# ACADEMIC REGULATIONS

## Effective from the Academic Year 2022-23 onwards

## MR22 Regulations

### For

# M. Tech. Two Year Degree Course

# MALLA REDDY ENGINEERING COLLEGE
## (Autonomous)

(An UGC Autonomous Institution, Approved by AICTE and Affiliated to JNTUH, Hyderabad)
Recognized under section 2(f) &12 (B) of UGC Act 1956, Accredited 3rd time by NAAC with 'A++' Grade, NIRF Rank Band 201-250,
ARIIA Band Performer, NBA Tier-I Accredited (B.Tech.- CE, EEE, ME, ECE &CSE, M.Tech. - SE, EPS, TE)
Maisammaguda (H), Dhulapally (Post Via Kompally), Medchal - Malkajgiri District, Secunderabad– 500100.
Telangana State. e-mail: principal@mrec.ac.in, Website: www.mrec.ac.in

**1.0**    **Post-Graduate Degree Programmes in Engineering & Technology (PGP in E&T) Malla Reddy Engineering College (Autonomous) (MREC-A)** offers **Two** Year (**Four** Semesters) full-time **Master of Technology (M. Tech.)** Post Graduate programmes, under Choice Based Credit System (CBCS) in different branches of Engineering and Technology with different specializations.

**2.0**    **Eligibility for Admissions:**

**2.1**    Admission to the above programme shall be made subject to eligibility, qualification and specialization as prescribed by the Affiliating University from time to time. Admissions shall be made on the basis of merit/rank obtained by the candidates at the qualifying Entrance Test conducted by the Government of Telangana or on the basis of any other order of merit as approved by the University, subject to reservations as laid down by the Govt. from time to time.

**2.2**    The medium of instructions for all PG Programmes will be **ENGLISH** only.

**3.0**    **M.Tech. Programme (PGP in E&T) Structure and Award of Degree:**

**3.1**    **The M.Tech. Programmes in E & T are of Semester pattern, with Four Semesters consisting of Two academic years, each academic year having Two Semesters (First/ Odd and Second/ Even Semesters). Each Semester shall be of 22 weeks duration (inclusive of Examinations), with a minimum of 90 instructional days per Semester.**

**3.2**    A student shall be declared eligible for the award of the M.Tech. Degree, if the student pursues a course of study in not less than two and not more than four academic years. However, the student is permitted to write the examinations for two more years after four academic years of course work, failing which the student shall forfeit the seat in M. Tech. programme.

**3.3**    The student shall register for all **68** credits and secure all the **68** credits.

**3.4**    **UGC/AICTE** specified definitions/ descriptions are adopted appropriately for various terms and Abbreviations used in these PG academic regulations, as listed below:

**3.4.1**    **Semester Scheme**
Each Semester shall have 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) are taken as 'references' for the present set of Regulations. The terms 'SUBJECT' and 'COURSE' imply the same meaning here and refer to 'Theory Subject', or 'Lab Course', or 'Design/ Drawing Subject', or 'Seminar', or 'Project', or "Technical Paper Writing" as the case may be.

**3.4.2**    **Credit Courses**
All subjects/courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/course in an L: T: P: C (Lecture

Periods: Tutorial Periods: Practical Periods: Credits) structure based on the following general pattern:

- One credit for one hour/week/semester for theory/lecture (L) / tutorials (T) courses
- One credit for two hours/ week/semester for laboratory/ practical (P) courses

Other student activities like study tour, guest lecture, conference/workshop participations, technical paper presentations, and identified mandatory/audit courses, if any, will not carry credits.

