degree with First Class
- c. CGPA \geq 5.0 and $<$ 6.5 : Degree with Second Class
- d. CGPA \geq 4.0 and $<$ 5.0 : Degree with Pass Class

Applicable for 2012 admitted batch only

- a. CGPA \geq 8.0 : First Class with Distinction
- b. CGPA \geq 7.0 and $<$ 8.0 : Degree with First Class
- c. CGPA \geq 5.0 and $<$ 7.0 : Degree with Second Class
- d. CGPA \geq 4.0 and $<$ 5.0 : Degree with Pass Class

- b) Degree with Distinction will be awarded to those students who clear all the subjects in single attempt and secure CGPA \geq 7.5/ CGPA \geq 8.0 during his/her regular course of study.
- c) In case a student takes more than one attempt in clearing a course, the final marks secured shall be indicated by * mark in the marks memo.

Note: Any trivial situation that may arise with regard to the academic regulations shall be referred to the Academic Council for final decision.

General

- a) s/he represents “she” and “he” both
- b) Where the words ‘he’, ‘him’, ‘his’, occur, they imply ‘she’, ‘her’, ‘hers’ also.
- c) The academic regulations should be read as a whole for the purpose of any interpretation.
- d) In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Chairman, Academic Council will be final.

The college may change or amend the academic regulations or syllabi from time to time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the institute.