



**VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI
INSTITUTE OF ENGINEERING & TECHNOLOGY HYDERABAD
(An Autonomous Institute)**

**ACADEMIC RULES AND REGULATIONS OF TWO YEAR M.TECH. REGULAR
DEGREE PROGRAMME APPLICABLE FOR THE STUDENT BATCHES
ADMITTED FROM THE ACADEMIC YEAR 2018 – 2019 ONWARDS**

1.0 PREAMBLE:

Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology (VNRVJIET) aims at achieving academic excellence by implementing new initiatives in teaching-learning and evaluation processes. Based on the directions of the University Grants Commission (UGC), New Delhi, All India Council for Technical Education (AICTE), New Delhi and Jawaharlal Nehru Technological University (JNTU) Hyderabad, VNRVJIET introduced the Choice Based Credit System (CBCS) in both the under-graduate and post-graduate programmes offered from the academic year 2015 – 2016. Keeping in view of the standardization of the higher education system in India, VNRVJIET is continuing the implementation of CBCS ahead.

2.0 SHORT TITLE, APPLICATION AND COMMENCEMENT:

- These regulations shall be called as the “**VNRVJIET Choice Based Credit System (CBCS) M.Tech. Academic Regulations, 2018**”. In short, it shall be referred as ‘**VNRVJIET M.Tech. R18 CBCS Regulations**’.
- The regulations are quite comprehensive and include definitions of key terms, semester system, credit system, grading system and other relevant details.
- The regulations detailed herein shall apply to all the regular and professional M.Tech. graduate programmes offered by the Institute.
- These regulations shall be applicable and come into force to the student batches admitted from the academic year 2018-2019 onwards.
- The Institute may revise, amend or change the regulations, scheme of examinations and syllabi, from time to time, if found necessary and on approval by the Academic Council of the Institute, keeping the recommendations of the BoS in view.
- Any or all such amendments, shall be effective from such date and to such batches of students including those already undergoing the programme, as may be approved through Academic Council.

3.0 CHOICE BASED CREDIT SYSTEM:

- The **Choice Based Credit System (CBCS)** enables a student to obtain a degree by accumulating the required number of credits prescribed for that degree. Under the CBCS, the requirement for awarding a degree is prescribed in terms of number of credits to be completed by the students. The number of credits earned by the student reflects the knowledge or skill acquired by him / her. Each course is assigned with a fixed number of credits based on the contents to be learned. The student also has choice in selecting courses out of those offered by the various departments. The grade points earned for each course

reflects the student's proficiency in that course.

- The CBCS provides the student flexibility in duration to complete a programme of study. The CBCS facilitates transfer of credits earned in different Departments or institutions of higher education in India.
- The CBCS permits students to:
 1. Choose electives from a wide range of elective courses offered by the departments.
 2. Undergo additional courses of interest.
 3. Adopt an interdisciplinary approach in learning.
 4. Make the best use of expertise of the available faculty.

4.0 ABBREVIATIONS:

| Abbreviation | Full Form |
|--------------|---|
| AAT | Alternative Assessment Tool |
| AC | Academic Council |
| AICTE | All India Council for Technical Education |
| B.Tech. | Bachelor of Technology |
| BIE | Board of Intermediate Education |
| BoS | Board of Studies |
| C | Credit |
| CA | Class Assessment |
| CBCS | Choice Based Credit System |
| CGPA | Cumulative Grade Point Average |
| CIE | Continuous Internal Evaluation |
| CO | Course Outcomes |
| CoE | Controller of Examinations |
| CP | Credit Point |
| D | Drawing |
| DoA | Dean of Academics |
| GO | Government Order |
| GP | Grade Point |
| IAC | Institute Academic Committee |
| JNTUH | Jawaharlal Nehru Technological University Hyderabad |
| L | Lecture |
| M.Tech. | Master of Technology |
| MOOC | Massive Open Online Course |
| NBA | National Board of Accreditation |
| NPTEL | National Programme on Technology Enhanced Learning |
| OBE | Outcome Based Education |
| P | Practical |
| PG | Post-Graduate |
| Ph.D. | Doctor of Philosophy |
| PRC | Project Review Committee |
| PO | Programme Outcomes |
| PSO | Programme Specific Outcomes |

| | |
|----------|---|
| SEE | Semester End Examination |
| SGPA | Semester Grade Point System |
| SRC | Seminar Review Committee |
| SWAYAM | Study Webs of Active Learning for Young and Aspiring Minds |
| T | Tutorial |
| UG | Under-Graduate |
| UGC | University Grants Commission |
| VNRVJIET | Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology |

5.0 NOMENCLATURE:

| S. No. | Keywords | Definition |
|--------|-------------------------------|--|
| 1. | Academic Council: | Highest academic body of the Institute and is responsible for the maintenance of standards of instruction, education and examination within the Institute. Academic Council is an authority as per the AICTE / UGC regulations and it has the right to take decisions on all academic matters including academic research |
| 2. | Academic Plan: | A document defining the course contents and complete details of plan of delivery of the course viz. Course title, Course code, Pre-requisite, Credit structure, team of instructors, Course objectives, Course rationale, Course Outcomes and the relevant syllabus, textbook(s) and reference books, Course delivery plan and session plan, evaluation method, chamber consultation hour, course notices and other course related aspects |
| 3. | Academic Year: | A period that is necessary to complete courses of study. It consists of two consecutive (one odd + one even) semesters |
| 4. | Admission Procedure: | As prescribed by the Government of Telangana |
| 5. | Audit Course: | A course of study which has neither grade nor credits |
| 6. | Autonomous Institute: | An Institute designated as 'Autonomous' by the University Grants Commission (UGC), New Delhi in concurrence with the affiliating University i.e., Jawaharlal Nehru Technological University, Hyderabad and Telangana State Government |
| 7. | Backlog Course: | A course is considered to be a backlog course if the student has obtained a Fail (F) grade |
| 8. | Basic Science Courses: | Courses of foundational nature in the areas of Mathematics, Physics, Chemistry, Biology etc. |
| 9. | Board of Studies: | An authority as defined in the UGC regulations, and constituted by the Principal for each of the department separately. The board is responsible for curriculum design and update in respect of all the programs offered by a department |

