



**Muffakham Jah College of Engineering and Technology**  
(Sultan-ul-uloom Education Society)

***Affiliated to Osmania University, Approved by AICTE***  
**Accredited by NAAC and NBA (Civil, CSE, ECE and Mech)**

Mount Pleasant, 8-2-249 to 267, Road No. 3, Banjara Hills, Hyderabad - 500 034, Telangana, India

***Lighted to Enlighten***



**A UGC Autonomous institution from the year 2025-26**

**M.E. / M.TECH. PROGRAMS**

**(R-25)**

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# **RULES AND REGULATIONS**

**For  
Two Years**

## **M.E. / M.TECH. PROGRAMS**

**(R-25)**

Approved by AICTE & Affiliated to Osmania University  
Courses Accredited by NBA: CE, CSE, ECE, &ME,  
Accredited by NAAC with **A +** Grade

### **M.E. / M.Tech. Programs offered**

**Specializations:**

- i) Structural Engineering
- ii) Computer Science and Engineering
- iii) Embedded Systems and VLSI Design
- iv) CAD/CAM

**Counseling code: TG PGEC/PGECET : MUFK1**

***(With effect from the Academic Year 2025-2026)***

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**ABBREVIATIONS:**

|        |                                                            |
|--------|------------------------------------------------------------|
| AICTE  | All India Council for Technical Education                  |
| BE     | Bachelor of Engineering                                    |
| BoS    | Board of Studies                                           |
| GB     | Governing Body                                             |
| C      | Credits                                                    |
| AC     | Academic Council                                           |
| CGPA   | Cumulative Grade Point Average                             |
| CIE    | Continuous Internal Evaluation                             |
| CP     | Credit Point                                               |
| D      | Drawing                                                    |
| GO     | Government Order                                           |
| GP     | Grade Point                                                |
| L      | Lecture                                                    |
| MOOC   | Massive Open Online Course                                 |
| MJCET  | Muffakham Jah College of Engineering and Technology        |
| NPTEL  | National Programme on Technology Enhanced Learning         |
| P      | Practical                                                  |
| SEE    | Semester End Examination                                   |
| SGPA   | Semester Grade Point Average                               |
| SWAYAM | Study Webs of Active Learning for Young and Aspiring Minds |
| T      | Tutorial                                                   |
| UG     | Under Graduate                                             |
| PG     | Post Graduate                                              |
| UGC    | University Grants Commission                               |

**NOMENCLATURE:**

| S.No. | Keywords                                     | Definitions                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | <b>Governing Body</b>                        | Highest administrative body of the institute. GB is an authority as per the AICTE/UGC regulations and responsible to perform functions as may be necessary and deemed fit for the proper development of the institution.                                                                                                                                                                                                                      |
| 2     | <b>Academic Council</b>                      | Highest academic body of the Institute pertaining to the education and examinations within the Institute. Academic Council is an authority as per the AICTE/UGC regulations and has the right to take decisions on all academic matters including academic research.                                                                                                                                                                          |
| 3     | <b>Academic Year</b>                         | A period that is necessary to complete courses of study. It consists of two consecutive (one odd + one even) semesters.                                                                                                                                                                                                                                                                                                                       |
| 4     | <b>Autonomous Institute</b>                  | An Institute designated as „Autonomous“ by University Grants Commission (UGC), New Delhi in concurrence with the affiliating University, i.e., Osmania University, Hyderabad and Telangana State Government.                                                                                                                                                                                                                                  |
| 5     | <b>Board of Studies</b>                      | An authority, as defined by UGC regulations, constituted by the Principal for each of the department separately. The board is responsible for curriculum design and updates in respect of all the programmes offered by a department.                                                                                                                                                                                                         |
| 6     | <b>Course</b>                                | Usually referred to, as „papers“ is a component of programme. All courses need not carry the same weightage. The learning objectives and learning outcomes are defined for each course. A course is designed to comprise lectures/ tutorials/ laboratory work/ field work/ outreach activities/ project work/ vocational training/ viva/ seminar/ term papers/ assignments/ presentations/ self-study etc. or a combination of some of these. |
| 7     | <b>Course Evaluation</b>                     | Continuous Internal Evaluation (CIE) in the Semester and Semester End Examination (SEE) constitute the main assessments prescribed for each course.                                                                                                                                                                                                                                                                                           |
| 8     | <b>Continuous Internal Evaluation (CIE)</b>  | To be normally conducted by the course instructor which includes class tests, problem solving exercises, group discussions, assignments, quizzes, mini-projects& seminars conducted anytime throughout the semester.                                                                                                                                                                                                                          |
| 9     | <b>Credit</b>                                | A unit by which the course work is measured. One credit is equivalent to one lecture hour of teaching (lecture or tutorial) or two hours of practical / field work per week.                                                                                                                                                                                                                                                                  |
| 10    | <b>Grade Point</b>                           | It is a numerical weight allotted to each letter grade on a 10 – point scale. S = 10, A = 9, B = 8, C = 7, D = 6 and F = 0.                                                                                                                                                                                                                                                                                                                   |
| 11    | <b>Credit Point</b>                          | A product of grade point and number of credits for a course.                                                                                                                                                                                                                                                                                                                                                                                  |
| 12    | <b>Cumulative Grade Point Average (CGPA)</b> | It is a measure of the overall cumulative performance of a student in all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters of the program. It is expressed up to two decimal places.                                                                                                                     |
| 13    | <b>Programme</b>                             | A programme or specialization of a programme, such as Structural Engineering, CAD/CAM etc.                                                                                                                                                                                                                                                                                                                                                    |