### 3.4.3 Subject/Course Classification

All subjects/courses offered for the Post-Graduate Programme in E & T (M.Tech Degree Programme) are broadly classified as follows. The Institution has followed in general, the guidelines issued by AICTE/UGC.

| S. No | Broad Course Classification | Course Group/ Category | Course Description |
|---|---|---|---|
| 1 | Core Courses (CC) | PC- Professional Core | Includes subjects related to the parent discipline/ department/ branch of Engineering |
| | | Project Work | M.Tech Project / Dissertation |
| | | Seminar | Seminar/ Colloquium based on core contents related to parent discipline/ department/ branch of Engineering |
| 2 | Elective Courses (EC) | PE – Professional Electives | Includes elective subjects related to the parent discipline/ department/ branch of Engineering |
| | | OE – Open Electives | Elective subjects which include inter-disciplinary subjects or subjects in an area outside the parent discipline/ department/ branch of Engineering |
| 3 | Audit Courses (AC) | Audit Courses | These courses are non-credit courses without evaluation. |
| **Total number of Credits – 68 credits** | | | |

### 3.4.4 Courses of Study:

The following specializations are offered at present for the M. Tech. programme of study.

| S.No. | Dept. | Specialization Code | Specialization | Intake |
|---|---|---|---|---|
| 1 | CE | 11 | Structural Engineering (SE) | 30 |
| 2 | EEE | 24 | Electrical Power Systems (EPS) | 18 |
| 3 | ME | 31 | Thermal Engineering (TE) | 12 |
| 5 | ECE | 44 | VLSI and Embedded Systems | 18 |
| 6 | CSE | 51 | Computer Science and Engineering (CSE) | 12 |

Any other programme as approved by the University from time to time.

**4      Course Registration:**

**4.1**    A 'Faculty Advisor or Counselor' shall be assigned to each student, who will advise him on the Post Graduate Programme (PGP), its Course Structure and Curriculum, Choice/ Option for Subjects/ Courses, based on his competence, progress, pre-requisites and interest.

**4.2**    The Academic Section of the College invites 'Registration Forms' from students within 15 days from the commencement of class work for the first semester through 'ON-LINE SUBMISSIONS', ensuring 'DATE and TIME Stamping'. The ON-LINE Registration Requests for any 'SUBSEQUENT SEMESTER' shall be completed BEFORE the commencement of SEEs (Semester End Examinations) of the 'CURRENT SEMESTER'.

**4.3**    A Student can apply for ON-LINE Registration, ONLY AFTER obtaining the 'WRITTEN APPROVAL' from the Faculty Advisor, which should be submitted to the College Academic Section through the Head of Department (a copy of it being retained with Head of Department, Faculty Advisor and the Student).

**4.4**    If the Student submits ambiguous choices or multiple options or erroneous entries during ON-LINE Registration for the Subject(s) / Course(s) under a given/ specified Course Group/ Category as listed in the Course Structure, only the first mentioned Subject/ Course in that Category will be taken into consideration.

**4.5**    Subject/ Course Options exercised through ON-LINE Registration are final and CANNOT be changed, nor can they be inter-changed; further, alternate choices will also not be considered. However, if the Subject/ Course that has already been listed for Registration (by the Head of Department) in a Semester could not be offered due to any unforeseen or unexpected reasons, then the Student shall be allowed to have alternate choice - either for a new Subject (subject to offering of such a Subject), or for another existing Subject (subject to availability of seats), which may be considered. Such alternate arrangements will be made by the Head of Department, with due notification and time-framed schedule, within the FIRST WEEK from the commencement of Class-work for that Semester.

**5      Attendance Requirements:**
       The programmes are offered on a module basis with each subject/course being considered as a module.

**5.1**    Attendance in all classes (Theory/Laboratories/Seminar/Project Work) is compulsory. The minimum required attendance in each theory / Laboratory etc. is 75% including the attendance of mid-term examination **/** Laboratory and the days of attendance in sports, games, NCC and NSS activities for appearing for the Semester End Examination (SEE). A student shall not be permitted to appear for the Semester End Examinations (SEE) if his attendance is less than 75%.

**5.2**    Condonation of shortage of attendance in each subject up to 10% (65% and above and below 75%) in each semester shall be granted by the College Academic Committee (CAC).

**5.3**    Shortage of Attendance below 65% in each subject shall not be condoned.

**5.4**    Students whose shortage of attendance is not condoned in any subject are not

eligible to write their Semester End Examination of that subject and their registration shall stand cancelled.