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| 10. | Branch: | A discipline or specialization of a degree programme like Civil Engineering, Mechanical Engineering etc. |
| 11. | Certificate Course: | A non-credit course that makes a student gain hands-on expertise and skills required for holistic development |
| 12. | Choice Based Credit System (CBCS): | A system which provides choice for students to select from the prescribed courses |
| 13. | Compulsory Course: | Course required to be undertaken for the award of the degree as per the program |
| 14. | Continuous Internal Evaluation (CIE): | Summative assessments used to evaluate student learning, acquired skills, and academic attainment during a course |
| 15. | Course: | A course offered for learning in a particular semester by the Institute. These could be theory / laboratory / project work / mini-project / internship etc. and may comprise of lectures / tutorials / practicals / assignments / examination / viva-voce etc. All the courses need not carry the same weightage. A course is defined through course objectives and course outcomes |
| 16. | Course Outcomes (CO): | Statements describing essential skills that each and every student need to acquire at the end of a course. They can be from 3 to 5 for all the courses |
| 17. | Course Registration: | Process of enrolling into a set of courses in a semester of the program |
| 18. | 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 lecture hour of teaching (lecture or tutorial) or two hours of practical / field -work per week |
| 19. | Credit Based Semester System (CBSS): | A system which prescribes the number of credits to be secured by the student for the requirement of award of degree |
| 20. | Credit Point: | A product of grade point and number of credits for a course |
| 21. | Credit Transfer: | The procedure of granting credit(s) to a student for course(s) undertaken at another institution |
| 22. | Cumulative Grade Point Average (CGPA): | A measure of overall cumulative performance of a student over all semesters. It 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. It is expressed up to two decimal places |
| 23. | Curriculum: | Curriculum incorporates all the courses that are offered in a specific discipline. It also indicates the planned interaction of students with instructional content, materials and resources |
| 24. | Degree: | A student who fulfills all the programme requirements is eligible to receive a degree |
| 25. | Department: | An academic entity that conducts relevant curricular and co-curricular activities, involving both teaching |

- and non-teaching staff and other resources
26. **Detention in a Course:** Student who does not secure minimum required attendance in a course shall be detained in that course
 27. **Dropping of Courses:** A student who doesn't want to register certain courses should do so in writing in a prescribed format before the commencement of semester
 28. **Engineering Science Courses:** Courses belonging to basic evolutionary aspects of engineering from Mechanical Engineering, Electrical Engineering etc. like Workshop Practice, Engineering Graphics, Programming through C, Basic Electrical Engineering, Engineering Mechanics, etc.
 29. **Evaluation:** Evaluation is the process of judging the academic work done by the student in his / her courses. It is done through a combination of continuous in-semester assessment and semester end examinations
 30. **Grade Point:** A numerical weight allotted to each letter grade on a 10-point scale
 31. **Grade Sheet:** Based on the grades earned, a grade sheet shall be issued to all the registered students after every semester. The grade sheet shall display the course details (Course title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester
 32. **Humanities & Social Sciences:** Courses offered in the area of humanities and liberal arts
 33. **Industrial Visit:** Visit to a company / firm as per the academic requirement
 34. **Institute:** VNRVJIET
 35. **Course Projects:** A student-centric learning methodology wherein students work as individuals or in teams in a laboratory for design, problem-solving, decision making, and investigative activities
 36. **Letter Grade:** An index of the performance of students in a said course. Grades are denoted by letters like O, A+, A, B+, B, C, F, Ab etc.
 37. **Mandatory Courses:** Compulsory non-credit courses that a student need to study as prescribed in the programme
 38. **Massive Open Online Courses (MOOC):** Open access online courses aimed at providing ways to learn new skills
 39. **Open Elective Courses:** Courses of interdisciplinary nature offered to all the students of various programs across the Institute
 40. **Outcome Based Education:** An educational theory that bases each part of an educational system around goals (outcomes). Each student should have achieved the goal by the end of the educational experience
 41. **Overloading:** Registering for more number of credits than normally prescribed by the programme in a semester
 42. **Pre-requisite:** A course whose knowledge is required for

43. **Professional Core Courses:** registration into higher level course
Courses that are fundamental constituents of the respective engineering discipline
44. **Professional Elective Courses:** Courses that are discipline-specific
45. **Programme:** A set of courses offered by the Department leading to the award of degree in that program
46. **Programme Outcomes (PO):** Statements describing the essential skill sets that each and every student need to possess at the time of graduation. These skill sets are in the areas of employability, entrepreneurial, social and behavioral
47. **Programme Specific Outcomes (PSO):** Statements that describe what the graduates of a specific programme should be able to do
48. **Project:** A credit-based course that a student has to undergo, as prescribed in the programme, which involves the student to undertake a research or design that is carefully planned to achieve a particular aim
49. **Re-appearing:** A student can reappear only in the semester end examination for the theory component (SEE) of a course, subject to the regulations contained herein.
50. **Regulations:** The rules and regulations contained herein that are common to all the M.Tech. programs offered by the Institute and designated as “VNRVJIET R18 Regulations”
51. **Re-registering:** A student desiring to repeat a course is permitted to do so, subject to the regulations contained herein
52. **Semester:** Each semester shall consist of 16 weeks of academic work excluding examination and evaluation
53. **Semester End Examination:** An examination conducted at the end of a course of study
54. **Semester Grade Point Average:** A measure of performance of work done in a semester. It is ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places
55. **Substitute Courses:** A course that is offered in place of another course that is already studied by the student and is repeated in the semester of study.
56. **Underloading:** Registering for lesser number of credits than normally prescribed by the programme in a semester.
57. **University:** Jawaharlal Nehru Technological University Hyderabad
58. **Virtual Laboratories:** Web enabled experiments for remote operation so as to increase the curiosity and innovation of students and provide hands-on sessions.

6.0 POST-GRADUATE DEGREE PROGRAMMES ON OFFER:

VNR VJIET offers 2-year (4 semesters) **Master of Technology** (M. Tech.) degree programme, under **Choice Based Credit System (CBCS)**, with effect from the academic year 2018 - 19, in the

branches as shown in the Table 1.

Table 1 M.Tech. programmes of study on offer

| Department Offering the Programme | Branch / Specialization |
|-----------------------------------|--|
| CE | Structural Engineering |
| | Geotechnical Engineering |
| | Highway Engineering |
| EEE | Power Electronics |
| | Power Systems |
| ME | Advanced Manufacturing Systems |
| | CAD/CAM |
| ECE | VLSI System Design |
| | Embedded Systems |
| CSE | Software Engineering |
| | Computer Science and Engineering |
| EIE | Electronics and Instrumentation |
| IT | Computer Networks and Information Security |

7.0 ELIGIBILITY FOR ADMISSION:

- Admission to the above programmes shall be made subject to the eligibility and qualifications as prescribed from time to time.
- Admissions shall be made on the basis of Rank / Percentile earned by the candidate in the relevant GATE examination / merit rank obtained by the qualifying candidate in the entrance test - PGECET conducted by the Government of Telangana for M.Tech. programmes or as decided by TSCHE subject to the reservations as prescribed by the University / State Government / on the basis of any other order of merit as decided by TSCHE from time to time.

8.0 MEDIUM OF INSTRUCTION:

The medium of instruction shall be **English** for all the courses including their content delivery and examinations, seminars, presentations and project evaluation as prescribed in the programme curriculum.

9.0 M.TECH. PROGRAMME STRUCTURE:

The structure of the M.Tech. programmes on offer at VNRVJIET are based on the **Choice Based Credit System (CBCS)** and **Credit Based Semester System (CBSS)** as defined by the UGC and the curriculum / course structure as suggested by the AICTE in its Model Curriculum.