|    |                                                        |                                                                                                                                                                                                                                                                                                      |
|----|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14 | <b>Curriculum</b>                                      | Curriculum incorporates all the courses that are offered in a specific programme. It also indicates the planned interactions of students with instructional content, materials and resources.                                                                                                        |
| 15 | <b>Degree</b>                                          | A student who fulfills all the programme requirements is eligible to receive a degree.                                                                                                                                                                                                               |
| 16 | <b>Grading</b>                                         | To be normally done using Letter Grades as a qualitative measure of achievement in each Course: S (Outstanding), A (Excellent), B (Very Good), C (Good), D (Average), F(Fail) based on the marks (%) scored in (CIE+SEE) of the course and conversion to grade is done by relative/absolute grading. |
| 17 | <b>Audit Courses</b>                                   | Compulsory non-credit courses that a student needs to study as prescribed in the programme.                                                                                                                                                                                                          |
| 18 | <b>Massive Open Online Courses (MOOC)</b>              | Open access online courses aimed at providing ways to learn new skills.                                                                                                                                                                                                                              |
| 19 | <b>Revision of Regulations, Curriculum and Syllabi</b> | The institution, from time to time may revise, amend or change the regulations, scheme of examinations, curriculum and syllabi with the approval of the Academic Council.                                                                                                                            |
| 20 | <b>Semester End Examination (SEE)</b>                  | Normally conducted at the institutional level which would cover the entire course syllabi. The SEE questions are to be set from each unit. The questions are framed according to Bloom's Taxonomy.                                                                                                   |
| 21 | <b>Semester</b>                                        | Each semester shall consist of 16 weeks of academic work, excluding semester end examination and evaluation.                                                                                                                                                                                         |
| 22 | <b>Semester Grade Point Average (SGPA)</b>             | It is a measure of performance of work done in a semester. It is the ratio of total credit points secured by a student in various theory and lab courses offered in each semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.           |

## I. PREAMBLE

All the Rules and Regulations, hereinafter specified shall be read as a whole for the purpose of interpretation. Any reference to college in these Rules and Regulations stands for Muffakham Jah College of Engineering and Technology (MJCET). In case of arising a doubt, the interpretation of the Academic Council, the Statutory Body constituted as per UGC regulations of the college is final. The Academic Council has the powers to make amendments to these regulations whenever necessary and shall be approved by Governing Body (GB).

## II. PROGRAMS OFFERED BY THE COLLEGE:

Muffakham Jah College of Engineering and Technology (MJCET) offers a 2-year (4 semesters) M.E. / M.TECH. programme, under AICTE Model curriculum (AMC) and Choice Based Credit System (CBCS) for the following specializations

| S.No. | Program with TGPGECE/PGECET branch code   |
|-------|-------------------------------------------|
| 1     | Structural Engineering (OUSTRC)           |
| 2     | Computer Science and Engineering (OUCSEG) |
| 3     | Embedded Systems and VLSI Design (OUEMVL) |
| 4     | CAD/CAM (OUCADM)                          |

## III. ELIGIBILITY FOR ADMISSION AND ADMISSION PROCEDURE

1. A Bachelor's degree in Engineering/Technology.
2. AMIE degree or similar qualification recognized by the UPSC as equivalent to B.E./B.Tech.
3. Any other qualification which is recognized as equivalent to the Bachelor's degree in Engineering/Technology of Osmania University.
4. For M.Tech. (Computer Science and Engineering), Master's degree holders in Physics, Statistics, Mathematics, or Applied Mathematics, Applied Statistics, Applied Physics, Geophysics and Computer Applications are also eligible. However, all candidates should have valid GATE score in CSE / IT only or any other entrance test conducted by the competent authority.
5. The candidates will be admitted strictly in accordance with the merit secured at the Entrance Examination conducted by the State Government of Telangana, keeping in view of the rules in force regarding the reservations of seats to various categories of candidates.

6. A candidate seeking admission into the M.E./M.Tech. Programme shall apply in the prescribed form as per the notification issued by Convener, PGECET (on behalf of TSCHE) every academic year.
7. The Convener, PGECET appointed by TSCHE will conduct the counseling for admission to PG programmes based on GATE score.
8. After exhausting the eligible GATE qualified candidates, remaining seats will be filled with Non-GATE candidates based on the merit at the Entrance Test conducted by the Convener, PGECET (on behalf of TSCHE).
9. No full time employee shall be admitted to the M.E./M.Tech. Course unless he/she shows proof of having taken leave for the period of the course.
10. All admission for Full time programmes are subject to Reservation rules in force from time to time.

