# ACADEMIC REGULATIONS FOR M. Tech / MBA COURSES

**SREENIDHI University**

**Under**

**ACADEMIC REGULATIONS FOR M. Tech (Full-Time) PROGRAM -2022 - 23**

**M.Tech COURSES OFFERED**

| Sl. No. | Dept. | M.Tech courses |
|---------|-------|----------------|
| 1 | CSE | Computer Science and Engineering |
| 2 | CSE | Computer Science and Engineering (AI&ML) |

**AWARD OF SESSIONAL MARKS**

| Item | Pattern | Marks |
|------|---------|-------|
| Mid Test | **a)** Part – A – Short answer questions | 10 Questions compulsory - 10 **marks** |
| | b) Part – B – Long answer questions | 2 questions out of 3 to be answered (at least one question from each unit) - 2**0 marks** |
| Assignment | a. Written assignment | Three questions from each unit – total of 9 questions in the assignment. This has to be submitted before the first mid test and before second mid. The average two assignments. – 5 **marks** |
| | b. Assignment test along with mid test (Part-C). | Question Paper will have 3 questions – One from each unit taken from assignment questions. Student has to answer 2 questions out of 3 - **10 marks** |
| Class room participation | Attendance and attention in the class | **10 marks** |
| Class notes | Verification of the class notes | **5 marks** |
| Total | | **60 marks** |

Two Mid sessional examinations will be conducted and the average of the two shall be the sessional marks for the subject concerned. In the case of the students who are absent on Medical grounds 3$^{rd}$ test will be conducted on payment of Rs.500/- for each of the subject. Other students also will be permitted to attend the 3$^{rd}$ test on payment of Rs.500/- for improving their sessional

marks.  However, the average of the best two tests will be considered for award of sessional marks in the subject concerned.

## ALLOTMENT OF CREDITS FOR VARIOUS SUBJECTS

| Sl.No | Particulars | – As per model curriculum of AICTE |
|-------|-------------|-------------------------------------|
| 1 | Total Credits | 68 |
| 2 | Common subject for all branches | Research Methodology and IPR |
| 3 | Labs | 4 labs (2 each in 1$^{st}$ and 2$^{nd}$ semesters) |
| 4 | Seminars | Technical Seminar |
| | | – |
| | | Mini Project with Seminars |
| | | Comprehensive Viva Voce  in Semesters I &  II |
| | | Project Phase – I with Seminars |
| | | Project Phase – II with Seminars |

**ACADEMIC REGULATIONS FOR M.Tech (Full-Time) PROGRAMS -2022 - 23 (R22)**

**(Effective for the students admitted into first year from the academic year 2022- 23 and onwards)**

**1.0**   **Sreenidhi University** offers **Two** Years (**Four** Semesters) full-time Master of Technology (M.Tech.) Degree programmes, under Choice Based Credit System (CBCS), in the specialisations mentioned above.

## 2.0   ELIGIBILITY FOR ADMISSIONS

**2.1**   Admission to the PGPs shall be made subject to eligibility, qualification and specializations prescribed by the University from time to time, for each specialization under each M.Tech programme.

**2.2**   Admission to the post graduate programme shall be made on the basis of either the merit rank or Percentile obtained by the qualified student in the relevant qualifying GATE Examination/ the merit rank obtained by the qualified student in an entrance test conducted by Sreenidhi University  for M.Tech.  programmes  /  percentage of marks in the qualifying examinations. Subject to reservations as laid down by the Government of Telangana for Private Universities from time to time.

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

# 3.0 M.Tech. Programme (PGP in E&T) Structure

**3.1** The M.Tech Programmes in E & T of JNTUH 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** The student shall not take more than four academic years to fulfill all the academic requirements for the award of M.Tech. degree from the date of commencement of first year first semester, failing which the student shall forfeit the seat in M.Tech. programme.

### 3.2.1 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 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 'Comprehensive Viva', or ' Group Project', or "Industry oriented mini project " or "Project" or 'Technical Paper Writing' as the case may be.

