SCHOOL OF ENGINEERING AND TECHNOLOGY

MASTER OF TECHNOLOGY (M.Tech.)
PROGRAMME REGULATIONS – 2023

INDEX

REGULATIONS GOVERNING

MASTER OF TECHNOLOGY [M.Tech.] DEGREE PROGRAMME

Based on Choice Based Credit System (CBCS)

DEFINITION OF KEY WORDS:

1. **Academic Year:** Two consecutive semesters (one odd followed by one even) constitute one academic year.

2. **Audit Courses:** Courses, outside the prescribed range of credits required for the degree, the students can register if interested to supplement their knowledge/ skills.

3. **Accelerated Credit Course (ACC):** Credit Courses taken up prior to the commencement of the Programme by a student.

4. **Branch:** One of the cohorts of areas in an M.Tech. Programme, like Electronics & Communication Engineering, Mechanical Engineering, and Computer Science & Engineering etc.

5. **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed set of courses viz. Core courses, Core Elective courses, Advanced Core courses and Elective courses.

6. **Course:** Referred to as 'papers', is a component of a programme, with defined learning objectives, outcomes and number of credits. A course may be designed to comprise lectures/ assignments/ tutorials/ laboratory work/ field work/ outreach activities/ project work/ self-study/ vocational training/ viva/ seminars/ term papers/ presentations/ quiz etc. or a combination of these as defined in the Scheme of Teaching. The course credits vary depending on the required teaching-learning hours to accomplish the learning outcomes, specified in the course syllabus.

7. **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is generally equivalent to one hour of lecture or two hours of tutorial/ practical work/ field work per week. It may also be pre-defined otherwise in any coursework.

8. **Credit Based Semester System (CBSS):** Under CBSS, the requirement for awarding a degree or diploma or certificate is prescribed in terms of number of credits to be earned by the students.

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

10. **Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned 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. However, the CGPA may be calculated from second semester onwards to facilitate students to know their academic progress.

11. **Dean/Director:** Dean/Director of the School of Engineering and Technology of the University.

12. **First Attempt:** If a student has completed all formalities and become eligible to attend examinations and has attended at least one head of passing, such attempt (first sitting) shall be considered as first attempt.

13. **Grade Point:** It is a numerical weightage allotted to each letter grade on a 10-point scale.

14. **Letter Grade:** An index of the performance of students in a said course. Grades are denoted by letters.

15. **Passing Standards:** A student is passing a Course only when getting GP greater than or equal to 05 (P Grade). A student is declared successful at the Semester-end or Programme-end only when getting SGPA or CGPA equal to or greater than 5.00 respectively, with none of the Courses registered in a Semester(s) having either F-RA or F-RR Grade.

16. **Programme:** A planned series of events/activities comprising of a combination of courses leading to the award of the post graduate degree of Master of Technology.

17. **Programme Council:** The committee consisting of the Director of the programme and the concerned Faculty members.

18. **Semester:** Each semester will consist of 15 to 18 weeks of academic work equivalent to about 90 teaching days. The odd semester may be scheduled from August to December and even semester from January to May, or as may be declared by the University.

19. **Semester Grade Point Average (SGPA):** It is a measure of academic performance of student in a semester. It is the 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.

20. **SOET:** School of Engineering and Technology of the University.

21. **Specialization:** A field of study that provides specific domain knowledge in a particular Branch of the M.Tech. Programme. For example Artificial Intelligence (in Computer Science and Engineering), Data Science (in Computer Science and Engineering), etc.

22. **Transcript, Grade Certificate and Grade Card:** Grade card shall be issued to candidates indicating the programme details (Course code, title, number of credits, grade secured and grade points) for all the registered courses after every semester. On successful completion of all courses/earning credits, specified in a semester, the grade certificate is issued indicating the programme details along with SGPA of that semester and CGPA earned till that semester. Transcripts to the successful candidates shall be issued after successful completion of the programme. with required credits earned.

23. **University:** CMR University, Bangalore.