Semester Scheme:

- The M.Tech. programmes offered at VNRVJIET follow **semester scheme** pattern.
- The duration of a M.Tech. programme shall be of **2 academic years**.
- Each academic year shall have **2 semesters** i.e., Odd and Even semesters and shall be counted as **first semester, second semester, third semester** and **fourth semester**.
- Each semester shall consist of **16 weeks** of academic work excluding examination and evaluation.
- Each semester is structured to provide a total of **68 credits** for the entire M.Tech. programme.
- Each semester shall have '**Continuous Internal Evaluation (CIE)**' and '**Semester End Examination (SEE)**'.

- Each student shall secure a total of **68 credits with a CGPA \geq 6.0** required for the completion of the PG programme and the award of the M.Tech. degree.
- A student after securing admission into a M.Tech. programme at VNRVJIET shall pursue and acquire the M.Tech. degree in a **minimum period of two academic years i.e., 4 semesters and a maximum period of four academic years i.e., 8 semesters** starting from the date of commencement of I year I semester, failing which the student shall forfeit the seat in M.Tech. programme.

10.0 DURATION OF THE ACADEMIC PROGRAMMES:

- Under CBCS, programme duration shall be defined by the period in which a student earns the prescribed credits for the award of M.Tech. degree.
- Hence, it is possible for an outstanding student to qualify for the award of degree in a shorter time than that of the duration specified for the concerned programme. However the M.Tech. degree shall be issued at the end of normal duration of the programme i.e., two years.

❖ Normal Duration:

- The duration of the M.Tech. degree programme shall be **two years**.

❖ Maximum Duration:

- The maximum period in which a student can complete a full time M.Tech. degree programme shall be **twice the normal duration of the programme, i.e., four years (8 semesters) for M.Tech. degree**.
- The maximum period for a programme shall also be dictated by the fact that a student has to demonstrate the prescribed minimum academic performance by registering for the prescribed minimum number of credits in every semester, for continuing in the programme. This period can be equal to or lesser than the maximum period indicated as indicated above.

11.0 COURSES AND CREDIT STRUCTURE:

- Every course in the M.Tech. programme of study has a Lecture-Tutorial-Practical (L-T-P) component attached to it. Based upon the L-T-P structure, the credits are allotted to a course using the criteria as shown in the Table 2.

Table 2 Contact hour and credit structure

| Type of Course | | Contact Hours / Week | Credits (C) |
|----------------|---------------|----------------------|-------------|
| Theory | Lecture (L) | 1 | 1 |
| | Tutorial (T) | 1 | 1 |
| Laboratory | Practical (P) | 2 | 1 |
| Drawing | Drawing (D) | 2 | 1 |

- Every course of the M.Tech. programme shall be offered by a specific section/ branch / department. The department / section unique codes are given in the Table 3.

Table 3 Course offering section / branch / department

| Course Offering Section / Branch / Department | Code |
|---|------|
| English | EN |
| Mathematics | MT |
| Management | MG |
| Humanities & Social Sciences | HS |
| Structural Engineering | ST |

| | |
|--|----|
| Geotechnical Engineering | GT |
| Highway Engineering | HW |
| Power Electronics | PL |
| Power Systems | PS |
| Advanced Manufacturing Systems | AM |
| CAD/CAM | CD |
| VLSI System Design | VS |
| Embedded Systems | ES |
| Software Engineering | SW |
| Computer Science and Engineering | CP |
| Electronics and Instrumentation | LI |
| Computer Networks and Information Security | CN |

❖ **Structure:**

- Every M.Tech. programme of study shall be designed to have theory and laboratory courses. In addition, a student shall carry out research methodology & IPR, mini project, technical seminar, project/dissertation and audit courses as prescribed in the curriculum of the programmes.
- Every course offered under a M.Tech. programme shall be placed in one of the course categories with minimum credits as listed in the Table 4.

Table 4 Category of Courses, their Codes and Distribution of Credits

| Type of Courses | Course Category | Code | Range of Credits | Credit Composition (%) |
|-----------------------------|-----------------------|------|------------------|------------------------|
| Compulsory Courses | Professional Core | PC | 24 | 35.30 |
| | Project | PW | 22 | 38.23 |
| | Technical Seminar | PW | 02 | |
| | Mini-project | PW | 02 | |
| Elective Courses | Professional Elective | PE | 15 | 22.06 |
| | Open Elective | OE | 03 | 4.41 |
| Mandatory Courses | Audit | AU | Non-Credit | -- |
| | Mandatory | MN | | -- |
| Total | | | 68 | 100 |
| MOOC | Online | OL | -- | -- |
| Virtual Laboratories | Online | VL | -- | -- |

Table 5 Description of Courses

| Broad Course Classification | Course Group/ Category | Description of Courses |
|-----------------------------|------------------------|--|
| Core | Professional Core | Includes core courses related to the parent discipline / department / branch of Engineering |
| | Project Work | M.Tech. Project / Dissertation Part-I and Part-II |
| | Mini-project | M.Tech. Mini-project |
| | Technical Seminar | Seminar on a technical topic |
| Elective | Professional Electives | Includes elective courses related to the parent discipline / department / branch of Engineering |
| | Open Electives | Elective courses which include inter - disciplinary courses or courses in an area outside the parent discipline / department / branch of Engineering |
| Mandatory | - | Mandatory non-credit courses |
| Audit | - | |

12.0 REGISTRATION / DROPPING / OFFERING OF COURSE(S):

❖ Course Registration:

- All the students must compulsorily register for course work at the beginning of each semester as per the schedule mentioned in the Academic Calendar.
- It is essential for the student to register for all the prescribed courses in time.
- The registration shall be organized by the department under the supervision of the Head of the Department.
- A 'faculty advisor or coordinator' shall be assigned to each specialization, who shall advise the students about the post graduate programme, its course structure and curriculum, choice / option for course / courses, based on their competence, progress, pre-requisites if any and interest.
- The academic section of the college invites 'registration form' from students before beginning of the semester through '**online registration**', ensuring '**date and time stamping**'.
- The online registration requests for any 'current semester' shall be **completed before the commencement of SEEs (Semester End Examinations) of the 'preceding semester'**.
- A student shall register courses online with the approval of faculty mentor. A copy of it shall be retained by the student and other copies be submitted online to the concerned HoD, faculty mentor and Dean of Academics.
- A student may be permitted to register for the courses of his / her choice in a semester with credits as prescribed in the course structure of the concerned M.Tech. programme with a deviation of $\pm 15\%$ credits in I & II semester and $\pm 22\%$ credits (rounded off to lower digit) in III & IV semester respectively for defining minimum and maximum credits, based on progress and SGPA / CGPA, and completion of the 'pre-requisites' as indicated for various courses, in the course structure of the programmes and syllabus contents.
- Choice for 'additional courses' to reach the maximum permissible limit of $+ 15\%$ credits in I & II semester and $+ 22\%$ credits in III & IV semester respectively as specified in the course

structure of the concerned programme, must be clearly indicated, which needs the specific approval and signature of the faculty advisor / coordinator.