#### **IV. PROGRAM DURATION**

The duration of M.E. / M.Tech. (Full – Time) Programme is 4 semesters, consisting of first three semesters of course work and last two semesters of Dissertation work. The total period of study for the purpose of drawing the scholarship amount (if eligible) shall not exceed 24 months. Each semester shall have 16 weeks of instruction.

#### **V. COURSE REQUIREMENTS AND RULES OF ATTENDANCE**

1. The degree of M.E / M.Tech will be conferred on a candidate who has (a) pursued a regular course of study of not less than three semesters of course work as prescribed hereunder and has passed all examinations in the subjects as prescribed in the Scheme of Examination, and (b) submitted and successfully defended his/her Dissertation at the end of the fourth semester (Regular programme) as prescribed in the Scheme of Examination.
2. A regular course of study for eligibility to appear for any course (subject) for which an examination is conducted at the end of the semester shall mean putting in an attendance of not less than 75% in each of the course (subject) registered during that semester.
3. a. In special cases and for sufficient causes shown, the Academic Council may condone the deficiency in attendance to the extent of 10% on medical grounds, subject to the submission of



medical certificate and payment of condonation fee. Shortage of attendance below 65% shall in no case be condoned.

b. However, in respect of women candidates who seek condonation of attendance due to pregnancy, the Academic Council, on the specific recommendations may condone the deficiency in attendance to the extent of 15% (as against 10% condonation for others) on medical grounds, subject to submission of medical certificate to this effect. Such condonation shall not be availed twice during the program of study.

4. The fee for condonation of attendance on medical grounds shall be Rs.2000/- (Rupees Two Thousand only) Payable through bank challan made in favor of Principal, Muffakham Jah College of Engineering and Technology (MJCET).
5. Attendance of N.C.C / N.S.S Camps or Inter Collegiate or Inter University or Inter State or International matches or debates or Educational Excursions or such other Inter University activities as approved by the authorities involving journeys outside the city in which the college is situated will not be counted as absence.
  - (i) Such absence shall not exceed four (4) weeks per semester of the total period of instruction.
  - (ii) Such leave should be availed with prior permission from the Principal and not to be availed more than twice during the program of study.
  - (iii) Without any prior permission, such leave shall be treated as absence.
  - (iv) While calculating the attendance, the no. of classes not attended in each subject should be deleted in the denominator.
6. If a candidate fails to secure the minimum of 65% attendance required in a course (subject), then he/she shall not be eligible to appear for the Semester End Examination at the end of the semester in the subject. He/she shall be required to re-register again for that particular subject(s)/course(s) when offered next time by the respective department, fulfill the attendance requirement and earn the credits as prescribed in the curriculum.
7. The course requirements will be broadly as per AICTE Model Curriculum for PG Degree Courses in Engineering & Technology, 2018.
8. Instruction in each Theory course, Lab. course and Seminar shall be as per the **Scheme of Instructions described in Table-I.**

9. A student shall not register for more than two courses (subjects) along with the Dissertation Seminar / Dissertation.
10. The registration of the candidates should be made within one week from the date of admission for the I-semester and within one week from the date of commencement of classes for subsequent semesters. For the benefit of those who are unsuccessful in the main examination or for those who wish to reappear in a course(s) [subject(s)] a make-up examination will be conducted. A candidate must register for the main examination at the end of the semester. Failure to register for the main examination makes the candidate ineligible to register for the make-up examination.
11. In the event, the make-up examination results are not declared before commencement of new semester, the candidates may be permitted to register for the course(s) [subject(s)] / Dissertation Seminar / Dissertation conditionally.
12. A student is permitted to register for Dissertation only if there are not more than two subjects as backlog from the previous semesters. Backlog for this purpose shall mean Theory courses / Lab courses / Seminars. A student who has successfully completed all the course requirements except Dissertation may be permitted to work on his Dissertation at any recognized Institution/ R&D Organization with the approval of the Head of the Department and Principal.
13. In the first fortnight of the third semester, a student shall seek a faculty member of the college who will be willing to be his/her supervisor for the dissertation and register for it, failing which, the Head of the Department shall assign a Supervisor. The student may, in addition, have an External Supervisor from the organization to which he / she is attached as a Co-supervisor with the approval of Head of the Department concerned.
14. A student shall submit five copies of the Dissertation prepared in the standard prescribed format and approved by his/her Supervisor on or before the date indicated in the almanac. The format specifications are given in an Appendix to this Rules & Regulations. Detailed Guidelines on documentation of Dissertation work is also given in the Appendix.
15. As per UGC Guidelines, the maximum duration for completing all the requirements for obtaining the M.E./M.Tech Programme shall be (N+2) years of study from the date of admission, where 'N' is the stipulated period of study.

16. For such of those candidates who have not completed the course to an extent of maximum of 2 subjects and/or the Dissertation within the stipulated period, an additional period of one year in continuation may be given to complete the same by the Principal on application duly recommended by the Head of the Department.

