

R.V.R. & J.C. COLLEGE OF ENGINEERING :: GUNTUR

(Autonomous)

(CHOICE BASED CREDIT SYSTEM REGULATIONS (R-17) for 2-YEAR MASTER OF TECHNOLOGY (M.Tech.) Degree Program)

(w.e.f. the batch of students admitted into First Year M.Tech.
from the academic year 2017-18)

1 MINIMUM QUALIFICATIONS FOR ADMISSION

The eligibility criteria for admission into M.Tech. programme is as per the guidelines of Andhra Pradesh State Council of Higher Education(APSCH), Amaravathi.

- 1.1 **Category – A Seats :** The seats under this category shall be filled by the Convener, PG CET Admissions.
- 1.2 **Category – B Seats :** The seats under this category shall be filled by the College as per the guidelines of APSCH.

2 COURSES OF STUDY

M.Tech. Courses are offered in the following branches of study:

Branch of Engineering	Specialisation Offered
Civil Engineering	Structural Engineering
Computer Science & Engineering	Computer Science and Engineering.
Electrical & Electronics Engineering	Power Systems Engineering.
Electronics & Communication Engineering	Communication Engineering & Signal Processing
Information Technology	Computer Science & Technology
Mechanical Engineering	Machine Design

3 DURATION OF THE COURSE AND MEDIUM OF INSTRUCTION

- 3.1 The duration of the course is two academic years consisting of two semesters in each academic year.
- 3.2 The medium of instruction and examination is English.

4 MINIMUM INSTRUCTION DAYS

Each semester shall consist of a minimum number of 90 days of instruction excluding the days allotted for tests, examinations and preparation holidays.

5 REGISTERING THE COURSES OFFERED

- 5.1 A candidate has to register and secure 74 credits out of which 24 credits from laboratory courses including project work.

5.2 The structure of the M.Tech. Programme comprises of two semesters of course work consisting of 6 Core subjects + 6 Elective subjects + 4 Labs (or) 3 Labs + 1 Seminar (or) 2 Labs + 2 Seminars, followed by two semesters of Dissertation.

5.3 MOOCS (Massive Open Online Courses) Requirements.

- Enrolment of MOOCS Course will be initiated from the date of commencement of class work for I Year I Semester.
- MOOCS course completion certificate of duration not less than 8 weeks, must be submitted on or before the last instruction day of II Year I Semester, for which 2 Credits will be awarded. The Grade is awarded based on the marks obtained in the MOOCS performance.
- List of organizations offering MOOCS course(s) will be announced by the respective Board of Studies at the time of commencement of class work for I Year I Semester.

5.4 Internship / Industrial Training / Professional Certification:

- Internship / Industrial Training / Professional Certification should be taken up during the summer holidays for a period of 4-8 weeks.
- Internship / Industrial Training / Professional Certification completion certificate must be submitted along with a report and presentation during the II Year I Semester Internal evaluation.

5.5 Dissertation shall be carried out under the Supervision of a Faculty Member in the concerned department.

- A student may, however, in certain cases, be permitted to work on his/her dissertation at the place of employment, any recognized Institution / R&D Organization / Industry with the approval of the Head of the Department concerned and Head of the Organization / Industry. In such cases, the dissertation shall be jointly supervised by a member of the faculty and a person from the Organization / Industry.
- The student is eligible for submission of M.Tech., dissertation report at the end of the II Year II Semester if he/she passed all the credit courses in the previous semesters.
- In a special case, if any student unable to submit his/her dissertation report at the end of II Year II Semester due to any other reason permitted by the head of the institution, he/she will be allowed to submit at a later date and the viva-voce examination will be conducted separately.

5.6 The student has to publish (or) get acknowledgement for acceptance of publication in at least one paper in a Conference / peer reviewed Journal related to his / her work to get eligibility to submit the Dissertation.

6 EVALUATION

6.1 The performance of the student in each semester is evaluated subject wise. In each Semester, there shall be two Internal Examinations consists of a Sessional Test for 30 Marks and an Assignment for 10 Marks. The semester end examination is conducted for 60 marks. The Internal Evaluation for Theory subjects is based on the 80% (24 out of 30 marks) weightage given to the best of the performances and the remaining 20% (6 out of 30 marks) for the least performance, in the two midterm examinations one held in the middle of the semester and the other held immediately after the completion of the instruction. The internal evaluation for practical subjects is based on the day to day performance and semester end internal practical Examination.