REGULATIONS

23PGMT 1.0	**TITLE AND DURATION OF THE PROGRAMME**
23PGMT 1.1	The Programme shall be called Master of Technology (Subject of Specialization) abbreviated as M.Tech. (Subject of Specialization) Programme. The M.Tech. Programmes covered under these regulations are: 1) Master of Technology (Computer Science & Engineering) 2) Master of Technology (Artificial Intelligence)
23PGMT 1.2	The M.Tech. Programme shall be of three academic years duration and organized in six semesters, with each semester having duration of about 16 to 18 weeks (excluding examination and vacation).
23PGMT 1.3	The annual Academic Calendar of events in respect of the Programme of study approved by the Academic Council, shall be notified at least a month before the commencement of each academic year. It is mandatory for students, faculty members and all concerned to strictly adhere to the Academic Calendar for completion of academic activities. Academic Calendar shall be displayed on the homepage of the University website.
23PGMT 2.0	**ELIGIBILITY FOR ADMISSION**
23PGMT 2.1	The rules specified in the following clauses shall be followed, but the orders issued from the Government/the regulatory bodies from time to time shall prevail.
23PGMT 2.2	1) Candidates admitting to I year/I semester Master of Technology (Computer Science & Engineering) Programme shall have a minimum of 50% marks in B.E./B.Tech in CSE/ISE/IT/ECE/EEE or M.Sc. in CS/IS/IT/Mathematics or MCA. 2) Candidates admitting to I year/I semester Master of Technology (Artificial Intelligence) Programme shall have a minimum of 50% marks in B.E./ B.Tech in CSE/ISE/IT/ECE/EEE/Mechanical or M.Sc. in CS/IS/IT /Mathematics or MCA. 3) However, in the case of candidates belonging to SC/ST, PH and Category I, the aggregate percentage of marks in the qualifying examinations shall not be less than 45%. Rounding off of percentage secured in qualifying examination is not permissible.

23PGMT 3.0	**CHOICE BASED CREDIT SYSTEM AND ACADEMIC PROCESS**
23PGMT 3.1	**Semester – Odd and Even:** The University follows the Choice Based Credit System and the Semester Scheme. There are two regular semesters and one additional semester in an academic year. The semester that begins in August (August to December) is known as the Odd Semester and the semester that begins in January (January to May) is known as the Even Semester. During the summer vacation (June to July), the Summer Semester is conducted to offer courses as per 23PGMT 3.2.
23PGMT 3.2	**Summer Term:** The summer semester is additional semester that is conducted during an academic year. However, during a summer semester, a limited number of courses may be offered to enable the students to clear their backlog courses (Fail - Re Registration(F-RR) and/or register for additional regular credit courses on audit basis, subject to strict adherence to the following guidelines: 1) The Programme Council shall identify the courses to be offered along with the Course Instructor and recommend offering of such summer course (s) to the Dean/Director for consideration. The identified faculty members shall offer the courses only on approval by the Dean/Director. 2) The course is offered in the same manner as a regular semester course without compromising the course requirements in terms of knowledge delivery, course work, assessment and evaluation. The University shall notify the fee payable by the students for the summer semester courses. 3) The duration of the course is six to eight weeks. The registration, examination, assessment and grading etc. are done in the same way as is done for regular semester courses. The total number of contact hours for the courses remains the same as that during the regular semesters, and therefore, the courses are run at an accelerated pace. The Academic Calendar in this connection shall be strictly followed. 4) The dropping of a Summer Course is permitted within 7 days from the first lecture of the course. However, the registration fee paid for the course is not refundable. 5) Time slots will be assigned and notified by the Dean/Director/Registrar (Evaluation) as done for the regular semester courses. 6) A notified summer course can be withdrawn if the number of students registered for the course is less than five.

	7) A student can register up to a maximum of 12 credits or 3 courses in any summer semester, depending on his academic standing.
	8) Courses offered in a summer semester will be treated as equivalent to a regular semester courses for all accounting purposes.
23PGMT 3.3	**Curriculum:** 1) Every Programme has a prescribed course structure which, in general terms, is known as the Curriculum or the Courses of Study or the Scheme of Teaching and Evaluation. It prescribes all the courses/ laboratory/ other requirements for the degree and sets out the nominal sequence semester wise. It also provides the syllabus and a list of text/ reference books (or other learning material sources) for each course. 2) The University shall not only lay down the syllabus for each course, but also the manner of its implementation, namely, through lectures, tutorials, laboratory sessions, seminars, field work, projects and such other activities. 3) The Courses of Study details are updated every semester and made available at the School's page of the University website: http:// www. cmr. edu. in/. 4) Curriculum may also include SWAYAM or Massive Open Online Courses (MOOCs), offered by premier Institutions worldwide. However, selection of SWAYAM or MOOCs, if any, shall always be within prescribed guidelines of the relevant regulatory bodies. 5) Specializations offered, wherever applicable, under different M.Tech. Programs shall be as prescribed in the Scheme of Teaching and Evaluation.
23PGMT 3.4	**Course Credit Structure:** 1) A certain quantum of academic work, measured in terms of credits, is laid down as the requirement for completion of degree in the different programme and the available specialization areas. A student earns credits by satisfactorily completing courses/ other academic activities every semester. 2) The credits are distributed semester wise, as prescribed in the Scheme of Teaching and Evaluation for each of the programmes. The courses generally progress in sequences, building competencies as per the course learning outcomes. The positioning of a course indicates certain academic maturity on the part of the students. 3) Some courses do, in addition, specify passing in other courses, offered earlier in the programmes as prerequisites for the course. 4) Students are required to follow the semester wise schedule of courses specified in Scheme of Teaching and Evaluation; they do, however, have freedom to follow alternative schedules to optimize their academic profile with