## VI. SCHEME OF INSTRUCTION AND EXAMINATION

- i. **The medium of instruction and examination shall be English.**
- ii. Instruction in various courses in each semester of all the four Semesters shall be provided by the College as per the schemes of instruction and syllabi prescribed.
- iii. The distribution of marks/grade for sessional based on **Continuous Internal Evaluation (CIE)** and the **Semester End Examination (SEE)** shall be as follows:

| Subject                | Continuous Internal Evaluation(CIE) | Semester End Examination (SEE) |
|------------------------|-------------------------------------|--------------------------------|
| Each theory subject    | 40*                                 | 60**                           |
| Each practical subject | 50@                                 | ---                            |
| Mini Project           | 50#                                 | ---                            |
| Dissertation I         | 100#                                | ---                            |
| Dissertation II        | ---                                 | 200                            |

### \* Continuous Internal Evaluation (CIE) 40 Marks.

Continuous Internal Evaluation (CIE) shall consist of written examination (Internal Exam– 20 M), Assignment- (A-10M), Project Based Learning 10 Marks.

### Internal Examination (20M):

For theory Courses, two written examinations shall be conducted in each semester as per the academic calendar. Each written examination shall be evaluated for 20 marks.

### Question paper pattern for internal examinations (20 Marks) shall be as follows:

**PART-A : 3 X 2 M= 6 M** -All questions are compulsory

**PART-B: 2 X 7 M = 14 M**

In Part-B two out of three questions have to be answered. **Average of the two internal tests shall be calculated and used as the final internal marks for each course.**

**Remaining 20 marks to be evaluated as below:**

**i. Assignments (10 marks):**

one Assignment for each unit/ Course Outcome is required to be submitted to a maximum of 10 marks and it will be evaluated by the concerned teacher. Average of all assignment marks will be considered

**ii. Project Based Learning (10 Marks):**

Project-based learning (PBL) is an instructional method where students learn by actively engaging in real-world and meaningful projects over an extended period. Instead of memorizing facts, students work collaboratively to investigate complex questions, develop critical thinking, and build skills like problem-solving, teamwork, and self-management. The process involves inquiry, research, and creating a final product or solution that is often presented to an audience

**\*\* Semester End Examination (SEE) 60 Marks**

The SEE shall be conducted at the end of semester for a total of 60 marks and will be of 3 hours duration.

The syllabus for the theory Courses shall be divided into FIVE units and each unit carries equal weightage in terms of marks distribution.

**Question paper pattern for SEE (60Marks) shall be as follows**

Theory question paper of Semester End Examination (SEE) (University examination) will have 7 questions out of which the candidate has to answer 5 questions including the first compulsory question of 14 marks. The first question would consist of 7 (short answer) questions covering the entire syllabus. Remaining four questions would carry 14 marks each covering the entire syllabus.

There could be a maximum of two sub divisions in each of the remaining 6 questions.

Course Outcomes, Blooms Taxonomy levels and Maximum marks are to be indicated against each question both in CIE and SEE question papers

1. The main examinations shall be held at the end of each semester only in the subjects offered during that semester.
2. A student shall appear for the Examination at the end of each semester only in the subjects registered during that semester.
3. A candidate who has been allowed to appear for the main examination and fails in that examination, may be permitted to re-appear in the subject at the subsequent make-up

examination which shall be conducted within one month from the declaration of the results of the main examination.

4. A candidate who is unsuccessful at both the main and make-up examinations or has not appeared at these Examinations in course (s) [subject(s)] shall register for the course (s) [subject (s)] again and pass these core / elective course (s) as the case may be, as per the syllabus (revised or unrevised) during that academic year. Further, the candidate must undergo a regular course of study and secure a minimum 75% attendance for eligibility to appear at the Semester End Examination. The Continuous Internal Evaluation (CIE) marks earned during earlier year stands cancelled. If the subject in which the candidate has failed is an elective, a new elective may be chosen if required. If a core course (subject) has been dropped in the curriculum, then a core course (subject) to be taken in place of the core course in which the candidate has failed and it will be specified by the Faculty Adviser / Course Coordinator in consultation with the Head of the Department.
5. The distribution of Marks/Grades for the Continuous Internal Evaluation (CIE) and the Semester End Examination (SEE) (University Examination) shall be as detailed in the Scheme of Examination.
6. Laboratory Courses and Seminars listed in the **Scheme of Instructions and Examination (Table I)** are Departmental requirements having only Continuous Internal Evaluation (CIE). However, the candidate has to complete the same by securing Minimum qualifying marks.
7. During Semester III of Regular Programme, student is expected to present Seminar on Dissertation topic covering progress of Dissertation. The evaluation of Dissertation-I consists of 100 marks, of which 50 marks to be awarded by supervisor and 50 marks to be awarded by internal Viva-voice committee comprising Head of Department and two Internal Faculty Members as examiners.
8. During Semester IV of regular programme, the candidate will continue his/her dissertation work as Dissertation II and complete it by the end of semester. The candidate should examine his/her dissertation work checked for plagiarism. The candidate can submit his/her dissertation when the similarity index is less than 30%.

9. A student who has successfully completed all the programme requirements, is eligible to submit the M.E / M.Tech. Dissertation for its evaluation as per the procedure/norms given in clause 7.
10. Students who fail to submit their Dissertation and complete the examination formalities at the end of fourth semester (as per the almanac notified) need to re-register for their dissertation work in the following semester (in no case later than the N+2 the period of course duration i.e, 4 years for Regular). They will have to pay the prescribed fee for re-registration of Dissertation work every semester till the completion of their Dissertation work.