### 3.2.2 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/ tutorials (T) (L) 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 courses, if any, will not carry credits but they will be evaluated internally if they get grades accordingly as per the table below. If a candidate does not pass the mandatory courses, he will not be awarded with degree.

| % of marks secured in a mandatory course | Letter Grade as per UGC guidelines | Grade points |
|---|---|---|
| Greater than or equal to 90% | O (Outstanding) | 10 |
| 80 and above but less than 90% | A+ (Excellent) | 09 |
| 70 and above but less than 80% | A (Very good) | 08 |
| 60 and above but less than 70% | B+ (Good) | 07 |
| 50 and above but less than 60% | B (Above Average) | 06 |
| Less than 50% | F (Fail) | 0 |
| Absent | Ab | 0 |

**3.2.3** The student shall register for all 68 credits and secure all the 68 credits. In case a student who passed in all subjects, but the SGPA in any semester is less than 6.0 he/she can be permitted to write the end semester examinations in the subjects of his/her choice in the corresponding semester in the following academic year for improving the grade in the subjects concerned so that the SGPA of 6.0 can be attained. Thus, a student will not be permitted to write the end semester examinations once again for the purpose of improving the grade in the subject and hence the SGPA, in the event the student has already secured SGPA of 6.0 and above.

**3.2.4 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 University has followed in general the guidelines issued by AICTE/UGC.

| S.No. | Broad Course Classification | Course Group/ Category | Course Description |
|---|---|---|---|
| 1 | Core Courses (CoC) | PC-Professional Core | Includes subjects related to the parent discipline/department/ branch of Engineering |
| | | Project Work | M.Tech Project or PG Project or Major Project |
| | | Seminar, Technical Paper Writing | Seminar/Colloquium based on core contents related to parent discipline/department/branch of Engineering |
| | | Comprehensive Viva-Voce | Viva-voce covering all the PG subjects studied during the course work and related aspects |
| | Elective Courses | PE - Professional Electives | Includes elective subjects related to the parent discipline/department/branch of Engineering |

| | | | |
|---|---|---|---|
| 2 | (ElE) | OE - Open Electives | Elective subjects which include inter-disciplinary subjects or subjects in an area outside the parent discipline/department/ branch of Engineering |

**Total number of Credits - 68**

## 4.0. <u>COURSES OF STUDY</u>

**Departments offering M.Tech. Programmes with specializations are noted below:**

| Sl. No. | Dept. | M.Tech courses |
|---|---|---|
| 1 | CSE | Computer Science and Engineering |
| 2 | CSE | Computer Science and Engineering (AI&ML) |

## 5.0 <u>ATTENDANCE REQUIREMENTS</u>

The programs are offered on a unit basis with each subject being considered a unit.

**5.1** Attendance in all classes (Lectures/Tutorials /Laboratories/Seminar/ Mandatory courses) is compulsory. The minimum required attendance in each theory including the attendance of mid-term examination / Laboratory etc. is 75%. *Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. A student shall not be permitted to appear for the Semester End Examinations (SEE), if his attendance is less than 75%.*

**5.2** A student's seminar report and seminar presentation will be eligible for evaluation, only if he ensures a minimum of 75% of his attendance in seminar presentation classes during that semester.

**5.3** **Condoning of shortage of attendance** (between 65% and 75%) up to a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) in each subject of a semester shall be granted by the College Academic Committee.

5.4 Shortage of Attendance below 65% in the semester, shall <u>IN **NO CASE**</u> be condoned and he/she cannot register for end examinations.

5.5 A candidate who is detained due to shortage of attendance may seek re-registration in to the same semester as and when that is offered. If any candidate fulfills the attendance requirement in the present semester, he shall not be eligible for re-registration for the same semester. However, he will be permitted to appear for consecutive examinations.

**5.6**    A prescribed fee per subject shall be payable for condoning shortage of attendance.

**5.7**    A student shall put in a minimum required attendance in I Year I semester for promotion to I Year II Semester.

## 6.0    <u>ACADEMIC REQUIREMENTS</u>

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned above. The performance of the candidate in each semester shall be evaluated subject-wise, with a maximum of 100 marks per subject / course (theory / practical), on the basis of Internal Evaluation and Semester End Examination.