	additional courses, keeping the requirements for each course in mind. For students with backlog courses, such rescheduling may even become necessary. Such departures from suggested schedules need to be done very carefully, and always with advice from the Faculty Adviser and upon approval from competent authority.
23PGMT 3.5	**Courses:** There will be following types of courses in a programme, namely in line with AICTE / UGC guidelines. 1) One Course on Mathematics supportive to the concerned programme in the first semester. 2) Core Courses (CC): including essential foundation and functional management skill courses, considered to be useful for all Master's graduates irrespective of their choice of elective group/ specialization. 3) Core Elective (CE): including additional knowledge and skill courses, considered to be useful for developing additional skills/ competencies, irrespective of elective group/ specialization. 4) Advanced Core (AC): including knowledge and skill courses, considered to be useful for developing management skills/ competencies with inter- functional perspectives in management. 5) Elective Courses (EC): including knowledge and skill courses focusing on function/ sector specific management skills/ competencies leading to focused study in an elective group/ specialization area. 6) Project work/ Internship/ Seminars/ Dissertations can also be offered as independent course in the programme subject to allocation of required credit hour allocation to the course. The requirements for Seminar/ Project/Internship/ Dissertation based courses will, be as specified in the course-guidelines/details approved by the Board of the Studies of the School. 7) MOOC Courses: These courses are online credit courses that a student may choose and pursue in different semester of the programme. The number of courses that a student may choose, credit allocation, the duration, the category of the course (Open /Disciplinary / Allied Disciplinary / Inter Disciplinary) and the mode of assessment of the course is as specified by the Scheme of Teaching and Evaluation of the Programe. The course/s chosen by the student shall be approved by the Dean/Director before formally registering in the respective portal prior to the commencement of the respective semester.

23PGMT 3.6	**Seminars:**
	Some Programmes may prescribe Seminar as a requirement for the degree. Seminar may be an assessment component or a course itself wherein the student is expected to do an in-depth study in a specialized area under the guidance of a faculty member. This may include surveying published technical literature, understanding different aspects of the problem and arriving at a status report. While doing a seminar, the student is expected to: critically analyze works of various authors/ researchers; learn the investigation methodologies, study concepts, techniques and the results presented in these papers; and submit a seminar report. It is mandatory to give a seminar presentation before a panel constituted for the purpose.
23PGMT 3.7	**Project Work/Dissertation and Summer Internship Program (SIP):**
	Project work/Dissertation and/or SIP is considered as a special course involving application of knowledge in solving / analyzing /exploring a real-life situation/ difficult problem. A Project/ Dissertation work would be for specified number of credits, as prescribed in the Scheme of Teaching and Evaluation. A Project/Dissertation work may be given in lieu of a discipline specific elective paper.
	Internship: The student shall undergo Internship for a period of 16 weeks as per the Scheme of Teaching and Examination.
	1) The internship could be undertaken in any industry/R&D Organization/ Research Institute/ Institute of repute, where the facility and the external Guide is available.
	2) (a) The Department shall nominate a faculty to facilitate, guide and supervise students under going internship.
	(b) The Internal Guide has to visit work place at least once during the student's internship.
	(c) The internees shall report their progress to the respective guides regularly.
	3) The Internship shall be completed during the period specified in Scheme of Teaching and Examination.
	4) At the end of Internship, the student shall submit a report to the Dean/Director of the concerned School of Studies with the approval of both internal and external guides.
	5) Internal assessment carry 50 marks for IA (Seminar: 25, Internship report: 25) and 50 marks for Viva – Voce conducted during SEE.
	6) The internal guide shall award the marks for seminar and internship report after evaluation. He/she will also be the internal examiner for Viva – Voce conducted during SEE.