## **VII. PROJECT / DISSERTATION GUIDELINES:**

1. The candidate who have passed all the courses and Departmental requirements has to present the Dissertation-II to the internal Viva-Voce Committee. The Dissertation shall be scrutinized and evaluated by the viva-voce committee consisting of the Head of Department, two Internal Examiners and Supervisor of the candidate.
2. The Viva-Voce committee will give a comprehensive report indicating the adequacy or otherwise of the Dissertation-II. The candidate will have to revise the Dissertation-II as per recommendations of the vice-voce committee and submit the final copy within two weeks.
3. Within four weeks from the date of submission, the external viva-voce will be scheduled in consultation with the External examiner. The external Viva-Voce Committee consists of the Head of Department, External Examiner and Supervisor of the candidate. The evaluation of Dissertation-II for maximum of 200 marks will be done as per the guidelines given below:
  - i) 70 Marks are allocated for quality of Dissertation work covering Literature review, Innovation/Originality, Research Methodology and Relevance/Practical applications.
  - ii) 70 Marks are allocated for Report writing / Documentation
  - iii) 30 Marks are allocated for quality and clarity of presentation of Dissertation work.
  - iv) 30 Marks are provided for candidate's performance in terms of his/her ability to defend the work, his/her ability to answer the queries raised during Viva-Voce examination and overall subject knowledge.

**TABLE-I**  
**M.E./M.Tech. Four Semester Program Scheme of Instruction and Evaluation**

| M.E./M.Tech. Four Semester Program Scheme of Instruction and Evaluation |             |                            |                        |   |    |                       |     |         |
|-------------------------------------------------------------------------|-------------|----------------------------|------------------------|---|----|-----------------------|-----|---------|
| S.No.                                                                   | Course Code | Course Name                | Contact hours per week |   |    | Scheme of Examination |     | Credits |
|                                                                         |             |                            | L                      | T | P  | CIE                   | SEE |         |
| SEMESTER-I                                                              |             |                            |                        |   |    |                       |     |         |
| 1                                                                       |             | Core-I                     | 3                      |   |    | 40                    | 60  | 3       |
| 2                                                                       |             | Core-II                    | 3                      |   |    | 40                    | 60  | 3       |
| 3                                                                       |             | Programme Elective-I       | 3                      |   |    | 40                    | 60  | 3       |
| 4                                                                       |             | Programme Elective-II      | 3                      |   |    | 40                    | 60  | 3       |
| 5                                                                       |             | Research Methodology & IPR | 2                      |   |    | 40                    | 60  | 0       |
| 6                                                                       |             | Audit Course – I           | 2                      | 1 |    | 40                    | 60  | 0       |
| 7                                                                       |             | Laboratory-I               |                        |   | 3  | 50                    | -   | 1.5     |
| 8                                                                       |             | Laboratory-II / Seminar I  |                        |   | 3  | 50                    | -   | 1.5     |
| TOTAL                                                                   |             |                            | 16                     | 1 | 6  | 340                   | 360 | 18      |
| SEMESTER-II                                                             |             |                            |                        |   |    |                       |     |         |
| 1                                                                       |             | Core-III                   | 3                      |   |    | 40                    | 60  | 3       |
| 2                                                                       |             | Core-IV                    | 3                      |   |    | 40                    | 60  | 3       |
| 3                                                                       |             | Programme Elective-III     | 3                      |   |    | 40                    | 60  | 3       |
| 4                                                                       |             | Programme Elective-IV      | 3                      |   |    | 40                    | 60  | 3       |
| 5                                                                       |             | Audit Course-II            | 2                      | 1 |    | 40                    | 60  | 0       |
| 6                                                                       |             | Mini-Project with Seminar  |                        |   | 6  | 50                    | -   | 3       |
| 7                                                                       |             | Laboratory III             |                        |   | 3  | 50                    | -   | 1.5     |
| 8                                                                       |             | Laboratory IV / Seminar-II |                        |   | 3  | 50                    | -   | 1.5     |
| TOTAL                                                                   |             |                            | 14                     | 1 | 12 | 350                   | 300 | 18      |
| SEMESTER-III                                                            |             |                            |                        |   |    |                       |     |         |
| 1                                                                       |             | Programme Elective – V     | 3                      |   |    | 40                    | 60  | 3       |
| 2                                                                       |             | Open Elective              | 3                      |   |    | 40                    | 60  | 3       |
| 3                                                                       |             | Dissertation – I           |                        |   | 20 | 100                   |     | 10      |
| TOTAL                                                                   |             |                            | 6                      |   | 20 | 180                   | 120 | 16      |
| SEMESTER-IV                                                             |             |                            |                        |   |    |                       |     |         |
| 1                                                                       |             | Dissertation-II            |                        |   | 32 |                       | 200 | 16      |
| GRAND TOTAL                                                             |             |                            |                        |   |    |                       |     | 68      |

CIE : Continuous Internal Evaluation      SEE : Semester End Examination

#### Audit Courses-I & II

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by Yoga
8. Personality Development through Life Enlightenment skills