- Additional courses shall be offered only upon meeting the prerequisites, if any, as mentioned in the programme curriculum.
- **Course options exercised through online registration shall be FINAL and cannot be changed or inter-changed; further, alternate choices also shall not be considered.**
- However, if the course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have an alternate choice either for a new course (subject to offering of such a course), or for another existing course (subject to availability of seats). Such alternate arrangements shall be made by the Head of the Department, with due notification and time-framed schedule, within the **first week** after the commencement of class-work for that semester.
- **IN ABSENTIA** registration **shall not be permitted** under any circumstance.
- At the time of registration, students should have cleared all the dues of Institute and Hostel in the previous semesters, paid the prescribed fees for the current semester and not been debarred from institute for a specified period on disciplinary or any other ground.

❖ **Open Elective Courses:**

- The students have to choose **one open elective course in third semester (II year I semester)** from the list of open electives as prescribed in the course structure of the programme.

❖ **Professional Elective Courses:**

- Students have to register for a total of **05 professional elective courses** (PE-I to PE-V) from the list of professional elective courses as prescribed in the programme course structure.
- However, the students of a particular discipline can register for discipline / interdisciplinary courses of other disciplines provided they have met the pre-requisite or when pre-requisite is waived by Dean of Academics.

❖ **Dropping of Courses:**

- Dropping of one or more courses may be permitted, only after obtaining prior approval from the faculty advisor / coordinator (subject to retaining of minimum credits as prescribed in these regulations), **'within a period of 15 days'** from the beginning of the current semester for maintaining studentship.
- The dropped courses are not recorded in the Grade Card.
- Student must complete the dropped course by registering it as and when offered in order to earn the required credits. This is in addition to the minimum number of credits that are required to continue studentship in a semester. However, the total credits registered in a semester should not exceed the maximum number of credits permitted to register in that semester.

13.0 ATTENDANCE REQUIREMENTS AND DETENTION POLICY:

- A student shall maintain a **minimum required attendance of 75 % in all the courses.**
- Shortage of attendance up to **10 %** i.e., attendance between **65 % to 75 %** in each course of a semester, may be condoned by the Institute Academic Committee based on the rules prescribed by the Academic Council of the Institute from time to time.
- **Shortage of attendance below 65 % in any course shall in NO CASE BE CONDONED.**
- However, a student shall secure **minimum required attendance of 75 % in atleast three (03) theory courses** in I year I semester to get promoted to I year II semester and in I year II semester to get promoted to II year I semester respectively.

- A stipulated fee per course shall be payable towards condonation of shortage of attendance.
- **Students whose shortage of attendance is not condoned in a course (s) OR who have not paid the stipulated fee OR who have not cleared any other due to the Institute in any semester are not eligible to write the semester end examination (SEE).**
- Students who **do not meet the minimum required attendance** in atleast **03** theory courses, shall be detained in the semester and their registration for that semester **shall stand cancelled. They shall not be promoted to the next semester.**
- Students detained in a course(s) shall seek re-admission for all such courses as and when offered.
- Students detained in a semester shall seek re-admission into that semester as and when offered.
- However, in the case of re-admission to a semester (semester detention due to lack of attendance) by a student, academic regulations applicable to the semester in which re-admission is sought shall be applicable to the re-admitted student.
- In the case of re-admission by a student, academic regulations applicable at the time of student admission in the programme shall be applicable.
- In case, if there are any professional electives and / or open electives, the same may also be re-registered if offered. However, if those electives are not offered in later semesters, then alternate electives may be chosen from the **same** set of elective courses offered under that category.
- Any student against whom any disciplinary action is pending shall not be permitted to attend semester end examinations in that semester.
- A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class.

14.0 MINIMUM ACADEMIC REQUIREMENTS:

- In addition to the attendance requirements mentioned in 13.0 of these regulations for the award of M.Tech. degree, a student must satisfy the minimum academic requirements as given below:
- A student shall be deemed to have satisfied the minimum academic requirements and earn the credits for each theory or practical or research methodology and intellectual property rights course, if he/she secures
 - ✓ A **minimum of 40 % marks** for each theory course in the **Semester End Examination (SEE)**, and
 - ✓ A **minimum of 50 % marks** for each theory course considering **both Continuous Internal Evaluation (CIE) and Semester End Examination (SEE)** taken together.
- A student shall be deemed to have satisfied the minimum academic requirements and earn the credits allotted to technical seminar and mini-project courses, if he/she secures
 - ✓ A **minimum of 50 % marks** for technical seminar and mini-project courses in the **CIE and SEE** taken together
- A student shall be treated as failed, if he/she
 - ✓ **does not submit a report** of technical seminar and mini-project courses OR
 - ✓ **does not make a presentation** of the same before the evaluation committee as per the schedule, or
 - ✓ **secures less than 50 % marks** in evaluation.
- A student shall **register** for all the courses covering **68 credits** as specified and listed in the course structure of the M.Tech. programme, fulfills all the attendance and academic requirements for **68 credits**, **'earn all 68 credits' by securing SGPA ≥ 6.0** (in each semester) and CGPA (at the end of each successive semester) **≥ 6.0** to successfully complete the post

graduate programme.

- If a student fails to secure a pass grade in a particular course, it is mandatory that he/she shall register and reappear for the examination in that course during the next semester when SEE is conducted in that course. It is mandatory that he/she should continue to register and reappear for the examination till he secures a pass grade.
- A student eligible to appear in SEE of any course, but remains absent from it or gets failed (failing to secure 'B' grade or above) may reappear for that course in the supplementary SEE as and when conducted. In such cases, CIE assessed earlier for that course shall be carried over and added to the marks to be obtained in the supplementary SEE examination for evaluating the performance in that course.
- **A student detained in a SEMESTER due to shortage of attendance**, may be re-admitted when the same semester is offered in the next academic year for fulfillment of academic requirements.
- Academic regulations applicable to the semester in which re-admission is sought shall be applicable to the re-admitted student.
- **A student detained in a COURSE due to shortage of attendance**, may be re-admitted in the course when the same course is offered in the next academic year for fulfillment of academic requirements.
- **A student shall be given one chance to re-register**, after completion of the course work, for each course, provided the **internal marks (CIE) secured by a student are less than 50 % and he has failed in the SEE**. In such a case, a student may re-register for the course(s) with prior permission and secure the minimum required attendance. Attendance in the re-registered course(s) shall be calculated separately to become eligible to write the semester end examination (SEE) in the re-registered course(s).
- Re-registration of course(s) is **allowed only if those particular re-registration course(s) are the hindrance for the award of degree**.
- Re-registration is allowed only in those cases where the student doesn't have any course(s) yet to pass other than the re-registration course(s) where the CIE marks are less than **50 %**.
- **However, in the case of re-registration of course(s) by a student, academic regulations applicable at the time of student admission in the programme shall be applicable**.
- **A student detained due to shortage of attendance in any course(s) or in any semester, shall not be allotted any grade in such course(s) and no SGPA / CGPA calculations shall be done for the entire semester**.
- A student shall register and put up **minimum academic requirement in all 68 credits and earn all 68 credits** for the award of M.Tech. degree.
- Students who **fail to earn atleast 68 credits** as indicated in the course structure **within four academic years** counting from the year of their admission shall **forfeit their seat in M.Tech. programme and their admission stands cancelled**.