	7) The external guide from the industry has to be an examiner for the viva voce on Internship. Viva-Voce on internship shall be conducted at the college and the date of Viva-Voce shall be fixed in consultation with the external Guide. The Examiners shall jointly award the Viva - Voce marks. 8) In case the external Guide expresses his inability to conduct viva voce, the concerned Dean/Director is permitted to make alternate arrangements with the permission of the Registrar (Evaluation). 9) The students are permitted to carry out the internship anywhere in India or Abroad. The University will not provide any kind of Financial Assistance to any student for internship. 10) Project work/Dissertation report shall be accepted only on successful completion of the Internship.
23PGMT 3.8	**1) Audit Courses:** A student desirous of additional exposure to a course, without the rigors of obtaining a good grade, 'audits' a course. The minimum requirement of attendance for an 'Audit Course' is 75%, with any additional requirements as set by the instructor such as submission of assignments and minimum performance in some of the in-semester evaluations. Auditing of courses during regular semesters from 3rd semester onwards is permitted under the following conditions: a) Students with CGPA> 6.0 will be permitted to 'Audit' a course. A course can be audited provided the course is offered in the semester as a credit course for others, and there is no slot clash. Prior permission of the Instructor is required. b) Audit courses would be restricted to a maximum of two (2) courses per student in the entire period of the programme. c) The instructor would award the 'AU' grade, if the attendance is satisfactory and additional requirements, as set out by the instructor, are met. If the attendance and performance is not satisfactory, the instructor will award 'No Grade'. The grade 'AU' does not carry any grade points and therefore does not figure in SGPA/ CGPA calculations. However, students who have earned grade in Audit courses attending all the components of examination and evaluation can also be considered for credit in case of requirement. d) The course successfully completed in Audit mode will be reflected in the Semester Grade Card, Grade Certificate and the Transcript as Audit Course.

	2) Accelerated Credit Course (ACC): Accelerated Credit Courses may be taken up prior to the commencement of the Programme by a student. A student can take at most 2 Accelerated Credit Courses and can acquire 1 credit from each. These Accelerated Credit Courses are included under the Programme and shall be treated in first and second Semester (1 in each Semester as acquired by the student) of the programme. These courses are given credits upon requirement for acquiring a degree as specified in 23PGMT9.1 or shall be considered as additional credits above the prescribed minimum credit requirements of the programme. These courses are reflected in the Grade Certificate/Transcript with credits.
23PGMT 3.9	**Registration:** It is mandatory for every student to register for a semester to attend various courses and earn credits, using the prescribed Course Registration Form (CRF), till he completes his programme. The registration shall be completed on or before the prescribed last date for registration announced in the academic calendar. 1) On joining the Programme, each student is assigned to a Faculty Adviser or an Advisory group. A student shall register for required courses each semester with prior permission of the Faculty Adviser. 2) The student can register for courses he intends to take during a given semester (including courses in summer semester) on the basis of his plan for each Programme, as given in the Scheme of Teaching and Evaluation and as per the advice given by his Faculty Adviser. 3) The Faculty Adviser is expected to discuss with the student his academic performance during the previous semesters and then decide the number and nature of the courses for which the student can register during the semester within the framework of the Regulations. 4) The Faculty Adviser may advise the student to drop one or more courses/activities based on his academic performance. The Faculty Adviser may even advise a reduced load program over several semesters for students with poor performance at the end of the first semester/year. 5) Students are not permitted to reregister for course/(s), which they have already passed. 6) Students having outstanding dues to the University or a hostel shall not be permitted to register. 7) The registration is deemed to be complete only on approval by the Dean/Director. 8) Without registration, any academic activity (course/seminar etc.) undergone by a student will not be counted towards the requirements of his degree.

23PGMT 3.10	1) **Procedure for Registration:**
	The procedure involves the following steps:
	a) A student is required to register for all the courses listed in the curriculum for the first semester.
	b) The students shall decide on the courses to be registered during the ensuing semester immediately after their SEE examinations as per the advise of their Faculty Advisor.
	c) They shall submit a print out of the completed CRF, duly attested by the faculty advisor to the Dean/Director within the date notified by the University for registration.
	d) Every student from II semester onwards is required to register for a minimum of 16 credits and a maximum of 28 credits excluding Project/ Dissertation/ Seminar or as per the requirement of any specific semester.
	2) **Registration for second and subsequent semesters:**
	a) From second semester onwards, registration is dependent on the academic standing of the student. A student with a low academic standing registers for the academic load specified by the Faculty Adviser. In addition he may add one more course (3-7 credits) towards additional learning or to clear backlog courses, without this being considered an overload.
	b) Students with average academic standing are advised not to attempt full load. Faculty Advisers after careful scrutiny will advise reduced loads depending on previous performance.
	3) **Late Registration:**
	Registration beyond the last date may be permitted only in special cases till the date specified in the Academic Calendar, on payment of a late registration fee.
23PGMT 3.11	**Course Adjustment/Dropping of Courses:**
	1) The Academic Calendar sets a date, normally two weeks after the commencement of the semester, for Course Adjustment. On or before this date, a student is permitted to make adjustments in his academic load by addition or deletion of one or more courses, projects etc., provided that the total credits do not exceed or fall below the criteria mentioned in 23PGMT 3.10, Course adjustment has to be done in consultation with the Faculty Adviser. When the need for course adjustment through addition, substitution or