#### Open Electives

1. Business Analysis
2. Industrial Safety
3. Operation Research
4. Cost Management of Engineering Projects
5. Composite Materials
6. Waste to Energy

**VIII. Grading System**

- a. Grades are awarded based on the combined marks secured in the Semester End Examination (SEE) (University Exam) (Maximum 60%) and Continuous Internal Evaluation (CIE) (Maximum 40%) as per the criteria stated in the following Table:

| Academic Performance | Letter Grade | Grade Points |
|----------------------|--------------|--------------|
| 90% ≤ Marks ≤ 100%   | S            | 10           |
| 80% ≤ Marks < 90%    | A            | 9            |
| 70% ≤ Marks < 80%    | B            | 8            |
| 60% ≤ Marks < 70%    | C            | 7            |
| 50% ≤ Marks < 60%    | D            | 6            |
| 0% ≤ Marks < 50%     | F            | 0            |

- i) The Memorandum of marks of a candidate will reflect the grade secured by him/her as per the grading criteria described in the Table above
  - ii) There is no minimum marks criteria for the Continuous Internal Evaluation (CIE) for theory course (s) / [subject(s)]
  - iii) A minimum Cumulative Grade Point Average (CGPA) of 5 is required for the award of Degree. The consolidated memorandum of marks will reflect the credits / grade scored in each course (subject).
- b. **Semester Grade Point Average (SGPA) & Cumulative Grade Point Average (CGPA) Calculation:**

- (a) A student is said to have earned credits if he/she secures letter grade 'D' and above

$$(b) \text{ SGPA} = \frac{\sum [\text{Letter Grade Point} \times \text{Credits}]}{\sum \text{Credits}}$$

SGPA is calculated upto second decimal point

SGPA is calculated only when all subjects in that semester are Cleared / Passed

$$(c) \text{ CGPA} = \frac{\sum [(\text{SGPA}) \times (\text{Total Credits})]}{\sum (\text{Total Credits})}$$

CGPA at a given point of Semester is calculated upto second decimal point.

CGPA is calculated only when total credits earned are equal to total credits up to a Semester in which the candidate has last appeared for Semester End Examination

- (d) Memorandum of Marks should indicate total number of credits and total number of credits earned up to a point of Semester



## IX. AWARD OF DEGREE

1. The degree of Master of Engineering/Technology will be conferred on candidate who has pursued a regular program of study of two academic years as hereinafter prescribed in the scheme of instruction and has passed all the examinations as prescribed in the scheme of evaluation.
2. In case of hearing impaired, orthopedically handicapped and visually challenged candidates, 10% reduction in pass marks in each subject is admissible as per G.O. Ms. No.150, dated 31-08-2006.
3. A candidate desires to have recounting / revaluation can apply for it as per the University norms and notification of Examination Branch.
4. A candidate can also obtain a photocopy of the corrected answer book of the theory subjects SEE only on payment of Rs.2000/- (Rupees One thousand only) for each subject, drawn in favour of Principal, MJCET.
5. A candidate can also obtain a photocopy of the corrected answer book of the theory courses of SEE only against payment. For more details in this regard, contact the Examination Branch after the declaration of results.
6. After obtaining the photocopy of the corrected answer book of the theory subjects of SEE, the candidate can go for challenge of valuation within 10 days, on payment of the prescribed fees. The answer book of the candidates in such cases will be referred to an examiner outside the college. In case the candidate's claim is found to be correct, 90% of the fees paid by the candidate will be refunded.
7. A candidate shall be deemed to have fully passed in the subjects he/she has registered during the semester, if he/she secures not less than the minimum marks prescribed below:

### Minimum Qualifying Marks

| Course particulars |                        |            | Minimum Marks / Grade |
|--------------------|------------------------|------------|-----------------------|
| (i)                | Each Theory Course     | (CIE+ SEE) | 50% - 'D' Grade       |
| (ii)               | Each Laboratory Course | (CIE)      |                       |
| (iii)              | Each Seminar           | (CIE)      |                       |
| (iv)               | Dissertation Seminar   | (SEE)      |                       |
| (v)                | Dissertation           | (SEE)      |                       |

## X. AWARD OF GOLD MEDAL

- i. A Student securing the highest CGPA in a **single attempt** (in all the semesters) is eligible for the award of Gold Medal.
- ii. A readmitted student is not eligible for Gold Medal.

## **XI. GENERAL RULES OF EXAMINATIONS**

1. Application for permission to appear in any examination shall be made available online through Muffakham Jah College of Engineering and Technology (MJCET) Website ([www.mjcollege.ac.in](http://www.mjcollege.ac.in)) as per the notification.
2. When a candidate's application is found in order and he/she is eligible to appear in Semester End Examination (SEE), the Examination Branch, Muffakham Jah College of Engineering and Technology (MJCET) shall furnish him with a Hall-Ticket, enabling the candidate to appear in the Semester End Examination. The Hall-Ticket shall have to be produced by the candidate before he/she is admitted to the premises where the examination is likely to be held.
3. A Candidate who does not present himself/herself for examination for any reason whatsoever, except shortage of attendance, shall not be entitled to claim refund of the whole or part of the examination fee, for subsequent examination(s).
4. A Candidate, after he/she has been declared successful in all the examinations, shall be given a provisional certificate stating the year of examination, the branch in which he/she was examined and the overall grade secured. However, the candidates have to obtain a degree certificate (convocation) from the Examination Branch, Osmania University, Hyderabad.
5. No candidate shall be allowed to put in attendance for a program or appear at examinations for different degrees and different faculties simultaneously.