15.0 DISTRIBUTION OF MARKS AND EVALUATION METHODOLOGY:

- The performance of a student in each semester shall be evaluated course wise with a maximum of **100 marks for theory** and **100 marks for practical courses**. In addition, **technical seminar** and **mini-project** courses shall be evaluated for **100 marks** each.

15.1 Theory Courses:

- The syllabus for the theory courses shall be divided into **SIX units** and each unit carries equal weightage in terms of marks distribution.
- For theory courses, the distribution of marks shall be **40 marks for Continuous Internal Evaluation (CIE)** and **60 marks for the Semester End Examination (SEE)**.

❖ **Continuous Internal Evaluation (CIE - 40 M):**

- Continuous Internal Evaluation (CIE) shall consist of sessional examination (SE - 30 M) and Class Assessment (CA - 10 M).

➤ **Sessional Examination (SE - 30 M):**

- For theory courses, **two sessional examinations** shall be conducted in each semester as per the academic calendar. Each sessional examination shall be evaluated for **30** marks.
- Question paper pattern for sessional examination (**30** Marks) shall be as follows:
3 X 10 M = 30 M
 - a. There shall be one question from each unit with internal choice i.e., 'either' 'or' choice.
 - b. The student has to answer one question from each unit.
 - c. There could be a maximum of two sub divisions in a question i.e., (a) and/or (b).
- **Average** of two sessional examination marks shall be calculated and used as the final sessional marks for each course.

➤ **Class Assessment (CA - 10 M):**

- **Two class assessments** (CA) consisting of alternative assessment tools like online quiz / assignment / objective exam / course project / case study etc. shall be conducted covering the syllabus that is completed at the time of conducting the CA and evaluated for **10** marks each.
- The first and second CAs shall be conducted during the instruction days as mentioned in the Academic Calendar.
- **Average** of two CAs shall be calculated and used the final class assessment marks.
- The valuation and verification of answer scripts of CIE shall be completed within a week after the conduct of the examination.

❖ **Semester End Examination (SEE - 60 M):**

- The SEE shall be conducted at the end of semester for a total of **60** marks and **3** hours duration.
- The syllabus for the theory courses is divided into **SIX** units and each unit carries equal weightage in terms of marks distribution.
- Question paper pattern for SEE (**60** Marks) shall be as follows:
6 X 10 M = 60 M
 - a. There shall be ONE question from each unit with internal choice i.e., 'either' 'or' choice.
 - b. The student has to answer one question from each unit.
 - c. There could be a maximum of two sub divisions in a question i.e., (a) and/or (b).

15.2 Practical Courses:

- For practical courses, there shall be a **continuous internal evaluation (CIE)** during the semester for **40 marks** and **semester end examination (SEE)** for **60 marks**. Out of the **40** marks allocated to CIE, **10 marks** shall be for **day-to-day work** in the laboratory, **10 marks** for the **practical examination** to be conducted at the end of semester, **10 marks** for **course project/viva** and **10 marks** for **laboratory record**.
- Laboratory SEE shall be conducted at the end of semester for a total of **60** marks of **3** hours duration.
- SEE shall be conducted by two examiners, one internal and other external concerned with the subject of the same / other department / Industry.
- The evaluation shall be done as per the standard format provided by DoA.

NOTE:

- Any student who shall **remain absent for any of the CIE**, for any reason what so ever, shall be deemed to have **secured 'zero' marks in the examination** and **no makeup examination** shall

be conducted.

15.3 Supplementary Semester End Examinations:

- Supplementary examinations shall be conducted along with regular semester end examinations (SEE).
- During SEE of even semester, supplementary examinations of odd semester shall be conducted and during SEE of odd semester, supplementary examinations of even semester shall be conducted.

15.4 Technical Seminar:

- A student shall present a seminar on a technical topic during the first semester (I year I semester) of the M.Tech. programme.
- A student, under the supervision of a faculty member, shall collect literature on a technical topic of his / her choice, critically review the literature and submit it to the Seminar Review Committee (SRC) in a report form as prescribed by the Academic Section.
- The SRC shall consist of Head of the Department, faculty supervisor and a senior faculty member of the specialization / department.
- Student shall make an oral presentation before the SRC after clearing the **plagiarism check**.
- Evaluation of the technical seminar shall consist of CIE and SEE for a total of **100** marks.
- CIE shall be carried out for **40 marks** on the basis of **review presentation** as per the academic calendar and evaluation format provided by DoA.
- SEE shall be carried out at the end of semester for **60 marks** on the basis of an oral presentation and submission of mini-project report after clearing the plagiarism check.
- A candidate has to secure a **minimum of 50 %** to be declared successful.
- Prior to the submission of seminar report to the SRC, its soft copy shall be submitted to the PG Coordinator for **PLAGIARISM check**.
- The report shall be accepted for submission to the SRC, if the similarity index is **less than 30 %**. If the similarity index is more than the required percentage, the student shall be advised to modify the content accordingly and **re-submit** the soft copy of the report **after one week**.
- The **maximum number of re-submissions** of seminar report after plagiarism check is **limited to TWO**. After this, the student shall be deemed to secure 'Fail' grade in the Technical Seminar and shall re-register for it in the next semester.

15.5 Mini-Project:

- A student shall undergo a mini-project during the second semester (I year II semester) of the M.Tech. programme.
- A student, under the supervision of a faculty member, shall collect literature on an allotted project topic of his / her choice, critically review the literature, carry out the mini-project, submit it to the department in a report form as prescribed by the Academic Section and shall make an oral presentation (seminar) before the departmental Project Review Committee (PRC).
- Evaluation of the mini-project shall consist of CIE and SEE and shall be done by a Project Review Committee (PRC) consisting of the Head of the Department, faculty supervisor and a senior faculty member of the specialization / department for a total of **100** marks.
- CIE shall be carried out for **40** marks on the basis of **review presentation** as per the academic calendar and evaluation format provided by DoA.
- SEE shall be carried out at the end of semester for **60** marks on the basis of an oral presentation and submission of mini-project report after clearing the plagiarism check.
- A student has to secure a **minimum of 50 %** marks to be declared successful.
- Prior to the submission of mini-project report to the PRC, its soft copy shall be submitted to

the PG Coordinator for **PLAGIARISM check**.

- The mini-project report shall be accepted for submission to the PRC, if the similarity index is **less than 30 %**. If the similarity index is more than the required percentage, the student shall be advised to modify the content accordingly and **re-submit** the soft copy of the report **after one week**.
- The **maximum number of re-submissions** of mini-project report after plagiarism check is **limited to TWO**. After this, the student shall be deemed to secure 'Fail' grade in the mini-project and shall re-register for it in the next semester.

