

ACADEMIC REGULATIONS

M.Tech Programmes

Regulation: R16

Applicable for the students admitted from the Academic year 2016-17 onwards



AUDISANKARA
COLLEGE OF ENGINEERING & TECHNOLOGY
An Autonomous Institute Affiliated to JNTUA, Ananthapuram & Accredited by NAAC with 'A' Grade

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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 APSCHE 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 APSCHE.

R 2.0 Semester wise Course Break-up:

| Sem | Theory | Lab | Total Credits |
|-----------------|--------|------------------------------------|---------------|
| 1 st | 6 | 2+ Technical Seminar | 24 |
| 2 nd | 6 | 2+ Term Paper + Comprehensive Vive | 26 |
| 3 rd | 7 | Internship + Project Work | 4 + 0 |
| 4 th | 4 | Project Work | 20 |
| Total | 23 | 5+Internship+ Project Work | 74 |

R 2.1 Course wise break-up for the total credits:

| | |
|---|------|
| Total Theory Courses : 23 @ 3 credits each | = 69 |
| Total Laboratory Courses : 5 @ 2 credits each | = 15 |
| Technical Seminar : 1 @ 2 credits | = 2 |
| Term Paper : 1 @ 2 credits | = 2 |
| Internship : 1 @ 2 credits | = 2 |
| Compre. Vive-Voce : 1 @ 2 credits | = 2 |
| Project work : 1 @ 20 credits | =20 |

R 3.0 Division of marks for Internal and External assessment:

| Course | Marks of Continuous 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 4.0 Evaluation Methodology:**R 4.1 Theory Course:**

Each theory course will be evaluated for a total of 100 marks, consisting of 40 marks for Continuous assessment and 60 marks for semester end examination. Following is the scheme for continuous assessment:

Scheme for Continuous Assessment:

| Assessment Component | Marks | Schedule | Final Marks |
|--------------------------|-------|--------------------------|--|
| Assignment Test#1 (AT#1) | 5 | After and on Unit#1 | 80% of first best SE + 20% of second best SE (30M) + AT#1 (5M) + AT#2 (5M) |
| Sessional Exam#1 (SE#1) | 30 | At the end of Unit#1 & 2 | |
| Assignment Test#2 (AT#2) | 5 | After and on Unit#3 | |
| Sessional Exam#2 (SE#2) | 30 | At the end of Unit#3 & 4 | |

4.1 (a) Scheme for SE Marks:

Two Sessional examinations (SE) each for 30 marks with the duration of 90 minutes each will be conducted for every theory course in a semester. The SE marks shall be awarded giving a weightage of 80% in the SE in which the student scores more marks and 20% in the remaining SE.

4.1 (b) Scheme for Assignment Test Marks:

Assignment test#1 shall be conducted for 5M at the end of Unit#1 covering the syllabus of unit#1. Assignment test#2 shall be conducted for 5M at the end of Unit#3 covering the syllabus of unit#3. Questions for Assignment test shall address the topics covered/ extension of the covered topics/Case Studies.

R 4.2 Laboratory Course:

- a) Each lab will be evaluated for a total of 75 marks consisting of 25 marks for continuous assessment and 50 marks for semester end lab 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 4.3 Technical Seminar

Technical Seminar shall be conducted in 1st semester. The distribution of internal marks for component of Technical seminar is given below:

Table 5: Distribution of Marks for component of Technical seminar

| S. No. | Criterion | Marks |
|--------|---|-------|
| 1 | Seminar Report & Subject content | 20 |
| 2 | Seminar presentation & Viva – Voce Exam | 30 |

A Technical Seminar shall have two components, one chosen by the student from the course work as an extension and approved by the faculty supervisor. The other component is suggested by the supervisor and can be a reproduction of the concept in any standard research paper or an extension of concept from earlier course work. A hard copy of the information on seminar topic in the form of a report is to be submitted for evaluation along with presentation. The presentation of the seminar topics shall be made before a committee consisting of Head of the department, seminar supervisor and a senior faculty member. Each Technical Seminar shall be evaluated for 100 marks. Technical Seminar component-I for 50 marks and component-II for 50 marks making total 100 marks. **(Distribution of marks for 50: 10 marks for report, 10 marks for subject content, 20 marks for presentation and 10 marks for queries).**

R 5.3 Term Paper

The Term Paper is a self study report and shall be carried during 2nd 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 second 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 4.3 Internship

All the students shall undergo the summer internship during summer break after 2nd semester. The minimum internship period is eight weeks 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 3rd 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 4.6 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 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.
- 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. 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 for zero credits. 20 credits shall be awarded based on the successful submission and approval of thesis at the end of the 4th semester.
- 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%

R5.0 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 semester end examination provided s/he maintains a minimum of 75% overall 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 6.0 Promotion Policies:

- a) A student shall be promoted to subsequent 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 will be promoted from 2nd semester to 3rd semester if s/he fulfills the academic requirements and earning of minimum of 50% credits up to 2nd semester.