## **XII. TRANSITORY REGULATIONS**

- a. Whenever a course or scheme of instruction is changed in a particular semester/year, two more examinations immediately following there after shall be conducted according to the old syllabus/regulations, provided the content in the course has changed more than 40%.
- b. Candidates not appearing at the examinations or failing in them shall take the examination subsequently according to the changed syllabus/regulations.

### **XIII. MAL PRACTICE AND AWARD OF PUNISHMENT**

**Regulations under Ordinance no. vii, Conduct of Examinations Part-v Schedule on the Nature of Malpractice and Award of Punishment.**

“**Examination**” in this context refers to all the papers taken by the candidate on the same hall-ticket.

#### **MALPRACTICE AND AWARD OF PUNISHMENT**

| <b>S. No.</b> | <b>Malpractice</b>                                                                                                                                                                                                                                                                                              | <b>Award of Maximum Punishment</b>                                                                                                                                            |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1             | Possession of the prohibited (written or printed) papers, books, notes during the examination period but which were not used.                                                                                                                                                                                   | Shall be debarred from appearing at the subsequent papers of the examination apart from cancelling the result of the examination in which he/she had indulged in malpractice. |
| 2             | Matter relevant to the examination being written on any part of the body or on the clothes worn or on the instruments, wrappings, etc.                                                                                                                                                                          | -do-                                                                                                                                                                          |
| 3             | Attempting to take help from any prohibited papers, notes, written or printed matter, writings on the walls, furniture and attempting to take help from or giving help to others regarding the answer to any question or questions of the examination paper.                                                    | -do-                                                                                                                                                                          |
| 4             | Taking help from or consulting the prohibited written or printed material; consulting and/or taking help from or helping other examinee during the examination period inside the examination hall or outside it; with or without their consent or helping the other candidate to receive help from anyone else. | -do-                                                                                                                                                                          |
| 5             | An examinee who attempts to disclose his/her identity to the paper valuer by writing his/her roll number at a place other than the place prescribed for it or by writing his/her name or any coded message or an examinee who makes an appeal to the paper valuer in the answer book.                           | Cancelling the result of that paper                                                                                                                                           |

|    |                                                                                                                                                    |                                                                                                                                                                                                                   |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6  | Writing, such as invocation of God's name in any form                                                                                              | To be ignored                                                                                                                                                                                                     |
| 7  | Writing on the question paper or other papers; the answer to questions, rough work, etc., with no intention of passing it on to another examinee.  | To be warned not to do so                                                                                                                                                                                         |
| 8  | Using abusive and obscene language in the answer book                                                                                              | Cancellation of the result of that paper                                                                                                                                                                          |
| 9  | Examinee allowing or destroying the prohibited material found in his possession or acting in any other manner with a view to destroy the evidence. | Cancellation of the result of all examinations taken or proposed to be taken during that session and prohibiting his/her admission to continuation in any course of the University for a period of one year.      |
| 10 | Refusing to obey the instructions of the Chief Superintendent/Invigilator.                                                                         | Cancellation of the result of that paper                                                                                                                                                                          |
| 11 | Smuggling an answer book/ additional answer book/ matter into or out of the examination hall.                                                      | Cancellation of the result of all examinations taken or proposed to be taken during that session and prohibiting his / her admission to or continuation in any course of the University for a period of the year. |
| 12 | Inserting or removing from the answer book/ additional answer book of any sheet.                                                                   | -do-                                                                                                                                                                                                              |
| 13 | Substituting wholly or partly an answer book/additional answer book.                                                                               | -do-                                                                                                                                                                                                              |
| 14 | Impersonation, even at a single examination.                                                                                                       | To be dealt with as per the Law.                                                                                                                                                                                  |
| 15 | Cases of examinee when conspiring to the interchange in Roll Nos.                                                                                  | Cancellation of the result of all examinations taken or proposed to be taken during that session and prohibiting their admission or constitution in any course of the University for a period of one year.        |
| 16 | Creation of disturbance or otherwise misbehaving in and around the examination hall during or before the examination.                              | Cancelling the results of all examinations taken or proposed to be taken during that session and prohibiting admission into or continuation in any course of study for a period of two years.                     |
| 17 | Guilty of assaulting/abusing, intimidating any person connected with the examination work at any time, before, during or after the examination.    | Cancelling the result of all examinations taken or proposed to be taken during that session and the next session and prohibiting admission into or continuation in any course for a period of two years.          |
| 18 | Punishments for malpractices not defined here would be recommended on the merits of the individual cases by the malpractices committee.            |                                                                                                                                                                                                                   |

**1) Format of M.E./M.Tech. Dissertation**



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**Department of <Name of the Department>  
<Name of the College>  
Osmania University**

## **Certificate**

This is to certify that the Dissertation work entitled < Title of the Project Work > submitted by  
< Mr. / Ms. Name of the student (Roll No.) >, a student of Department of < Name of the Department  
>, < Name of the College > in partial fulfillment of the requirements for the award of the degree of  
master of < Engineering / Technology > with < Name of the Specialization > as specialization is a  
record of the bonafide work carried out by < him / her > during the academic year < Academic        year  
>.