**5.5** A stipulated fee prescribed by the CAC, shall be payable towards Condonation for shortage of attendance.

**5.6** A Candidate shall put in a minimum required attendance in at least three (3) theory subjects in I Year I semester for promoting to I Year II Semester. In order to qualify for the award of the M.Tech. Degree, the candidate shall complete all the academic requirements of the subjects, as per the course structure.

**5.7** A student shall not be promoted to the next semester unless the student satisfies the attendance requirement of the present Semester, as applicable. The student may seek readmission into that semester when offered next. If any candidate fulfills the attendance requirement in the present semester, the student shall not be eligible for readmission into the same class.

## 6 Academic Requirements:

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item 5.

6.1 A candidate shall be deemed to have secured the minimum academic requirement in a subject if he secures a minimum of 40% of marks (24 out of 60) in the Semester End Examination, 40% of Marks in the internal examinations (16 out of 40 marks allotted for CIE); and a minimum of 50% of the total marks in the Semester End Examination and Continuous Internal Evaluation taken together. In case the candidate does not secure the minimum academic requirement in any subject he has to reappear for the Semester End Examination in that subject. A candidate shall be given one chance to re-register for the subject if the internal marks secured by the candidate are less than 50% and failed in that subject. This is allowed for a maximum of three subjects and should register within two weeks of commencement of that semester class work. In such a case, the candidate must re-register for the subjects and secure the required minimum attendance. The candidate's attendance in the re-registered subject(s) shall be calculated separately to decide upon the eligibility for writing the Semester End Examination in those subjects. In the event of the student taking another chance, the student's Continuous Internal Evaluation (CIE) marks and Semester End Examination (SEE) marks obtained in the previous attempt stands cancelled.

6.2 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to seminar, if student secures not less than 50% marks (i.e. 50 out of 100 allotted marks). The student would be treated as failed, if student (i) does not submit a seminar report or does not make a presentation of the same before the evaluation committee as per schedule or (ii) secures less than 50% marks in Mini Project with seminar evaluation. The failed student shall reappear for the above evaluation when the notification for supplementary examination is issued.

6.3 If the student secured 'F' grade in any subject he/she can apply for recounting / revaluation by paying prescribed fee. If the student is not satisfied after the results declaration of recounting / revaluation he/she can apply for challenge valuation with the prescribed fee. College appoints a faculty member; student can bring another faculty member who taught the respective subject at least once (proof should be provided). The faculty member should be from any autonomous college affiliated to JNTUH or JNTUH constituent colleges.

## 7  Evaluation - Distribution and Weightage of Marks:

The performance of a student in each semester shall be evaluated subject- wise (irrespective of credits assigned) for a maximum of 100 marks.

**7.1** The performance of a student in every subject/course (including practicals and Project) will be evaluated for 100 marks each, with 40 marks allotted for CIE (Continuous Internal Evaluation) and 60 marks for SEE (Semester End-Examination). The Continuous Internal Evaluation shall be made based on the average of the marks secured in the two Mid-Term Examinations conducted, first Mid-Term examinations in the middle of the Semester and second Mid-Term examinations during the last week of instruction.

**7.2** In CIE, for theory subjects, during a semester, there shall be two mid-term examinations. Each MidTerm examination consists of two parts **i) Part – A for 10 marks, ii) Part – B for 20 marks** with a total duration of 2 hours as follows:

1.   Mid-Term Examination for 30 marks:

   a.   Part - A: Objective/quiz paper for 10 marks.

   b.   Part – B: Descriptive paper for 20 marks.

| Mid - Term Examination – PG | | | | |
|---|---|---|---|---|
| **Part** | **Type of Questions** | **No. of Questions** | **Marks per Question** | **Total** |
| Part - A | Multiple – Choice Questions | 20 | 0.5 | 10 |
| Part - B | Internal choice questions (Module-wise) | 5 | 4 | 20 |
| **Mid Term Exam Total** | | | | **30** |

The average of the two Mid Term Examinations shall be taken as the final marks for Mid Term Examination (for 30 marks).