**6.1**    A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course, if he/she secures not less than 40% of marks (16 out of 40 marks) in the End Semester Examination, and a minimum of 50% of marks in the sum total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of Letter Grades and this implies securing 'B' Grade or above in a subject.

**6.2**    A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to a subject/ course, if he/she secures not less than 50% of the total marks. The student is deemed to have failed, if he/she (i) does not attend the comprehensive viva- voce as per the schedule given, or (ii) does not present the seminar as required, or (iii) does not present the Technical Paper Writing as required. In such a case, he may reappear for comprehensive viva-voce in supplementary examinations and for seminar/ technical paper writing, in the subsequent semesters, as and when scheduled by paying required fee as per the norms of the Institution.

**6.3**    A student shall register for all subjects for total of 68 credits as specified and listed in the course structure for the chosen specialization, put in required the attendance and fulfill the academic requirements for securing 68 credits obtaining a minimum of 'B' Grade or above in each subject, and all 68 credits securing Semester Grade Point Average **(SGPA)** $\geq$**6.0** (in each semester) and final Cumulative Grade Point Average **(CGPA)** (i.e., CGPA at the end of PGP**)** $\geq$ **6.0**, to complete the PGP successfully.

**Note: (1)**  **The SGPA will be computed and printed on the marks memo only if the candidate passes in all the subjects offered and gets minimum B grade in all the subjects.**

        **(2)**  **CGPA is calculated only when the candidate passes in all the subjects offered in all the semesters.**

**6.4** Marks and Letter Grades obtained in all those subjects covering the above specified 68 credits alone shall be considered for the calculation of final CGPA, which will be indicated in the Grade Card /Marks Memo of second year second semester.

**6.5** If a student registers for extra subject(s) (in the parent department or other departments/ branches of Engineering) other than those listed subjects totaling to 68 credits as specified in the course structure, the performance in extra subject(s) (although evaluated and graded using the same procedure as that of the required 68 credits) will not be taken into account while calculating the SGPA and CGPA. For such extra subject(s) registered, percentage of marks and Letter Grade alone will be indicated in the Grade Card/Marks Memo, as a performance measure, subject to completion of the attendance and academic requirements as stated in items 5 and 6.1 - 6.3.

**6.6** A student eligible to appear for the Semester End Examination in any subject, but absent from it or failed (failing to secure 'B' Grade or above), may reappear for that subject at the supplementary examination as and when conducted. In such cases, his Internal Marks assessed earlier for that subject will be carried over, and added to the marks secured in the supplementary examination, for the purpose of evaluating his performance in that subject.

**6. 7** A student can opt for one extra subject from II year I semester in M. Tech. I year I semester and also in I year II semester so that the student can complete all the courses of II year I semester and student can concentrate on Project work in the entire II semester either in the institution or in the industry to complete quality work.

6.8 A Student who fails to earn 68 credits as per the specified course structure, and as indicated above, within **four** academic years from the date of commencement of his first year first semester, shall forfeit his seat in M. Tech. programme and his admission **shall stand cancelled.**

## 7.0 <u>EVALUATION</u>

The performance of a student in each semester shall be evaluated subject- wise (irrespective of credits assigned) for a maximum of 100 marks. The M.Tech. project work (major project) will also be evaluated for 100 marks.

7.1 There shall be two midterm examinations in every theory course. 30 marks are earmarked for each midterm examination. The marks shall be awarded considering the average of two midterm examination marks in each course. If any candidate is absent from any subject for mid-term examination and/or he/she wishes to improve the performance, a Third Mid test will be conducted for the Student by the College in the entire syllabus on the same day of the main examinations. The result will be treated equal to a mid test and average of better

two mid tests will be considered. Each mid test will have compulsory questions without choice and long answer questions as detailed in the following paragraphs.

- Separate registration for third mid for each subject can be done by the student by paying an amount of Rs.500/- or as decided by the Finance Committee time to time, for each subject.

- **The midterm examination** question paper shall be of three parts, i.e. Part 'A', Part 'B' and Part 'C'.