R 6.1 Scheme for the award of Grade

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

R 6.2 Graduation requirements:

The following academic requirements shall be met for the award of the MCA. Degree.

- a) Student shall register and acquire minimum attendance in all courses and secure 74 credits. However, the CGPA obtained for the best 71 credits shall be considered for the award of Grade/Class/Division.
- b) A student of a regular program who fails to earn 91 credits within four consecutive academic years from the year of his/her admission with a minimum CGPA of 4.0 shall forfeit his/her degree and his/her admission stands cancelled.

R 6.3 Award of Degree:

a) Classification of degree will be as follows:

- | | |
|--------------------------------|--------------------------------|
| 1. CGPA ≥ 7.5 | : First Class with Distinction |
| 2. CGPA ≥ 6.5 and < 7.5 | : Degree with First Class |
| 3. CGPA ≥ 5.5 and < 6.5 | : Degree with Second Class |
| 4. CGPA ≥ 4.0 and < 5.5 | : Degree with Pass Class |

b) Degree with Distinction will be awarded to those students who clear all the subjects in single attempt and secure a CGPA ≥ 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.

All the candidates who register for the semester end examination will be issued memorandum of grades by the Institute. Apart from the semester wise marks memos, the institute will issue the provisional certificate subject to the fulfillment of all the academic requirements.

R7.0 Re-Admission Criteria:

A Candidate, who is detained in a year/semester due to lack of attendance/credits, has to obtain written permission from the Principal for readmission into the same semester after duly fulfilling all the required norms stipulated by the college in addition to paying the required fee.

R8.0 Conduct & Discipline:-

- (a) Students shall conduct themselves within and outside the premises of the Institute in a descent and dignified manner befitting the students of Audisankara College of Engineering & Technology.
- (b) As per the order of the Honorable Supreme Court of India, ragging in any form is considered a criminal offence and is totally banned. Any form of ragging will be severely dealt with.
- (c) 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.
 - (i) Lack of courtesy and decorum; indecent behavior anywhere within or outside the college campus.

- (ii) Damage of college property or distribution of alcoholic drinks or any kind of narcotics to fellow students / citizens.
- (d) Possession, consumption or distribution of alcoholic drinks or any kind of narcotics or hallucinogenic drugs.
- (e) Mutilation or unauthorized possession of library books.
- (f) Noisy and unruly behavior, disturbing studies of fellow students.
- (g) Hacking in 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.
- (h) Usage of camera /cell phones in the campus.
- (i) Plagiarism of any nature.
- (j) Any other act of gross indiscipline as decided by the college academic council from time to time.
- (k) Commensurate with the gravity of offense, the punishment may be reprimand, fine, expulsion from the institute/ hostel, debarring 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 authorities or the judiciary, as required by the circumstances.
- (l) For an offence committed in (i) a hostel (ii) a department or in a class room and (iii) elsewhere, the chief Warden, the concern Head of the Department and the Principal respectively, shall have the authority to reprimand or impose fine.
- (m) Cases of adoption of unfair means and/ or any malpractice in an examination shall be reported to the principal for taking appropriate corrective action.
- (n) All cases of serious offence, possibly requiring punishment other than reprimand, shall be reported to the Academic council of the college.
- (o) 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.
- (p) The Principal shall deal with any problem, which is not covered under these rules and regulations.

- (q) **“Grievance and Redressal Committee” (General)** constituted by the Principal shall deal with all grievances pertaining to the academic / administrative / disciplinary matters.
- (r) All the students must abide by the code and conduct rules prescribed by the college from time to time.

R9.0 Transitory Regulations:

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

R9.1 A student who is following the JNTUA, Anantapur curriculum/R13 regulations, detained due to lack of credits/ attendance at the end of the any semester of any year, shall join the forthcoming autonomous/ R13 batch (es) (which ever applicable) after fulfilling the requirements. Such students will study all the courses prescribed for that batch, in which the student joins. The student has to clear all backlog subjects if any by appearing in the supplementary examinations of JNTUA/R13 for the award of degree. The class will be awarded based on the academic performance of a student. Such candidates will be considered on par with R13 stream and will be governed by the regulations applicable.

R9.2 A student who is following the JNTUA, Anantapur curriculum/R13, detained due to lack of credits/ attendance at the end of any semester, shall join the autonomous batch at the appropriate semester. Such candidates shall be required to pass in all the courses in the Programme prescribed by concerned BoS for such batch of students, to be eligible for the award of degree. However, exemption will be given in all those courses of the semester(s) of the batch, which the candidate joins now, which he had passed earlier. The student has to clear all his backlog subjects by appearing in the supplementary examinations, conducted by JNTUA, Anantapur and College (Autonomous Stream) for the Award of Degree. The class will be awarded based on the academic performance of a student in the JNTUA Pattern and academic regulations of JNTUA will be followed.

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.