The remaining 10 marks of Continuous Internal Assessment (out of 40) are distributed as:

2.   Assignment for 5 marks. (Average of 2 Assignments each for 5 marks)

3. Subject Viva-Voce/PPT/Poster Presentation/ Case Study on a topic in the concerned subject for 5 marks.

While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus.

Five (5) marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The average of the two assignments shall be taken as the final marks for assignment (for 5 marks).

Subject Viva-Voce/PPT/Poster Presentation/ Case Study on a topic in the concerned subject for 5 marks before II Mid-Term Examination.

- The Student, in each subject, shall have to earn 40% of marks (i.e. 16 marks out of 40 marks) in CIE, 40% of marks (i.e. 24 marks out of 60) in SEE and Overall 50% of marks (i.e. 50 marks out of 100 marks) both CIE and SEE marks taking together.

The student is eligible to write Semester End Examination of the concerned subject, if the student scores ≥ 40% (16 marks) of 40 Continuous Internal Examination (CIE) marks.

In case, the student appears for Semester End Examination (SEE) of the concerned subject but not scored minimum 40% of CIE marks (16 marks out of 40 internal marks), his performance in that subject in SEE shall stand cancelled inspite of appearing the SEE.

The details of the end semester question paper pattern are as follows:

**7.3** The Semester End Examinations (SEE), for theory subjects, will be conducted for 60 marks consisting of two parts viz. i) Part- A for 10 marks, ii) Part - B for 50 marks.

- Part-A is a compulsory question which consists of ten sub-questions from all units carrying equal marks
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from each unit and may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.
- The duration of Semester End Examination is 3 hours.

  The paper setting and evaluation of all courses carried out by external examiners. The examiners will be selected by the Chief Controller of Examinations/Principal, from the panel of examiners submitted by the head of the respective department.

**7.4** For practical subjects there shall be a Continuous Internal Evaluation (CIE) during the semester for 40 marks and 60 marks for semester end examination. Out of the 40 marks for internal evaluation:

1. A write-up on day-to-day experiment in the laboratory (in terms of aim, components/procedure, expected outcome) which shall be evaluated for 10 marks.

2. 10 marks for viva-voce (or) tutorial (or) case study (or) application (or) poster presentation of the course concerned.

3. Internal practical examination conducted by the laboratory teacher concerned shall be evaluated for 10 marks.

4. The remaining 10 marks are for Laboratory Project, which consists of the Design (or) Software / Hardware Model Presentation (or) App Development (or) Prototype Presentation submission which shall be evaluated after completion of laboratory course and before semester end practical examination.

In the Semester End Examination, held for 3 hours, total 60 marks are divided and allocated as shown below:

1. 10 marks for write-up
2. 15 for experiment/program
3. 15 for evaluation of results
4. 10 marks for presentation on another experiment/program in the same laboratory course and
5. 10 marks for viva-voce on concerned laboratory course

*The Student, in each subject, shall have to earn 40% of marks (i.e. 16 marks out of 40 marks) in CIE, 40% of marks (i.e. 24 marks out of 60) in SEE and Overall 50% of marks (i.e. 50 marks out of 100 marks) both CIE and SEE marks taking together.*

*The student is eligible to write Semester End Examination of the concerned subject, if the student scores ≥ 40% (16 marks) of 40 Continuous Internal Examination (CIE) marks.*

*In case, the student appears for Semester End Examination (SEE) of the concerned subject but not scored minimum 40% of CIE marks (16 marks out of 40 internal marks), his performance in that subject in SEE shall stand cancelled inspite of appearing the SEE.*

**7.5** For conducting SEE (with duration of 3 hours), one internal examiner and one external examiner will be appointed by the Chief Controller of Examinations/Principal of the college. The external examiner should be selected from outside the college among the autonomous / reputed institutions from a panel of three examiners submitted by the concerned Head of the Department.