- 6.2 The marks for Seminar will be awarded by internal evaluation by a panel of the department.
- 6.3 For taking the Semester end examination in any theory or practical subject, students shall be required to obtain a minimum of 50% marks in Internal evaluation in that subject failing which he / she is required to repeat the subject when next offered.
- 6.4 For each theory subject, there is a comprehensive Semester End Examination at the end of each Semester. In addition to the regular semester end examinations held at the end of each semester, supplementary examinations will also be conducted during the academic year. Such candidates taking the Regular/ Supplementary examinations as supplementary candidates may have to take more than one examination per day.
- 6.5 For each Practical course the Semester End Examination is conducted by one internal and one external examiner appointed by the Principal of the College. The duration of the examination is specified in the detailed Schemes of Instruction & Examination.
- 6.6 Examination in Dissertation is conducted by one internal examiner and one external examiner appointed by the Principal.
- 6.7 The performance of the students in each semester is evaluated subject wise The distribution of marks between internal assessment and Semester End Examination is as follows:

Nature of the subject	Sessional Marks	Semester End Exam. Marks
Theory subjects	40	60
Practical's	40	60
Seminar / Internship / Mini Project / Professional Certification / Dissertation Review	100	–
Dissertation	40	60

7 LABORATORY / PRACTICAL COURSES

In any semester, a minimum of 10 experiments / exercises specified in the syllabus for laboratory course shall be completed by the student and get the record certified by the concerned Head of the Department, to be eligible to appear for the Semester End Examination in that Practical course.

8 ATTENDANCE

- 8.1 The student shall put up a minimum of 75% attendance in each subject.
- 8.2 Condonation for shortage in attendance up to 10% in any subject may be condoned by the Principal of the College for reasons of ill health and the application is submitted through proper channel at the time of actual illness and is supported by a certificate from the authorized Medical Officer approved by the Principal.
- 8.3 If the student does not satisfy the attendance requirement in any subject he or she shall not be permitted to appear for the Semester End examination in that subject and has to repeat that subject when next offered.

9 CONDITION(S) FOR PROMOTION

A student is eligible for promotion to next semester, if he / she satisfies the minimum requirements of attendance and sessional marks in 50% of the Theory Subjects, as stipulated in **Clauses 6 and 8**.

10 CONDITIONS FOR PASS

A student is declared to have passed in individual subject if he / she secures a minimum of 40% marks in theory and 50% marks in Laboratory / Project Work in Semester End Examination and a minimum of 50% marks in both Sessional & Semester End Examination put together.

11 AWARD OF CREDITS

Credits are awarded for each Theory / Practical / Internship / Professional Certification / Seminar / Dissertation / MOOCS. Each theory subject is awarded 4 credits and each practical / Internship / Professional Certification Seminar / MOOCS subjects are awarded 2 credits. Dissertation seminar in II Year I Semester is awarded 4 credits and Dissertation at the end of II Year II Semester is awarded 10 credits.

11.1 AWARD OF GRADES

S.No.	Range of marks	Grade	Grade Points
1.	≥ 90%	O	10.0
2.	80%-89%	A+	9.0
3.	70%-79%	A	8.0
4.	60%-69%	B+	7.0
5.	55%-59%	B	6.0
6.	50%-54%	C	5.0
7.	≤ 49%	F	0.0
8.	The grade 'W' represents withdrawal /absent (subsequently changed into pass or C to O or F grade in the same semester)	W	0.0

11.2 A candidate securing 'F' grade in any course there by securing zero grade points has to re-appear and secure at least 'C' grade in the subsequent examinations for that course.

11.3 After each semester, Grade sheet will be issued which will contain the following details:

- The list of courses for each semester and corresponding credits and grades obtained
- The Semester Grade Point Average (SGPA) for each Semester and
- The Cumulative Grade Point Average (CGPA) of all courses put together up to that semester.

SGPA is calculated based on the following formula:

$$\frac{\sum[\text{No.of credits} \times \text{Grade points}]}{\sum \text{No.of credits}}$$

CGPA will be calculated in a similar manner, considering all the courses up to that semester.

11.4 A consolidated Grade Sheet shall be issued to the candidate, after completing all, indicating the CGPA of all the Two years put together.

11.5 Conversion of CGPA into equivalent Percentage of marks:

$$\text{Percentage of Marks} = 9.25 \times \text{CGPA}.$$

12 ELIGIBILITY FOR AWARD OF M.TECH. DEGREE

The M.Tech. Degree shall be conferred on a student who satisfies the following requirements:

12.1 The student who satisfies the conditions for pass in all the subjects including labs of all the years as stipulated in **Clauses 10**.

12.2 **Maximum Time Limit for completion of M.Tech Degree:** A candidate, who fails to fulfil all the academic requirements for the award of the degree within four academic years from the year of admission, shall forfeit his/her seat in M.Tech. Degree.

13 AWARD OF CLASS

A student who becomes eligible for the award of M.Tech. Degree as stipulated in **Clause 11** shall be placed in one of the following Classes.