	dropping of course/s arises, the student without any backlog shall do online course adjustment and students with backlog course/s shall do it manually by filling a Course Adjustment Form (CAF). CAF has to be signed by both the student and the Faculty Adviser and the same is to be submitted to the Dean/Director. 2) If in the second or any of the subsequent semesters, a student finds his academic load too heavy, he may drop one or two courses out of the registered ones on advice from the Faculty Adviser, provided the minimum credit requirements is fulfilled. The last date for doing this is within 10 days after the end of the first test, or as specified in the Academic Calendar. 3) Course/s dropped by a student may be taken during a subsequent semester including the summer semester, if offered. 4) The minimum number of students to be registered for an Elective to be offered shall be not less than ten, or as decided by the University.
23PGMT 3.12	**Course substitution:** In case a student obtains E grades or drops courses due to a valid reason or fails in a course, he may like to substitute courses in order to complete the course requirements within the stipulated duration. Following are the guidelines for course substitution: 1) Course substitution is not permitted for Core Courses. The student has to reregister for the same courses and complete them. 2) An elective course may be substituted by another elective course from the same group.
23PGMT 3.13	**Dropping of a Semester:** 1) A student may opt or be advised to drop an entire semester, with prior approval of Programme Council due to the following reasons: a) A student may seek a semester drop, due to severe personal health problem, unavoidable family commitments or other valid reasons beyond his control, on advice from the Faculty Adviser, prior to the commencement of the semester itself. b) During a registered semester, if a student finds that he is unable to cope up with the studies and/or does not have sufficient exposure to most of the courses registered in that semester due to severe health problem or some other valid reasons beyond his control, he can opt to drop the entire semester, on advice from the Faculty Adviser.

	2) In all cases of severe health problems, medical certificate issued by a University recognized Medical Practitioner is essential. In all other cases, requests for dropping the semester shall be accompanied by supporting documents as required. 3) Such break from studies is normally not permitted for a continuous period in excess of one year. 4) Not registering for any semester before the last date for registration without prior approval of the Dean/Director will result in automatic dropping of semester leading to temporary discontinuation of the programme.
23PGMT 3.14	**1) Faculty Adviser:** On joining the University, a student or a group of students' is/are assigned to a Faculty Adviser from the concerned programme. Students are advised to consult the Faculty Adviser on any matter relating to their academic performance and the courses they may take in various semesters/ summer semesters. Faculty Adviser guides the students to complete their courses of study for the required degree in a smooth and satisfactory manner. **2) Role of the Faculty Adviser:** When the first year students join the University, a group of students are assigned to a Faculty Adviser. The students are expected to consult the Faculty Adviser on any matter relating to their academic performance and the courses they may take in various semesters, except first two semesters. The Faculty Adviser guides the students to complete their courses of study for the required degree in a smooth and satisfactory manner. For effective utilization of the opportunities for additional academic accomplishments, planning of the individual's academic progress needs careful consideration, and constant consultation with the Faculty Advisers is imperative. Thus, the role of the Faculty Adviser is of immense importance. The Faculty Adviser is the person whom the parents/ guardians shall contact for performance related issues of their ward. **3) Specific role of the Faculty Adviser:** a) Guide the students about the rules and regulations governing the courses of study for a particular degree. b) Advise the students for registering courses as per prescribed curriculum or otherwise but within the scope of the rules and regulations prescribed by the University from time to time. For this purpose the Faculty Adviser has to discuss with the student his academic performance during the previous semester and then decide the number and nature of the courses for which he can register during the semester.

	c) Approve the CRF by attesting same, before the prescribed last date.
	d) Advice students to overload/ drop one or more courses/ activities based on his academic performance.
	e) At the end of the first semester/year, the Faculty Adviser may even advise a reduced load programme for a poorly performing student. This reduced load programme may spread over several semesters subject to minimum load for the semester and completion of the degree programme within the prescribed maximum period. Such reduced load programme is to be prepared by the Faculty Adviser in consultation with the Student & his parent and recommend the same through the Programme Council to the Dean/Director for consideration and approval before the start of the semester.
	f) Pay special attention to weak students and carefully monitor performance of students recommended for slow track option.
	g) Advice students for Course Adjustment/ Dropping of courses during the Semester within the stipulated time frame given in the Academic calendar.
	h) Advice students seeking semester drop either during the ongoing semester or before the commencement of the semester. FA has to ensure strict compliance of rules and regulations laid down for this purpose. Recommend the cases to the Dean/Director for consideration.
	i) Make revised plan of study for weak/ bright students based on their semester wise performance.
	j) Suggest modalities for course/ credit requirements for the students recommended for exchange programme.
	k) Provide Guidance and liaison to the parents of students for their performance.
	l) Ensure that students are not permitted to re-register for courses, which they have already passed.
	m) Inform students that any academic activity (course/ Laboratory/ seminar/ project/ non-credit requirement etc.) undergone without proper registration will not be counted towards the requirements of his degree.
	n) Strictly warn students that if he fails to register during any semester without prior approval, his studentship is liable to be cancelled.
	o) Keep the students updated about the Academic Administration of CBCS system at the University.