**7.6** There shall be a seminar presentation during III semester. For seminar, a student under the supervision of a faculty member, shall collect the literature on a topic and critically review the literature and submit it to the department in a report form and shall make an oral presentation before the Departmental Academic Committee consisting of Department PG Coordinator, Supervisor and two other senior faculty members of the department. For Seminar there will be only internal evaluation. Out of the total allocated marks distribution of marks shall be 30% for the report, 50% for presentation and 20%

for the queries. A candidate has to secure a minimum of 50% of marks to be declared successful. If the student fails to fulfill minimum marks, the student has to reappear during the supplementary examinations.  There shall be no semester end examinations for the seminar.

**7.7 Evaluation of Project/ Dissertation Work:**
Every candidate shall be required to submit a thesis or dissertation on a topic approved by the Project Review Committee.

7.7.1    A Project Review Committee (PRC) shall be constituted with Head of the Department as Chairperson/Department PG Coordinator, Project Supervisor and one senior faculty member of the Departments offering the M. Tech. programme.

7.7.2    Registration of Project Work: A candidate is permitted to register for the project work after satisfying the attendance requirement of all the subjects, both theory and practical.

7.7.3    After satisfying 7.7.2, a candidate has to submit, in consultation with his Project Supervisor, the title, objective and action plan of his project work to the PRC for approval. Only after obtaining the approval of the PRC the student can initiate the Project work.

7.7.4    If a candidate wishes to change his supervisor or topic of the project, he can do so with the approval of the PRC. However, the PRC shall examine whether or not the change of topic/supervisor leads to a major change of his initial plans of project proposal. If yes, his date of registration for the project work starts from the date of change of Supervisor or topic as the case may be.

7.7.5    A candidate shall submit his project status report in two stages at least with a gap of 2 months between them.

7.7.6    The work on the project shall be initiated at the beginning of the III Semester and the duration of the project is two semesters. A candidate is permitted to submit Project Thesis only after successful completion of all theory and practical courses with the approval of PRC not earlier than 40 weeks from the date of registration of the project work. For the approval of PRC the candidate shall submit the draft copy of thesis to the Head of the Department and make an oral presentation before the PRC.

     **Note:** *The project supervisor/guide has to ensure that the student has to publish a minimum of one paper related to the thesis in a National/International Conference/Journal.*

7.7.7    For the final approval by the PRC, the soft copy of the thesis should be submitted for <u>ANTI-PLAGIARISM</u> check for the quality and the plagiarism report should be included in the final thesis. If the similarity information is less than 24%, then only thesis will be accepted for submission.

7.7.8    Three copies of the Project Thesis certified by the supervisor, HOD shall be submitted to the Chief Controller of Examinations /Principal for project

evaluation (Viva Voce).

7.7.9 For Project/Dissertation phase-I in III Semester is internal evaluation only. The evaluation marks shall be carried out with a distribution of 70% evaluated by the PRC and 30% by Supervisor. The Supervisor and PRC will examine the Problem Definition, Objectives, Scope of Work and Literature Survey in the same domain. A candidate has to secure a minimum of 50% of the allocated marks to be declared successful for Project work part-I. If the student fails to fulfill minimum marks, the student has to reappear during the supplementary examination.

7.7.10 For Project/Dissertation phase-II in IV Semester is an external evaluation. The evaluation shall be carried out by the External examiner appointed by the Chief Controller of Examinations/Principal. For this, the Head of the Department shall submit a panel of 3 examiners, eminent in that field, with the help of the supervisor/guide concerned. The distribution of marks followed by Quality of the work (Plagiarism), Paper publication, nature of the work (Tools & software used and Innovative ideas), presentation and Viva-Voce - each for 20% of allocated marks. The candidate has to secure minimum of 50% marks in Project Evaluation (Viva-Voce) examination.

7.7.11 If the student fails to fulfill as specified in 7.7.10, based on the recommendation of the external examiner, the student will reappear for the Viva-Voce examination with the revised thesis only after three months. In the reappeared examination also, fails to fulfill, the student will not be eligible for the award of the degree.

7.7.12 The Head of the Department shall coordinate and make necessary arrangements for the conduct of Project Viva-Voce examination.

### 7.8     Non-Credit Courses:

### 7.8.1   Audit Courses:
Audit Courses offered in any Semester, a '**Satisfactory Participation Certificate**' shall be issued to the student from the concerned authorities, only after securing $\geq 65\%$ attendance in such a course. No marks or Letter Grade shall be allotted for these activities.