The procedure for computation of sessional marks will be followed as stated above under the item "AWARD OF SESSIONAL MARKS" (Page 1)

The duration of examination Mid test I and Mid test II will be for two hours and for Mid test – III for a duration of 2 ½ hours

- Each Midterm examination in theory subjects will be restricted to three units, out of the total of 6 units of syllabus, i.e. Mid test– I will be on Units 1 to 3, Mid test - II will be on Units 4 to 6. Mid test III will be from entire syllabus and conducted on the same day of main examination for a period of 2 ½ hours.

- Two assignments shall be given for a total weightage of 5 marks. Assignment-I is to be submitted before the first mid examinations and assignment-II which is to be submitted before the second mid test and average of 2 assignments will be taken for 5 marks. Students will be given back the assignment before midterm examinations. Five marks are allotted for class notes which are to be signed by concerned teacher every fortnight.

Three marks for each theory course shall be given for those students who put in attendance in a graded manner as given below:

| S.No. | Attendance Range | Marks Awarded |
|-------|------------------|---------------|
| 1. | 65 and above but less than 75% | 3 |
| 2. | 75% and above and up to 85% | 6 |
| 3. | More than 85 % | 10 |

- Marks for attendance shall be added to each subject based on average of attendance of all subjects put together.

- Award of final sessional marks: Attendance, average marks of two assignments, marks for class notes and mid-examination marks shall be added and the total marks are awarded as final sessional marks.

7.1.1 The external examination question paper shall be of two parts, Part 'A' and Part 'B'.

**Pattern for External Examinations for theory subjects (40 marks)**

There shall be external examination in every theory course and it consists of two parts (part-A & part-B). The total time duration for the end examination will be 3 hours.

**Part-A shall have 10 marks**, which is compulsory, it will have 10 short questions 1 mark each.

Out of which 5 questions are to be set for 3 marks each and other five questions are to be set for 2 marks each.

**Part-B** of the question paper shall have subjective type questions **for 30 marks** and shall have 7 questions out of which 5 are to be answered. At least one question must appear from each Unit. And not more then 2 questions from each unit All the questions carry equal marks.

**Pattern of Evaluation for Lab Subjects (100 marks)**

It is decided to offer two labs in the I semester and two labs in the II semester of I year. For practical subjects there shall be a continuous evaluation during the semester for 60 sessional marks and 40 marks for end examination.

**Out of the 60 marks for internal, the distribution is as follows :**

1. Day-to-Day Work                              - 10 marks
2. Final Record and viva                         - 10 marks
3. Average of two tests including viva           - 20 marks
4. Lab based project report and viva            - 10 marks
5. Project demo                                  - 10 marks
                    **Total**                    **- 60 marks**

**The end examination 40 marks** shall be conducted by an external examiner and an internal examiner appointed by the Chief Superintendent of Examinations of the college. The marks are distributed as follows:

1. Procedure to experiment and calculation      - 05 marks
2. Conduct of experiment, observation, calculation    - 15 marks
3. Results including graphs, discussions and conclusion - 15 marks
4. Viva voce and record                        - 05 marks
                **Total**                         **- 40 marks**

**In case computer based examinations (internal) :**
1. Flowchart and algorithms                    - 05 marks
2. Program writing and execution             - 10 marks
3. Result and conclusions                     - 05 marks
4. Viva voce and record                        - 05 marks
                **Total**                         **- 25 marks**

7.2  Laboratory marks and the sessional marks awarded by the Department are not final. They are subject to scrutiny and scaling by the college wherever necessary. In such cases, the sessional and laboratory marks awarded by the department will be referred to a Committee. The Committee will arrive at a scaling factor and the marks will be scaled as per the scaling factor. The recommendations of the Committee are final and binding. The laboratory records and internal test papers shall be preserved in the respective departments as per the college norms and shall be produced to the Committee of the college as and when the same is asked for.

7.3  A candidate shall be deemed to have secured the minimum academic requirement in a subject/practical, if he secures a minimum of 40% of marks in the End Examination and a minimum aggregate of 50% of the total marks in the End Semester Examination and Internal Evaluation taken together.

7.4  In case the candidate does not secure the minimum academic requirement in any subject/practical (as specified in 7.3) he/she has to reappear for the End Examination in that subject/practical.