23PGMT 4.0	**ATTENDANCE REQUIREMENT**
23PGMT 4.1	Attendance in the class is compulsory and is monitored. The University expects 100% attendance. Each Course is considered as a unit for attendance requirement and, 1) The minimum number of lectures, tutorials, seminars and practical which a student shall be required to attend for eligibility to appear at the SEE shall not be less than 75% of the total number of lectures, tutorials, seminars, practical, and any other prescribed requirements. 2) If a student obtains less than 75% attendance in any one or more of the courses, he shall not be permitted to appear for the SEE of those courses and he shall re-register for them in subsequent academic semester/s and obtain passing grades, subject to 23PGMT 4.1 (1).
23PGMT 4.2	The basis for the calculation of attendance shall be the period prescribed by the University in its Academic Calendar of events. For the first semester students, the same is reckoned from the date of admission to the programme as per allotment from University.
23PGMT 4.3	The Dean/Director shall inform the students about their attendance position periodically so that the students shall be cautioned to make up the shortage. The Dean/Director shall submit the list of students who have been detained for shortage of attendance by the end of the semester to the Registrar (Evaluation) with a copy to the Registrar. It may be noted that mere omission by Dean/Director to inform the student about the shortage of attendance shall not entitle him to appear for examination.
23PGMT4.4	**Temporary Discontinuation of programme:** A student, who wishes to temporarily discontinue the programme and continue subsequently, has to obtain prior permission from the University by applying through the Dean/Director. Such student shall take admission once again to the same semester in the following academic year or later. However, such student shall pay the tuition fee and other fees for the entire academic year; and shall complete the programme as per 23PGMT 10.1.
23PGMT 5.0	**EXAMINATIONS AND EVALUATION**
23PGMT 5.1	1) The evaluation system of the programmes shall include both Continuous Internal Evaluation (CIE) and Semester End Examination (SEE). The CIE shall be conducted during the semester and SEE for all courses offered during the semester.

	2) CIE and SEE constitute the major evaluations prescribed for each course, with only those students maintaining a minimum standard in CIE are permitted to appear in SEE of the course. 3) CIE and SEE to carry 50% weightage each, to enable the course to be evaluated for a total of 100 marks, irrespective of its credits. 4) The evaluation system of the programme is comprehensive & continuous during the entire period of Semester, both by internal faculty (who is / are teaching the course) & also by the external examiners (who have requisite expertise in the domain / course area).
	5) For a course, the evaluation and grading will be on the following parameters:

A	Continuous Internal Evaluation (CIE)	30 % marks
A1	Continuous and Comprehensive Evaluation (CCE)	20 % marks
A2	Internal Assessment Tests (IAT)	50 % marks
	Total of CIE (A1+A2)	50 % marks
B	Semester End Examination (SEE)	100 % marks
	Total of CIE and SEE (A + B)	

23PGMT 5.2 | **Continuous Internal Evaluation:**

1) The CIE will carry a maximum of 50% weightage of total marks of a course. Before the start of the Academic session of each semester, in addition to Internal assessment test, a faculty may choose for his course: a minimum of three and a maximum of four of the following assessment methods with suitable weightage for each.

   a) Assignments (Individual and/or Group)

   b) Seminars

   c) Quizzes

   d) Group Discussions

   e) Case studies/Case lets/Case discussions

   f) Practical orientation on Design Thinking, Creativity & Innovation

   g) Participatory & Industry-integrated learning

   h) Practical activities / problem solving exercises

   i) Class presentations

   j) Analysis of Industry/Technical/Business Reports

   k) Reports on Guest Lectures / Webinars / Industrial Visits

   l) Industrial / Social / Rural projects/Field work

   m) Participation in Seminars/ Academic Events/Symposia, etc.

   n) Any other academic activity suitable for the course as approved by authority

2) The faculty will submit the 'CCE Assessment Plan' to the Dean/Director for approval and notify the same along with the course syllabus before the start of semester. The total marks of the above three or more assessment components shall be scaled down to 30% of total marks of the respective course.

3) To assess the students in a course under IAT component, two tests will be conducted in a semester. Each test will be conducted for 20 marks. The average marks obtained in these two tests will be taken as IAT Marks. If a student fails to attend both the IAT on the scheduled date due to any unavoidable circumstances, and produces documentary evidence, the faculty member, upon approval of the Dean/Director, shall conduct one additional test at the end of the semester covering the syllabus of the second IAT.

4) The CIE marks awarded to students at different stages during the course shall be displayed on the notice board of the concerned School to enable the students to point out any discrepancies. After due corrections, if any, faculty shall upload the CIE marks in the University's ERP system and a hard copy of the same shall be submitted to the Registrar (Evaluation) of the University duly signed by the concerned faculty and the Dean/Director, before the commencement of semester end examinations.