S.No	Class	CGPA
1	First Class With Distinction	8.0 or more
2	First Class	6.5 or more but less than 8.0
3	Second Class	5.0 or more but less than 6.5

14 AWARD OF RANK

The rank shall be awarded based on the following:

14.1 Ranks shall be awarded in each branch of study for the top ten percent of the students appearing for the Regular Semester End Examinations or the top two students whichever is minimum.

14.2 The Rank shall be awarded only to those students who completes their degree within two academic years.

14.3 For the purpose of awarding rank in each branch, only such students who passed all subjects in the first attempt shall be considered.

15 TRANSITORY REGULATIONS

A student, who is discontinued in any semester, on readmission shall be required to do all the subjects in the curriculum prescribed for such batch of students in which the students joins subsequently.

15.1 A student, who is detained or discontinued in any semester, on readmission shall be required to do all the courses in the curriculum prescribed for such batch of candidates in which the candidates joins subsequently.

15.2 A student, studied under Acharya Nagarjuna University (ANU) regulations, discontinued at the end of the I Year I Semester, shall join in I Year I Semester of Autonomous batch of R-17 regulations.

15.3 A student, studied under ANU Regulations and discontinued at the end of the I year II Semester and also at the subsequent semesters will follow the same regulations of ANU and he / she has to complete the subject by appearing the examinations conducted by Acharya Nagarjuna University. The class will be awarded based on the academic performance of a student in ANU Regulations.

16 CONDUCT AND DISCIPLINE

16.1 Candidates shall conduct themselves within and outside the premises of the institute in a manner befitting the candidates of our institution.

16.2 As per the order of Hon'ble Supreme Court of India, ragging in any form is considered as a criminal offence and is banned. Any form of ragging will be severely dealt with.

16.3 The following acts of omission and / or commission shall constitute gross violation of the code of conduct and are liable to invoke disciplinary measures with regard to ragging.

- a) Lack of courtesy and decorum, indecent behavior anywhere within or outside the campus.
- b) Willful damage of college / individual property.
- c) Possession, consumption or distribution of alcoholic drinks or any kind of narcotics or hallucinogenic drugs.
- d) Mutilation or unauthorized possession of library books.
- e) Noisy and unseemly behavior, disturbing studies of fellow candidates.
- f) Hacking of computer systems (such as entering into other person's areas without prior permission, manipulation and / or damage of computer hardware and software or any other cyber-crime etc.)
- g) Usage of camera / cell phone in the campus
- h) Plagiarism of any nature
- i) Any other acts of gross indiscipline as decided by the academic council from time to time.

16.4 Commensurate with the gravity of offense, the punishment may be reprimand, fine, expulsion from the institute / hostel, debar from examination, disallowing the use of certain facilities of the institute, rustication for a specified period or even outright expulsion from the institute or even handing over the case to appropriate law enforcement or the judiciary.

16.5 For an offence committed in (i) a hostel (ii) a department or in a class room and (iii) elsewhere, the chief warden, the head of the department and the principal respectively, shall have the authority to reprimand or impose fine.

16.6 Cases of adoption of unfair means and / or any malpractice in an examination shall be reported to the principal for taking appropriate action.

16.7 All cases of serious offence, possibly requiring punishment other than reprimand, shall be reported to the academic council.

- 16.8 The institute level standing disciplinary action committee constituted by the academic council shall be the authority to investigate the details of the offence, and recommend disciplinary action based on the nature and extent of the offence committed.
- 16.9 The principal shall deal with any academic problem, which is not covered under these rules and regulations, in consultation with the programmes committee in an appropriate manner, and subsequently such actions shall be placed before the academic council for ratification. Any emergency modification of regulation, approved by the appropriate authority, shall be reported to the academic council for ratification.
- 16.10 "Grievance and Redressal Committee" (General) constituted by the Principal shall deal with all grievances pertaining to the academic / administrative / disciplinary matters.

17 MALPRACTICES

- 17.1 The Principal shall refer the cases of malpractices in internal assessment tests and semester-end examinations to a malpractice enquiry committee constituted by him / her for the purpose. Such committee shall follow the approved scales of punishment. The principal shall take necessary action, against the erring candidates basing on the recommendations of the committee.
- 17.2 Any action on the part of a candidate during an examination trying to get undue advantage or trying to help another, or drive the same through unfair means is punishable according to the provisions contained hereunder. The involvement of the staff, who are in-charge of conducting examinations, valuing examination papers and preparing / keeping records of documents relating to the examinations in such acts (inclusive of providing incorrect or misleading information) that infringe upon the course of natural justice to one and all concerned in the examination shall be viewed seriously and recommended for award of appropriate punishment after thorough enquiry.

18 AMENDMENTS TO REGULATIONS

The College may, from time to time, revise, amend, or change the Regulations, Schemes of Examinations, and / or Syllabus.

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