### 8       Examinations and Assessment - The Grading System:

**8.1**    Grades will be awarded to indicate the performance of each student in each Theory Subject, or Lab / Practicals, or Seminar, or Project, etc., based on the % marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 6 above, and a corresponding Letter Grade shall be given.

**8.2**    As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades (UGC Guidelines) and corresponding percentage of marks shall be followed:

| % of Marks Secured (Class Intervals) | Grade Points | Letter Grade (UGC Guidelines) |
|---|---|---|
| ≥ 90%, | 10 | O (Outstanding) |
| (≥ 80%, <90%) | 9 | A+ (Excellent) |
| (≥ 70%, < 80%) | 8 | A (Very Good) |
| (≥ 60%, < 70%) | 7 | B+ (Good) |
| (≥ 55%, < 60%) | 6 | B ( Average) |
| (≥ 50%, < 55%) | 5 | C (Pass) |
| (< 50%) | 0 | F(Fail) |
| Absent | 0 | Ab |

**8.3** A student obtaining F Grade in any Subject shall be considered 'failed' and is be required to reappear as 'Supplementary Candidate' in the Semester End Examination (SEE), as and when conducted. In such cases, his Internal Marks (CIE Marks) in those Subjects will remain the same as those he obtained earlier.

**8.4** A student not appeared for examination then 'Ab' Grade will be allocated in any Subject shall be considered 'failed' and will be required to reappear as 'Supplementary Candidate' in the Semester End Examination (SEE), as and when conducted.

**8.5** A Letter Grade does not imply any specific Marks percentage and it will be the range of marks percentage.

**8.6** In general, a student shall not be permitted to repeat any Subject/ Course (s) only for the sake of 'Grade Improvement' or 'SGPA/ CGPA Improvement'.

**8.7** A student earns Grade Point (GP) in each Subject/ Course, on the basis of the Letter Grade obtained by him in that Subject/ Course. The corresponding 'Credit Points' (CP) is computed by multiplying the Grade Point with Credits for that particular Subject/ Course.

**Credit Points (CP) = Grade Point (GP) x Credits …. For a Course**

**8.8** The Student passes the Subject/ Course only when he gets GP ≥ 5(C Grade or above).

**8.9** The Semester Grade Point Average (SGPA) is calculated by dividing the Sum of Credit Points (∑CP) secured from ALL Subjects/ Courses registered in a Semester, by the Total Number of Credits registered during that Semester. SGPA is rounded off to TWO Decimal Places. SGPA is thus computed as:

$$\text{SGPA} = \left\{ \sum_{i=1}^{N} C_i G_i \right\} / \left\{ \sum_{i=1}^{N} C_i \right\} \dots \text{ For each Semester}$$

where 'i' is the Subject indicator index (takes into account all Subjects in a Semester), 'N' is the no. of Subjects 'REGISTERED' for the Semester (as specifically required and listed under the Course Structure of the parent Department), $C_i$ is the no. of Credits allotted to the $i^{th}$ Subject, and $G_i$ represents the Grade Points (GP) corresponding to the Letter Grade awarded for that $i^{th}$ Subject.

**8.10** The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student over all Semesters considered for registration. The CGPA is the ratio of the Total Credit Points secured by a student in ALL registered Courses in ALL Semesters, and the Total Number of Credits registered in ALL the Semesters. CGPA is rounded off to TWO Decimal Places. CGPA is thus computed from the II Semester onwards, at the end of each Semester, as per the formula:

$$CGPA = \left\{\sum_{j=1}^{M} C_j G_j\right\} / \left\{\sum_{j=1}^{M} C_j\right\} \text{ ... for all S semesters registered}$$
$$\text{(i.e., upto and inclusive of S semesters, S} \geq 2)$$

where 'M' is the TOTAL no. of Subjects (as specifically required and listed under the Course Structure of the parent Department) the Student has 'REGISTERED' from the 1st Semester onwards upto and inclusive of the Semester S ( obviously M > N ), 'j' is the Subject indicator index (takes into account all Subjects from 1 to S Semesters), $C_j$ is the no. of Credits allotted to the $j^{th}$ Subject, and $G_j$ represents the Grade Points (GP)corresponding to the Letter Grade awarded for that $j^{th}$ Subject. After registration and completion of I Semester however, the SGPA of that Semester itself may be taken as the CGPA, as there are no cumulative effects.