5) The student shall obtain a minimum of 50% of marks allotted for CIE in a given course to be eligible to appear for the SEE in that course.

6) If a student is unable to secure a minimum of 50% in CIE marks in any course, he shall not be eligible to take up SEE/ viva-voce examination in that particular course. It shall be the responsibility of Dean/Director to scrutinize the list of candidates and permit only the eligible students to take up SEE. In the event of an ineligible student inadvertently being allowed to appear for the theory/viva voce examination, the result of the concerned student shall be withdrawn forthwith.

7) The list of such students, who have not secured the minimum in CIE marks, shall be sent to the Registrar (Evaluation) along with the submission of CIE marks of the successful students.

8) After the submission of CIE marks to the Registrar (Evaluation) of the University, any request for changes in the marks by the Dean/Director shall be considered only after due approval of the Vice- Chancellor obtained through the Registrar (Evaluation).

9) The students not obtaining 50% marks in CIE shall re-register for the course during the subsequent semester.

23PGMT 5.3	**Semester End Examination:**
	1) The Semester End Examination for all the courses offered during the semester shall be conducted at the end of each semester except when there are no students taking examination for any course as per the scheme of teaching and examinations.
	2) Only those students who satisfy the attendance requirement as per 23PGMT 4.1 and CIE requirement as per 23PGMT 5.2 (5) shall be eligible to appear for SEE of that course.
23PGMT 5.4	**Viva-Voce Examination:**
	For a viva-voce examination, there shall be two examiners, one internal and one external. Internal examiner shall be the course teacher/project guide, and external examiner may be a teacher/ professional who have not taught that course during the given semester at the concerned School and also not in full- time employment with the University. The Vice Chancellor, on recommendation of the Board of Studies, shall appoint all appropriate qualified examiners for any examination. In all the cases, the evaluation shall be made jointly and one consolidated marks be awarded. In the event that the external examiner does not turn up for the examination, the Dean/Director on approval of the Vice Chancellor, may appoint a suitable internal faculty to carry out the examination.
23PGMT 5.5	**Project Work:**
	1) Students shall undertake project as prescribed in the Scheme of Teaching and Evaluation, individually and the project shall be carried out under the supervision of an allotted faculty. Co-Guides are permitted, if justified, for a student carrying out the project in an Industry/ Research Organization.
	2) All individual students shall make presentations to Project Committee notified by the Director and submit the progress reports periodically with the approval of project guide.
	3) The final project dissertation shall be written adhering to International standards. The dissertation, duly signed by the concerned guide, shall be submitted to the Dean/Director with in the time notified. The students shall appear for the viva-voce examination on the project at the end of the semester.
	4) The CIE marks in the case of Project, if applicable, shall be based on the evaluation of the project dissertation as prescribed from time to time in the Scheme of Teaching and Examination.

	5) Capstone Project might also be developed by students while working for their internship or mini project during earlier semesters also. Dean/Director upon recommendation would fix up framework for such carry forwarding study of mini project to capstone project.
23PGMT 5.6	**Academic Malpractice:** Academic malpractices shall be seriously viewed and appropriate action taken. In case of malpractice during any of the examinations like assignments, quizzes, tests, and other CIE components, the matter shall be reported to the Dean/Director for further action. In case of malpractice during SEE, the Invigilator shall report the matter to the Chief Superintend, who in turn refers the matter to the Registrar (Evaluation) for further action.
23PGMT 6.0	**ELIGIBILITY FOR PASSING A COURSE**
23PGMT 6.1	**Award of Grades:**

1) The University adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) on successful completion of all courses of that semester.
2) The total marks obtained by the student in CIE and SEE of a course is expressed as a percentage to compute the grade points and the letter grade is awarded as indicated in the table below:
3) If there is no SEE for a course, then the CIE marks alone will be the basis for the determination of letter grade.
4) Letter Grade Scheme for M.Tech. programmes:

Classification			
% Marks scored in a course	Grade Points	Letter Grade	Level
≥ 90	10	O	Outstanding
≥ 85 < 90	9	A+	Excellent
≥ 75 < 85	8	A	Very Good
≥ 65 < 75	7	B	Good
≥ 55 <65	6	C	Above Average
≥ 50 <55	5	P	Average
<50	0	F - RA	Reappear
	0	F - RR	Re-register