**7.5   Technical Paper writing and seminar :**

Technical paper writing and seminar is divided into four parts one in each semester as stated below :

| Semester | Subject | Credits | Internal marks | External marks |
|---|---|---|---|---|
| I year I sem | Technical paper writing and seminar | 1 | 60 | 40 |
| I year II sem | Mini project with seminar | 2 | 60 | 40 |
| II year I sem | Project Phase – I and Seminar | 10 | 120 | 80 |
| II year II Sem | Project Phase – II and Seminar | 6 | 120 | 80 |

There shall be technical seminar and comprehensive viva ( CVV) during I year I semester and Mini Project and seminar during I year II 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 Committee, which shall consist of the Head of the Department, a senior Faculty Member and the Supervisor and will jointly evaluate the report and presentation. For each Seminar there will be only internal evaluation of 50 marks. A candidate has to secure a minimum of 50% to be declared successful.  The comprehensive Viva voce in the subjects of I year I semester will be conducted by the External examiner and it will be valid for 50 marks. A candidate has to secure a minimum of 50% to be declared successful.

In the First semester the report must be in the form of the review paper with a format         used by IEEE / ASME etc.  In the Second semester Mini project with seminar in the         form of Independent Review Paper must be of high quality fit for publication in a reputed          conference / journal.

**The evaluation format for Technical paper writing and seminar is as follows:**

| | |
|---|---|
| Selection of topic, literature survey Review by the guide | 5 marks |
| Final report and viva | 5 marks |
| Level of content | 10  marks |
| Presentation | 10 marks |
| Discussion & Involvement | 10 marks |
| Class notes | 10 marks |
| Attendance | 10 marks |
| Total | 60 Marks |

**7.6    Comprehensive Viva-Voce:**

There shall be a Comprehensive Viva-Voce Examination. The Comprehensive Viva-Voce will be conducted by a Committee consisting of Head of the Department and one Senior Faculty member of the Department and external examiner. The Comprehensive Viva-Voce is aimed to assess the student's understanding in various subjects, he/she studied. The Comprehensive Viva-Voce is valued for 100 marks.  There are no internal marks for comprehensive viva voce. A candidate has to secure a minimum of 50 % of marks to be declared successful.

### 7.7  Project Seminars

In II year I semester and II semester there will be Project Phase – I and seminar, Project phase – II and seminar  shall be conducted for 60 marks internal and 40 marks external.   The evaluation for the project reviews shall be done in 2 stages (not less than 4 weeks between two consecutive stages) including end semester evaluation.  A candidate shall secure a minimum 50% of marks to be declared successful

**Project work Phase I and II**

The student shall submit a project status report at the end of II year I semester along with a review paper on the subject of the thesis and same shall be evaluated at the end of the semester by the Project Review Committee ( PRC).

## 8.0  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.

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

8.2    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.

8.3    After satisfying 7.2, a candidate has to submit, in consultation with his Project Supervisor, the title, objective and plan of action of his project work to the PRC for approval. Only after obtaining the approval of the PRC the student can initiate the Project work.

8.4    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.

8.5    A candidate shall submit his project status report in four stages at least with a gap of 4 weeks between two consecutive stages.

8.6    The work on the project shall be initiated at the beginning of the II year 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 (no backlogs) 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.

8.7    After approval from the PRC, the soft copy of the thesis should be submitted to the College for ANTI-PLAGIARISM for the quality check and the plagiarism report should be included in the final thesis. If the copied information is less than 24%, then only thesis will be accepted for submission.

8.8.   After approval from the PRC, a soft copy of the thesis should be submitted for ANTI- PLAGIARISM check and the plagiarism report should be submitted to the University and be included in the final thesis. The Thesis will be accepted for submission, if the similarity index is less than 30%.  If the similarity index has more than the required percentage, the student is advised to modify accordingly and re-submit the soft copy of the thesis after one month. The maximum number of re-submissions of thesis after plagiarism check is limited to TWO. The candidate has to register for the Project work and work for two semesters. After three attempts, the admission is liable to be cancelled. The college authorities are advised to make plagiarism check of every soft copy of theses before submissions.