Date of submission of thesis

Signature of the Supervisor

< Name >

< Designation >

< Address >

Signature of Head of the Dept.

< Name >

< Designation >

< Address >

Seal

## **Declaration**

I declare that the work reported in the Dissertation entitled < Title of M.E. / M. Tech. Thesis > is a record of the work done by me in the Department of < Name of the Department, Place/Organization>. No part of the thesis is copied from books / journals / internet and wherever referred, the same has been duly acknowledged in the text. The reported data are based on the Dissertation work done entirely by me and not copied from any other source.

Signature of the Student

## **2 Guidelines for preparing M.E. / M.Tech. Dissertation**

The Thesis must be presented on A-4 paper approximately 11 Inches / 9 Inches or 27.9 cm / 22cm and duly hard bound.

### **I. General:**

1. The title of the thesis should be concise and clearly convey the work presented.
2. Lists of figures, tables, variables, symbols, acronyms etc. should be included, before the start of the first chapter.
3. The abstract should not be more than 500 words.
4. A declaration stating the originality of work / results should be appended.
5. Any work which amounts to plagiarism should be totally avoided.
6. The entire thesis should be free from grammatical and spelling mistakes.
7. The total number of pages of the thesis should not normally exceed 250.
8. Any downloaded matter of tables or equations, if used, should be rewritten, and the source mentioned.
9. The first Chapter should clearly reflect the importance and objectives of the thesis.
10. A brief literature review may be included in the first or second chapter.
11. The organization of the thesis may be mentioned in the first chapter.
12. The pages should be numbered starting from the first page of the first chapter.
13. The pages before the first chapter should be numbered in small Roman numerals.
14. The headings and sub-headings should be properly numbered chapter wise.
15. Extension work may be indicated in the conclusion.
16. Uniform font and size should be followed for the titles of all chapters.
17. Uniform Indent should be followed throughout the text of the thesis.
18. Similarly uniformity should be maintained for all headings and sub headings.
19. Subscripts and superscripts should be adopted properly.

## **II. Formatting**

1. The text should be presented at one and a half spacing.
2. The font size of the main text should be uniformly 12 points throughout the thesis.
3. Left justification or left and right justification can be used for main text.
4. The left margin should be 30 -40 mm and the right. Top and bottom margins should be 25 to 30 mm.

## **III. References**

1. The references should be numbered from the first chapter to the last chapter in ascending order and the corresponding number should be shown in square brackets wherever required.
2. The reference should be listed with details after the last chapter.
3. All the references listed should be referred in the main text.
4. The references could be technical papers of Journals, conferences, symposia, workshops and seminars, technical reports, manuals, text books and software.
5. The important contents of referred materials should be in the following order: Name (s) of the author (s), Title of the paper, publication title, year of publication, Vol, No.,pp.

## **IV. Appendices**

1. Important programs, derivations, data and any other useful material may be shown in the appendices with proper numbering.
2. The appendices should be numbered in capital Roman numbers or capital letters from the first chapter to the last chapter in ascending order. (eg. Appendix 1 or Appendix A)
3. The appendices should be shown with details after the last chapter.
4. All the appendices should be referred in the main text.

## **V. Equations**

1. All the equations used in the thesis should be properly numbered chapter wise (eg. Eq, 3.1 or)
2. The equations shown should be clearly referred and identified as Eq. or eq. followed by equation number.
3. Repetition of equations should be avoided. If needed, it may be referred by its number.
4. Equations should never be mixed up with main text. It should be shown as separate object and 'Equation Editor' can be used.



## **VI. Tables**

1. The tables shown in the thesis should be clearly referred and explained and they should be numbered properly.
2. At the top of the table, it should be identified as table, followed by table number (ex. Table 3.1)
3. The caption of the table should be written clearly, precisely and briefly at the same position.
4. A spacing of at least 3 points should be taken for the first line of each cell.
5. Table size should not cross the limits of the set page margins.
6. The font size should be less than or equal to the font size of main text.

## **VII. Figures**

1. The figures shown in the thesis should be clearly referred and explained. They should be numbered properly chapter wise.
2. At the bottom of the figure, it should be identified as fig. or figures, followed by figure number (ex. Fig 3.1 or figure 3.1).
3. The caption of the figure should be written clearly, precisely and briefly at the same position.
4. All the graphs and flowcharts should be identified and presented the same way as figures.
5. All the figures and graphs should be drawn clearly, so that variables, units, markings and details are dissembled.
6. All the drawings, text boxes, images and details related to a particular figure should be grouped together.
7. The font size used should be less than or equal to the font size of main text.
8. The figure size should not exceed the set page margins.