**Illustration of calculation of SGPA**

| Course/Subject | Credits | Letter Grade | Grade points | Credit Points |
|---|---|---|---|---|
| **Course 1** | 3 | A | 8 | 3X8=24 |
| Course 2 | 3 | O | 10 | 3X10=30 |
| Course 3 | 3 | B | 6 | 3X6=18 |
| Course 4 | 3 | A+ | 9 | 3X9=27 |
| Course 5 | 2 | B+ | 7 | 2X7=14 |
| Course 6 | 2 | A | 8 | 2X8=16 |
| Course 7 | 2 | B | 6 | 2X6=12 |
| | 18 | | | 141 |
| **SGPA = 141/18 = 7.83** | | | | |

**Illustration of calculation of CGPA**

| Semester | Credits | SGPA | Credits X SGPA |
|---|---|---|---|
| Semester I | 18 | 7 | 18 X 7 = 126 |
| Semester II | 18 | 6 | 18 X 6 = 108 |
| Semester III | 16 | 6.5 | 16 X 6.5 = 104 |
| Semester IV | 16 | 7.25 | 16 X 7.25 = 116 |
| | 68 | | 454 |
| **CGPA = 454/68 = 6.67** | | | |

**8.11** For Calculations listed in Item 8.6 – 8.10, performance in failed Subjects/ Courses (securing F Grade) will also be taken into account, and the Credits of such Subjects/Courses will also be included in the multiplications and summations.

## 9. Award of Degree and Class:

**9.1** A Student who registers for all the specified Subjects/ Courses as listed in the Course Structure, satisfies all the Course Requirements, and passes the examinations prescribed in the entire PG Programme (PGP), and secures the required number of **68** Credits (with CGPA ≥ 5.0), shall be declared to have 'QUALIFIED' for the award of the M.Tech. degree in the chosen Branch of Engineering and Technology with specialization as he admitted.

**9.2 Award of Class**
After a student has satisfied the requirements prescribed for the completion of the programme and is eligible for the award of M. Tech. Degree, he shall be placed in one of the following three classes based on the CGPA:

| Class Awarded | CGPA |
|---|---|
| First Class with Distinction | ≥ 8.00 |
| First Class | ≥ 6.50 and < 8.00 |
| Second Class | ≥ 5.00 and < 6.50 |

**9.3** A student with final CGPA (at the end of the PGP) < 5.00 will not be eligible for the Award of Degree.

**9.4** Students will be eligible for the award of '**Gold Medal**', if he/she passes all the subjects /courses in first appearance within the first academic years (or four sequential semesters) from the date of commencement of first year first semester and should have secure CGPA ≥ 8.00 at the end of four sequential semesters.

## 10 Withholding of Results:

If the student has not paid the dues, if any, to the Institution/University or if any case of indiscipline is pending against him, the result of the student will be withheld and he will not be allowed into the next semester. His degree will be withheld in such cases.

## 11. Transitory Regulations:

**11.1** If any candidate is detained due to shortage of attendance in one or more subjects, they are eligible for re-registration to maximum of two earlier or equivalent subjects at a time as and when offered.

**11.2** The candidate who fails in any subject will be given two chances to pass the same subject; otherwise, he has to identify an equivalent subject as per MR18 Academic Regulations.

## 12. Student Transfers:

**12.1** There shall be no Branch/Specialization transfers after the completion of Admission Process.

**12.2** The students seeking transfer to MALLA REDDY ENGINEERING COLLEGE (Autonomous)- MREC(A) from various other Universities/ institutions have to pass the failed subjects which are equivalent to the subjects of MREC(A), and also pass the subjects of MREC(A) which the students have not studied at the earlier institution. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of MREC (A), the students have to study those subjects in MREC (A) in spite of the fact that those subjects are repeated.