8.9    Three copies of the Project Thesis certified by the supervisor shall be submitted to the College.

8.10   The thesis shall be evaluated by one examiner selected by the college.  For this, the Head of the department shall submit a panel of 5 examiners i.e. eminent persons with Ph.D or should have guided at least 5 M.Tech projects or should have been working in an R&D organization at the level of not less than Scientist-C, with the help of the guide concerned.  The Principal will select one of the examiners and thesis will be sent for evaluation.  If the report is favourable, the head of the department must organize for viva-voce examination.

8.11.  If the report of the examiner is not favourable, the candidate shall revise and resubmit the Thesis, in the time frame as decided by the PRC.  If the report of the examiner is unfavourable again, the thesis shall be summarily rejected.  Then the candidate has to work on the thesis once again and shall be submitted to the PRC for its evaluation and further action on the matter.

8.12   For Project Evaluation (Viva Voce) in II Year II Sem. there are external marks of 80 for 10 credits.  HoD shall submit a panel of 5 examiners, eminent in that field. Principal will appoint one of them as examiner.

8.13   The thesis shall be adjudicated by examiner selected by the College. If the report of the examiner is not favourable, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unfavourable again, the thesis shall be summarily rejected.

8.14 If the report of the examiner is favourable, Project Viva-Voce examination shall be conducted by a board consisting of the Supervisor, Head of the Department and the external examiner who adjudicated the Thesis. Candidate has to secure minimum of 50% marks in Project Evaluation (Viva-Voce) examination.

8.15 If he fails to fulfill as specified in 8.12, he will reappear for the Viva-Voce examination only after three months. In the reappeared examination also, fails to fulfill, he will not be eligible for the award of the degree.

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

## 9.0 <u>RE-ADMISSION/RE-REGISTRATION</u>

9.1 Re-Admission for Discontinued Student

A student, who has discontinued the M.Tech. degree programme due to any reason whatsoever, may be considered for 'readmission' into the same degree programme (with the same specialization) with the academic regulations of the batch into which he gets readmitted, with prior permission from the authorities concerned.

9.2 If a student is detained due to shortage of attendance in any semester, he/she may be permitted to re-register for the same semester(s).

## 10.0 <u>EXAMINATIONS AND ASSESSMENT - THE GRADING SYSTEM</u>

10.1 Grades will be awarded to indicate the performance of each student in each Theory Subject, or Lab / Practicals, or Seminar, or Technical Paper Writing or Project, etc., based on the % of marks obtained in CIE + SEE (Continuous Internal Evaluation + Semester End Examination, both taken together) as specified in Item 7 above, and a corresponding Letter Grade shall be given.

10.2 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 as shown in 3.2.2: (Page No.3)

10.3 A student obtaining F Grade in any Subject is deemed to have 'failed' and is required to reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted. In such cases, his Internal Marks (CIE Marks) in those subjects will remain as obtained earlier.

10.4 If a student has not appeared for the examinations, 'Ab' Grade will be allocated to him for any subject and shall be considered 'failed' and will be required to

reappear as 'Supplementary Candidate' for the Semester End Examination (SEE), as and when conducted.

10.5.   A Letter Grade does not imply any specific marks percentage; it is only the range of percentage of marks.

10.6.   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'.

10.7.   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) are computed by multiplying the Grade Point with Credits for that particular Subject/ Course.

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

10.8.   The student passes the Subject/ Course only when he gets GP of 6 (B Grade or above).

10.9.   The Semester Grade Point Average (SGPA) is calculated by dividing the Sum of Credit Points ($\Sigma$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

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

where 'i' is the Subject indicator index (taking 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 Gj represents the Grade Points (GP) corresponding to the Letter Grade awarded for that jth Subject.