15.6 Project:

- A student shall be permitted to register for the project after satisfying the attendance requirement in all the courses, i.e., theory and practical courses.
- A Project Review Committee (PRC) shall be constituted with Head of the Department as Chairperson, PG Coordinator, Project Supervisor and one senior faculty member of the Department offering the M. Tech. programme.
- Minimum duration of the project work shall be **40 weeks** and spread over two semesters.
- There shall be three project reviews namely Project Review I, Project Review II and Project Review III.
- In **Project Review I**, a student, in consultation with his Project Supervisor, shall present the title, objective and plan of action of his project work to the Project Review Committee (PRC) for approval **within four weeks from the commencement of third semester (II year I semester)**. **A student can initiate the project work only after obtaining the approval of the PRC.**
- If a student 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 shall start from the date of change of supervisor or topic, as the case may be.
- The work on the project shall be initiated at the beginning of the third semester (II year I semester) and the **duration of the project** is of **two semesters**.
- The **Project Review II** in third semester (II year I semester) shall carry CIE of **100 marks**. Evaluation shall be done by the **PRC for 50 marks** and **project supervisor** shall evaluate it for remaining **50 marks**. The project supervisor and PRC shall examine the Problem Definition, Objectives, Scope of Work, Literature Survey in the same domain and progress of the project work.
- A student shall **secure a minimum of 50% marks** to be declared **successful in Project Work Review II**. If he fails to obtain the minimum required marks, he shall reappear for Project Review II as and when conducted as per the academic calendar.
- **Project Review III** in fourth semester (II year II semester) shall carry **CIE of 100 marks**. Evaluation shall be done by the **PRC for 50 marks** and the **project supervisor** shall evaluate it for remaining **50 marks**. The PRC shall examine the overall progress of the project work and decide whether or not the project is eligible for final submission.
- A student shall **secure a minimum of 50% of marks** to be declared **successful in Project Work Review III**. If he fails to obtain the required minimum marks, he has to reappear for Project Review III as and when conducted as per the academic calendar.
- At the end of fourth semester (II year II semester), the Semester End Examination (SEE) of Project i.e., **project viva-voce** shall be conducted and evaluated for **100 marks** by an external examiner from **industry / academia**. A student shall **secure a minimum of 50% marks** in the SEE to be declared as successful in the project viva-voce examination.

- A student shall submit his project progress report in two stages **atleast with a gap of three months** between them.
- Project Review II and Project Review III shall be carried out in two phases namely **Phase-I i.e., regular** and **Phase-II i.e., supplementary** as defined in the academic calendar.
- Phase-II (supplementary) shall be conducted only for those students who could not clear the project review in phase-I (regular).
- Those students who could not secure minimum marks in Project Review II [Phase-II] shall reappear for Project Review II at the time of Project Review III [Phase-I]. These students shall reappear for Project Review III in the next academic year at the time of Project Review II [phase I], only after completion of Project Review II, followed by Project Review III.
- Those students who could not secure minimum marks in Project Review III [Phase-II] shall reappear for Project Review III in the next academic year only at the time of Project Review II [Phase-I].
- After approval from the PRC, a soft copy of the thesis shall be submitted for **PLAGIARISM check** to the Examination Branch. The thesis shall be accepted for submission and evaluation, if the similarity index is **less than 30%**. If the similarity index has more than the required percentage, the student shall be advised to modify the thesis accordingly and **re-submit the soft copy of the thesis after one month**. The plagiarism report should be included in the final thesis. The **maximum number of re-submissions of thesis after plagiarism check is limited to TWO**. After that, the candidate has to register for the project work and work for two semesters. After three attempts, the admission is liable to be cancelled.
- 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.
- A student shall be permitted to **submit the Project Thesis** subjected to **fulfilling** the following **conditions**:
 - ✓ **Successful completion** of all theory, practical and **project related courses** including **mandatory / audit courses**
 - ✓ **Submission not earlier than 40 weeks** from the date of approval of the project work by the PRC.
 - ✓ Presentation of the project work in **Show and Tell** activity
 - ✓ Publication of a minimum of one research paper (covering **atleast 75 %** of the project work) in high impact factor peer-reviewed national / international journals / conferences indexed in **SCOPUS / Web of Science / SCI etc.** OR Publication of a **Patent** based on the project work. Copy of the paper / patent to be enclosed at the end of the thesis.
 - ✓ Similarity index is **less than 30 %** in the **Plagiarism** check. Certificate indicating the same to be attached in the thesis.
 - ✓ **Approval** given by the **PRC** based on **successful completion of Project Reviews**.
- **Three copies** of the Project Thesis certified by the supervisor shall be submitted to the Examination branch.
- The thesis shall be adjudicated by an external examiner selected by the Principal / Chief Controller of Examinations. For this, the supervisor concerned and Head of the Department shall submit a panel of three examiners from among the list of experts in the relevant specialization to the Principal / Chief Controller of Examinations.
- If the report of the external examiner is unsatisfactory, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unsatisfactory again, the thesis shall be summarily rejected. Subsequent actions for such dissertations may be considered, only on

the specific recommendations of the external examiner and / or Project Review Committee. No further correspondence in this matter shall be entertained, if there is no specific recommendation for resubmission.

- If the report of the examiner is satisfactory, the Head of the Department shall coordinate and make arrangements for the conduct of Project Viva-Voce examination. The 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. The candidate has to secure a **minimum of 50 % of marks** in the Project Evaluation (Viva-Voce) examination.
- If the student fails to fulfill the requirements as specified in these regulations, he shall reappear for the Viva-Voce examination only after three months. In the reappeared examination also, if he fails to fulfill the requirements, he shall not be eligible for the award of the degree, unless he is asked to revise and resubmit his project work by the board within a specified time period (in any case within four years from the date of commencement of his first year first semester).
- SEE marks of project must be submitted to the Examination branch on the day of the examination.

15.7 MOOC:

- Meeting with the global requirements, to inculcate the habit of self-learning and in compliance with the UGC guidelines, MOOC (Massive Open Online Courses) have been introduced in these regulations.
- The proposed MOOCs would be additional choices in all the elective group courses subject to their offering in the department as well as their availability in the MOOC platform during the respective semesters.
- Concerned departments shall declare the list of the courses that a student can pursue through MOOCs at the beginning of the semester.
- Students interested in pursuing MOOCs shall register the course title at their department office at the start of the semester against the courses that are announced by the department.
- Course content for the selected MOOCs shall be drawn from the respective MOOCs link or shall be supplied by the department.
- Course progress shall be monitored by the course coordinator designated by the HoD.
- Assessment & evaluation of the courses shall be done by the respective MOOC Coordinator.
- Grade obtained through the evaluation of the selected course pursued through MOOC shall be considered for the SGPA / CGPA calculation.
- Three credits shall be awarded upon successful completion of each MOOC.

15.8 Value Added Courses:

- The value added courses / certificate courses offered through joint ventures with various industries / organizations provide ample scope for the students as well as faculty to keep pace with the latest technologies pertaining to their chosen field of studies.
- A plenty of value added programmes shall be proposed by the departments one week before the commencement of classes.
- The students are given the option to choose the course inclinations as per their choice.
- Students interested in pursuing value added courses shall register for the courses in the department office at the beginning of the semester against the courses that are announced by the department.
- Course progress shall be monitored by the course coordinator designated by the HoD.
- Result of value added courses shall be declared with **“Satisfactory” or “Not Satisfactory”** performance.