**12.3** The transfer students from other Universities / Institutions to MREC (A) who are on rolls will be provided one chance to write internal examinations in the failed subjects and/or subjects not studied as per the clearance letter issued by the JNTUH.

**13.** **General:**

**13.1** **Credit**: A module by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.

**13.2** **Credit Point:** It is the product of grade point and number of credits for a course.

**13.3** Wherever the words "he", "him", "his", occur in the regulations, they shall include "she", "her" also.

**13.4** The academic regulation should be read as a whole for the purpose of any interpretation.

**13.5** In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the College Academic Committee headed by the Principal is final.

## MALPRACTICES RULES
## DISCIPLINARY ACTION FOR IMPROPER CONDUCT IN EXAMINATIONS

| Sl. No. | Nature of Malpractices/ Improper conduct | Punishment |
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| | **If the candidate:** | |
| 1. (a) | Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, Cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which he is appearing but has not made use of (material shall include any marks on the body of the candidate which can be used as an aid in the SEE) | Expulsion from the examination hall and cancellation of the performance in that course only. |
| (b) | Gives assistance or guidance or receives it from any other candidate orally or by any other body language methods or communicates through cell phones with any candidate or persons in or outside the exam hall in respect of any matter. | Expulsion from the examination hall and cancellation of the performance in that course only of all the candidates involved. In case of an outsider, he will be handed over to the police and a case is registered against him. |
| 2 | Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to that course of the examination (theory or practical) in which the candidate is appearing. | Expulsion from the examination hall and cancellation of the performance in that course and all other courses the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the courses of that Semester. The Hall Ticket of the candidate shall be cancelled. |
| 3 | Impersonates any other candidate in connection with the examination. | The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The performance of the original candidate who has been impersonated, shall be cancelled in all the courses of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining courses of that semester. |

| | | The candidate is also debarred for two consecutive semesters from class work and all SEE. The continuation of the programme by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him. |
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| 4 | Smuggles in the Answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination. | Expulsion from the examination hall and cancellation of performance in that course and all the other courses the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the courses of that semester. The candidate is also debarred for two consecutive semesters from class work and all SEE. The continuation of the programme by the candidate is subject to the academic regulations in connection with forfeiture of seat. |
| 5 | Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks. | Cancellation of the performance in that course. |
| 6 | Refuses to obey the orders of the Chief Controller of Examinations (CCE) / Controller of Examinations (CE)/ Assistant Controller of Examinations (ACE) / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief | In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that course and all other courses the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the courses of that semester. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police cases registered against them. |

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| | which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination | |
| 7 | Leaves the exam hall taking away answer script, intentionally tears of the script or any part thereof inside or outside the examination hall. | Expulsion from the examination hall and cancellation of performance in that course and all the other courses the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the courses of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all SEE. The continuation of the programme by the candidate is subject to the academic regulations in connection with forfeiture of seat. |
| 8 | Possess any lethal weapon or firearm in the examination hall. | Expulsion from the examination hall and cancellation of the performance in that course and all other courses the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the courses of that semester. The candidate is also debarred and forfeits the seat. |
| 9 | If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8. | Expulsion from the examination hall and cancellation of the performance in that course and all other courses the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the courses of that semester. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them. |
| 10 | Comes in a drunken condition to the examination hall. | Expulsion from the examination hall and cancellation of the performance in that course and all other courses the candidate has already appeared including practical examinations and project work and shall |

| | | not be permitted for the remaining examinations of the courses of that semester. |
|---|---|---|
| 11 | Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny. | Cancellation of the performance in that course and all other courses the candidate has appeared including practical examinations and project work of that SEE. |
| 12 | If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the CCE for further action toward suitable punishment. | |

Note: *The student(s) found indulging in malpractices during the CIE also will be punished based on the recommendations of the College Academic Committee.*

Malpractices identified by squad or special invigilators, Punishments to the students as per the above guidelines.