10.10. 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 I Year Second Semester onwards, at the end of each Semester, as per the formula.

$$\text{CGPA} = \left\{ \sum_{j=1}^{M} C_i\, G_i \right\} / \left\{ \sum_{j=1}^{M} C_i \right\} \;\dots\; \textbf{for all S Semesters registered}$$

(ie., 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' for from the 1st Semester onwards upto and inclusive of the

Semester S ( obviously M > N ), 'j' is the Subject indicator index (taking into account all Subjects from 1 to S Semesters), **Ci** is the no. of Credits allotted to the **jth** Subject, and **Gj** represents the Grade Points (GP) corresponding to the Letter Grade awarded for that **jth** Subject. After registration and completion of I Year 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 | 4 | A | 8 | 4*8 = 32 |
| Course | 4 | O | 10 | 4*10 = 40 |
| Course | 4 | B | 6 | 4*6 = 24 |
| Course | 3 | B | 6 | 3*6 = 18 |
| Course | 3 | A+ | 9 | 3*9 = 27 |
| Course | 3 | B | 6 | 3*6 = 18 |
|  | 21 |  |  | 159 |

SGPA = 159/21 = 7.57


**Illustration of calculation of CGPA**

| Semester | Credits | SGPA | Credits * SGPA |
|---|---|---|---|
| Semester I | 24 | 7 | 24*7 = 168 |
| Semester II | 24 | 6 | 24*6 = 144 |
| Semester III | 24 | 6.5 | 24*6.5 = 156 |
| Semester IV | 24 | 6 | 24*6 = 144 |
|  | 96 |  | 612 |

CGPA = 612/96 = 6.37

## 11.0  AWARD OF DEGREE AND CLASS

11.1    If 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 **88** Credits (with CGPA $\geq$ 6.0), shall be declared to have 'QUALIFIED' for the award of the M.Tech. Degree in the chosen Branch of Engineering and Technology with the specialization that he was admitted into.

*1.*

11.2    Award of Class

After a student has earned 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 | ≥ 7.75 |
| First Class | 6.75≤ CGPA < 7.75 |
| Second Class | 6.00≤ CGPA < 6.75 |

A student with final CGPA (at the end of the PGP) < 6.00 shall not be eligible for the Award of Degree.

## 12.0 WITHHOLDING OF RESULTS

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

## 13.0. TRANSITORY REGULATIONS

13.1    A student who has been detained in any semester of I Year of R22 Regulations due to lack of attendance, shall be permitted to join the same semester of I Year of R22 Regulations and he is required to complete the study of M.Tech programme within the stipulated period of four academic years from the date of first admission in I Year I semester. The R22 Academic Regulations under which a student has been readmitted shall be applicable to that student from that semester.

13.2    The candidate who fails in any subject under R22 regulations will be given two chances to pass the same subject in the same regulations; otherwise, he has to identify an equivalent subject and fulfill the academic requirements of that subject in the subsequent Academic Regulations.

## 14.0 GENERAL

14.1    Credit: A unit 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.

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

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

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

14.5   In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the academic council of the University shall be final.

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

**MALPRACTICES RULES**
**DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS**

| S.No | Nature of Malpractices/Improper conduct | Punishment |
|---|---|---|
| | 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 to 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 subject of the examination). | Expulsion from the examination hall and cancellation of the performance in that subject 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 subject only of all the candidates involved. Incase 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 the subject to the examination (theory or practical) in which the candidate is appearing. | Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that Semester/year.<br><br>The Hall Ticket of the candidate is to be cancelled and sent to the University. |

| 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 subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course 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. |
|---|---|---|
| 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 subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course 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 subject. |
|---|---|---|
| 6. | Refuses to obey the orders of the Chief Superintendent/Assistant   – Superintendent/ 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 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. | In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is  registered against them. |

| 7. | Leaves the exam hall taking away answer script or intentionally tears of the script or any par there of inside or outside the examination hall. | Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course 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 subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. 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 clause6 to 8. | Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. 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 subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. |
|---|---|---|
| 11. | Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny. | Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/year examinations. |
| 12. | If any malpractice is detected which is not covered in the above clauses1to11shall be reported to the University for further action to award suitable punishment. | |

## Malpractices identified by squad or special invigilators

1. Punishments to the candidates as per the above guidelines.
2. Punishment for institutions: (if the squad reports that the college is also involved in encouraging malpractices)
   (i) A show cause notice shall be issued to the college.
   (ii) Impose a suitable fine on the college.
   (iii) Shifting the examination centre from the college to another college for a specific period of not less than one year