- Grade obtained through value added course shall not be considered for the SGPA / CGPA calculation.
- The student is provided the **option** of pursuing **certificate courses** of **40 hours duration** during his / her course of study through **MOOCs platform** like **SWAYAM-NPTEL online courses, Coursera online courses, BEC certification courses** etc.

15.9 Mandatory and Audit Courses:

- A student shall pursue the entire mandatory and audit courses as specified in the course structure of the M.Tech. programme.
- These courses are among the compulsory courses and do not carry any credits.
- The students shall have four chances in total to clear a specific mandatory and audit course.
- Mandatory courses shall not carry any credits but, securing **50 marks out of 100**, shall be the **necessary requirement** for the student to qualify for the **award of Degree**.
- Result of mandatory and audit courses shall be declared with **“Satisfactory”** or **“Not Satisfactory”** performance.
- No marks or letter grade shall be allotted.

15.10 Virtual Laboratories:

- The Virtual Laboratories are internet enabled experiments for remote operation so as to enhance the curiosity and innovation of students and provide hands-on sessions. The main aim of virtual labs is to enthuse the students about performing ‘experiments’ and thereby getting them interested in their respective disciplines in a meaningful way. It is expected that the competence level of the engineering students will enhance through the use of these labs.
- Advanced laboratories / experiments that are not existing in the Institute and are required for supplementing the knowledge gained in specific course(s) may be pursued by the students through the use of Virtual Labs.
- Departments offering M.Tech. programmes shall define the list of virtual laboratories that a student can take up during the duration of course of study.
- The decision to pursue a virtual laboratory course by a student shall be optional and also in addition to the mandatory requirement of pursuing practical courses as specified in the course structure of the programme.
- The virtual laboratories / experiments that a student decides to pursue must be communicated to the Academic Section through HoD.

16.0 CONDUCT OF SEMESTER END EXAMINATIONS AND EVALUATION:

- Semester end examination (SEE) shall be conducted by the Controller of Examinations (COE) by inviting Question Papers from the External Examiners.
- Question papers may be moderated for the coverage of syllabus, pattern of questions by an examiner appointed by the CoE. The appointed examiner shall prepare a detailed answer key and scheme of valuation and submit it to the CoE.
- Laboratory SEE shall be conducted involving internal and external examiners as defined in these regulations.

17.0 SCHEME FOR THE AWARD OF DEGREE:

❖ Award of M.Tech. Degree and Class:

- A student shall be declared eligible for the award of the M.Tech. degree if he / she fulfils the following academic regulations:
 - ✓ Pursued a **programme of study for not less than two academic years and not more than four academic years.**
 - ✓ Registered for **68 credits** and secured a minimum of **68 credits.**

NOTE: Students, who fail to fulfill all the academic requirements for the award of the degree within four academic years from the year of their admission, shall forfeit their seat in M.Tech. programme.

18.0 PERFORMANCE AND GRADING SYSTEM:

- Performances of students in each of the courses in the programme are expressed in terms of Letter Grades based on absolute grading system. The 10-point grading system as with grade and grade points are shown in the Table 6.

Table 6 Grade and Grade Points

| Marks Obtained | Grade | Description of Grade | Grade Points(GP) Value Per Credit |
|--------------------------|-------|----------------------|-----------------------------------|
| ≥ 90 | O | Outstanding | 10.00 |
| ≥ 80 and < 89.99 | A+ | Excellent | 9.00 |
| ≥ 70 and < 79.99 | A | Very Good | 8.00 |
| ≥ 60 and < 69.99 | B+ | Good | 7.00 |
| ≥ 50 and < 59.99 | B | Pass | 6.00 |
| < 50 | F | Fail | -- |
| Not Appeared the Exam(s) | Ab | Absent | -- |

- A student is eligible for the award of the M.Tech. degree with the class as mentioned in the following Table 7.

Table 7 CGPA and Class

| CGPA | Class |
|------------------------|------------------------------|
| ≥ 8.0 | First Class with Distinction |
| ≥ 7.0 and < 8.0 | First Class |
| ≥ 6.0 and < 7.0 | Second Class |

- For **mandatory and audit courses (non-credit)**, student shall be awarded ‘Satisfactory’ or “Not satisfactory” without any credit. This shall not be counted for the computation of SGPA / CGPA.

19.0 COMPUTATION OF SGPA AND CGPA:

➤ CALCULATION OF SEMESTER GRADE POINTS AVERAGE (SGPA):

- The performance of each student at the end of each semester shall be indicated in terms of SGPA. The SGPA shall be calculated as below:

$$SGPA = \frac{\text{Total earned weighted grade points in a semester}}{\text{Total credits in a semester}}$$

$$SGPA = \frac{\sum_{i=1}^P C_i * G_i}{\sum_{i=1}^P C_i}$$

Where C_i = Number of credits allotted to a particular course 'i'
 G_i = Grade point corresponding to the letter grade awarded to the course 'i'
 $i = 1, 2, \dots, p$ represent the number of courses in a particular semester

Note: SGPA is calculated and awarded to those students who pass all the courses in a semester.

➤ **CALCULATION OF CUMULATIVE GRADE POINT AVERAGE (CGPA):**

The CGPA of a student for the entire programme shall be calculated as given below:

- Assessment of the overall performance of a student shall be obtained by calculating cumulative grade point average (CGPA), which is weighted average of the grade points obtained in all courses during the course of study.

$$CGPA = \frac{\text{Total earned weighted grade points for the entire programme}}{\text{Total credits for the entire programme}}$$

$$CGPA = \frac{\sum_{j=1}^m C_j * G_j}{\sum_{j=1}^m C_j}$$

Where C_j = number of credits allotted to a particular course 'j'
 G_j = grade point corresponding to the letter grade awarded to that course 'j'
 $j = 1, 2, \dots, m$ represent the number of courses of the entire programme

- Grade lower than B in any course shall not be considered for CGPA calculation. The CGPA shall be awarded only when the student acquires the required number of credits prescribed for the programme.

➤ **GRADE CARD:**

The grade card issued shall contain the following:

- The credits for each course offered in that semester
- The letter grade and grade point awarded in each course
- The SGPA / CGPA
- Total number of credits earned by the student up to the end of that semester.

➤ **ILLUSTRATION OF COMPUTATION OF SGPA AND CGPA**

❖ **Illustration of calculation of SGPA:**

| Course Name | Course Credits (C) | Letter Grade | Grade Point (GP) | Credit Point (CP = C x GP) |
|----------------------|--------------------|----------------------------|------------------|----------------------------|
| Course 1 | 3 | A | 8 | 3 x 8 = 24 |
| Course 2 | 3 | B+ | 7 | 3 x 7 = 21 |
| Course 3 | 3 | B | 6 | 3 x 6 = 18 |
| Course 4 | 3 | O | 10 | 3 x 10 = 30 |
| Course 5 | 3 | C | 5 | 3 x 5 = 15 |
| Course 6 | 1.5 | B | 6 | 1.5 x 6 = 9 |
| Course 7 | 1.5 | A | 8 | 1.5 x 8 = 12 |
| Course 8 | 2 | B | 6 | 2 x 6 = 12 |
| TOTAL CREDITS | 20 | TOTAL CREDIT POINTS | | 141 |

$$\text{Thus, SGPA} = \frac{141}{20} = 7.05$$

❖ Illustration of calculation of CGPA upto II semester:

| Semester | Course Name | Course Credits (C) | Letter Grade Secured | Grade Point (GP) | Credit Point (CP = C x GP) |
|----------------------|-------------|--------------------|----------------------------|------------------|----------------------------|
| I | Course 1 | 3 | A | 8 | 3 x 8 = 24 |
| I | Course 2 | 3 | B+ | 7 | 3 x 7 = 21 |
| I | Course 3 | 3 | B | 6 | 3 x 6 = 18 |
| I | Course 4 | 3 | O | 10 | 3 x 10 = 30 |
| I | Course 5 | 3 | C | 5 | 3 x 5 = 15 |
| I | Course 6 | 1.5 | B | 6 | 1.5 x 6 = 9 |
| I | Course 7 | 1.5 | A | 8 | 1.5 x 8 = 12 |
| I | Course 8 | 2 | B | 6 | 2 x 6 = 12 |
| II | Course 9 | 3 | A | 8 | 3 x 8 = 24 |
| II | Course 10 | 3 | A | 8 | 3 x 8 = 24 |
| II | Course 11 | 3 | A+ | 9 | 3 x 9 = 27 |
| II | Course 12 | 3 | B | 6 | 3 x 6 = 18 |
| II | Course 13 | 3 | A | 8 | 3 x 8 = 24 |
| II | Course 14 | 1.5 | A | 8 | 1.5 x 8 = 12 |
| II | Course 15 | 1.5 | A | 8 | 1.5 x 8 = 12 |
| II | Course 16 | 2 | B | 6 | 2 x 6 = 12 |
| TOTAL CREDITS | | 40 | TOTAL CREDIT POINTS | | 294 |

$$\text{Thus, CGPA} = \frac{294}{40} = 7.35$$

- The above illustrated process of calculation of CGPA shall be followed for each subsequent semester until fourth semester i.e., (II year II semester).
- The CGPA obtained at the end of fourth semester i.e., (II year II semester) shall be the final CGPA secured by the student for the entire M.Tech. programme.

20.0 REVALUATION:

- Student can register for the revaluation by paying a prescribed fee.
- The Controller of Examinations (CoE) shall arrange for the revaluation and declare the results.
- Revaluation shall not be permitted to the courses other than theory courses.

21.0 WITH-HOLDING OF RESULTS:

- If a student has not paid pending dues to the Institute / if any case of indiscipline / malpractice is pending against him, the results of such a student shall be withheld.
- The issue of award of the provisional certificate and the M.Tech. degree is liable to be withheld in such cases.

22.0 DISCIPLINE:

- Every student is required to observe discipline and decorum both inside and outside the Institute and not to indulge in any activity which shall tend to bring down the honor of the Institute.
- If a student indulges in malpractice in any of the theory / practical CIE or SEE, he/she shall be liable for punitive action as prescribed by the Institute from time to time.

23.0 TRANSITORY REGULATIONS:

- A student who has discontinued or has been detained for want of attendance or any other academic requirements, may be considered for readmission as and when he becomes eligible.
- He shall take up equivalent courses, as substitute courses in place of repeated courses as decided by the Chairman of the BoS of the respective departments.
- He shall be admitted under the regulation of the batch in which he is readmitted.

24.0 MINIMUM INSTRUCTION DAYS:

- The minimum instruction days for each semester shall be **16 weeks**.

25.0 GENERAL:

- Where the words “he”, “him”, “his”, occur in these regulations, they include “she”, “her”, and “her”.
- The academic regulations should be read as a whole for the purpose of any interpretation.
- In the case of any discrepancy / ambiguity / doubt arising in the above rules and regulations, the decision of the Principal shall be final.
- The Chairman, Academic Council may change or amend any or all of the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students concerned with effect from the dates as notified by the Institute.

MALPRACTICE RULES

DISCIPLINARY ACTION FOR IMPROPER CONDUCT IN EXAMINATIONS

| S.No. | Nature of Malpractices/Improper conduct | Punishment |
|--------|--|--|
| | If the student: | |
| 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 course 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 student which can be used as an aid in the course of the examination) | 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 student orally or by any other body language methods or communicates through cell phones with any student 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 students involved. In case of an outsider, he shall 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 course of the examination (theory or practical) in which the student is appearing. | Expulsion from the examination hall and cancellation of the performance in that course and all other courses the student 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/year. The Hall Ticket of the student is to be cancelled and sent to the Controller of Examinations. |
| 3. | Impersonates any other student in connection with the examination. | The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student, 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/year. The student is also debarred for two consecutive semesters from class work and all semester end examinations. The continuation of the course by the student is course to the |

| | | |
|----|--|--|
| | | academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he shall 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 course and all the other courses the student 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 student is also debarred for two consecutive semesters from class work and all semester end examinations. The continuation of the course by the student is course 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 Controller of Examinations /Additional Controller of Examinations/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 COE 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 COE 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 Institute premises 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 course and all other courses the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the courses of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they shall 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 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 student has already appeared including practical examinations and project work and shall not be permitted for the remaining |

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| | | examinations of the courses of that semester/year. The student is also debarred for two consecutive semesters from class work and all semester end examinations. The continuation of the course by the student is course 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 student 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 student is also debarred and forfeits the seat. |
| 9. | 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. | Such a candidate shall be expelled from the examination hall and performance in that course and all other courses the student has already appeared including practical examinations and project work be cancelled and shall not be permitted for the remaining examinations of the courses of that semester/year. The student is also debarred and forfeits the seat. Person(s) who do not belong to the College shall be handed over to police and, a police case shall 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 student 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. |
| 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 student 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 clauses 1 to 11 shall be reported to the University for further action to award suitable punishment. | |

Malpractices identified by squad or special invigilators:

Punishments shall be given to the students as per the above guidelines.

Malpractice identified at Spot center during valuation:

The following procedure shall be followed in the case of malpractice cases detected during valuation, scrutiny etc. at spot center:

1) Malpractice is detected at the spot valuation.

The case is to be referred to the malpractice committee. Malpractice committee shall meet and discuss/question the student and based on the evidences, the committee shall recommend suitable action on the student.

2) A notice is to be served to the student(s) involved, through the Principal, to his address and to the student(s) permanent address regarding the malpractice and seek explanations.

3) The involvement of staff who are in-charge of conducting examinations, invigilators, examiners valuing examination papers and preparing / keeping records of documents related to the examinations in such acts (inclusive of providing incorrect or misleading information) that infringe upon the course of natural justice to one and all concerned at the examinations shall be viewed seriously and recommend for award of appropriate punishment after thorough enquiry.

4) Based on the explanation by the party involved and recommendations of the committee action may be initiated.

5) Malpractice committee:

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| i. Dean of Academics | Chairman |
| ii. Controller of Examinations | Convener |
| iii. Invigilator | Member |
| iv. Chief Examiner of the course/course expert | Member |
| v. Concerned Head of the Department | Member |