Table: Marks (%) and Letter Grade relation

23PGMT 6.2	**Other Letter Grades:** The letter grades specified in 23PGMT 6.1 are used as student performance measures in all kinds of assessments. However, the following letter grades are also awarded under the circumstances defined below (Letter Grade: Grade Point - Circumstances). 1) F-RR: 0 - Not eligible to appear for the SEE of a course due to attendance being less than 75% and / or CIE being below 50%. To re-register for the course and appear for the SEE in the subsequent semester when it is being offered by the School of Studies. (In case of electives, course change within the group is permitted) 2) AU: 0 - Satisfactory in an Audit course 3) W: No credits – Dropped/ withdrawn (W is not a grade but only a place holder indicating that the course has been dropped/withdrawn and it has to be cleared in subsequent semesters in case it is a core subject).
23PGMT 6.3	**Passing a Course:** For pass in a course, the student shall secure a minimum of 50% of marks prescribed for that course in CIE and 50 % in SEE or viva voce examinations. However, aggregate marks combining both CIE and SEE or viva voce shall not be less than 50% under any circumstances. That is, Minimum passing grade in a course (head of passing) is P.
23PGMT 6.4	**Condition for Re-Registering a Course:** 1) Students who do not satisfy the condition of 17PGMT 6.3 shall be deemed to have failed and will be awarded either 'F-RR' or 'F-RA' Grade. 2) Students who were not eligible to take up the Semester End Examination (SEE) of any semester shall be deemed to have failed and will be awarded 'F-RR' Grade and are required to re-register for the course in subsequent odd/even semesters respectively. 3) Students who were eligible to take up Semester End Examination but have not cleared the regular Semester End Examination (SEE) shall be deemed to have failed and will be awarded 'F-RA' Grade and are required only to re-register for the Semester End Examination during the subsequent odd/even semester respectively.

23PGMT 7.0	**PROGRESSION TO HIGHER SEMESTERS**
23PGMT 7.1	1) A theory, stand-alone practical/project or Theory with practical/project shall be treated as a head of passing. 2) There shall be no restriction for promotion to 2nd semester from 1st semester, if the student has fulfilled the attendance requirement. 3) A student shall be permitted to register for the project only on completion of all the first year courses.
23PGMT 8.0	**PASSING STANDARDS AND CLASS DECLARATION**
23PGMT 8.1	**Computation of SGPA and CGPA:** 1) Semester Grade Point Average (SGPA) will be awarded at the end of each Semester and Cumulative Grade Point Average (CGPA) will be awarded at the end of the programme. However, CGPA is calculated at the end of each semester from the second semester onwards and reflected in the grade certificate for indicating the progress of the student.

	2) Each course in a programme is associated with number of credits (C). Based on the number of Credits for a course and obtained Grade Point (GP) for that course in a Semester, the GPA is calculated as given below:
	  a) The SGPA is the ratio of sum of the product of the number of credits with the grade points secured by a student in all the courses taken by him and the sum of the number of credits of all the courses undergone by a student i.e., SGPA = $\sum (C_i \times G_i) / \sum C_i$
	  Where C_i is the number of credits of the ith course and G_i is the grade point scored by the student in the ith course.
	  b) The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e., CGPA = $\sum (C_n \times S_n) / \sum C_n$
	  Where S_n is the SGPA of the nth semester and C_n is the total number of credits in that semester.
	  Finally the SGPA and CGPA shall be rounded off to 2 decimal places**.**

23PGMT 8.2	**Passing Standards:** 1) A student shall be declared successful or 'pass' in a semester, only when he gets a SGPA of 5.00 earning credits as per the scheme of teaching and evaluation, with grade point of 5 or better in every registered course.

	2) A student shall be declared successful or 'passed' in the entire Post Graduate programme, only when he gets a minimum CGPA of 5.00 and has completed all the graduate requirement courses as mandated in the scheme of teaching and evaluation.
23PGMT 8.3	**1) Conversion of Grade and Percentage of Marks:** Conversion formula for the conversion of CGPA into Percentage is: Percentage of marks scored, P = [CGPA earned] x 10 **2) Class Declaration:** After the conversion of final CGPA into Percentage of Marks (PM), a graduating student is declared to have passed in a) First Class with Distinction (FCD): PM ≥ 75% **(In First Attempt)** b) First Class (FC): 60% ≤ PM < 75% c) Second Class (SC): 50% ≤ PM < 60%
23PGMT 8.4	**Grade Cards, Certificates and Transcripts:** 1) **Grade Cards:** At the end of each semester, a Grade Card shall be issued to all the registered students of that semester, indicating the Course code, Title, Number of credits, Letter grade awarded and Credits earned, for all the Courses as specified in the scheme of teaching and evaluation. This may have Fail - Re appear (F-RA) or Fail - Re Registration (F-RR) grades awarded to the student. 2) **Grade Certificate:** On successful completion of all courses/earning credits, specified in a semester, the grade certificate is issued indicating the course details along with SGPA of that semester and also CGPA earned till that semester. 3) **Transcripts:** Transcript is the consolidated statement of the academic performance of a student for all the semesters since joining the programme and is generally given to a student on completion of the programme. a) For those students who have taken multiple attempts to clear a course, the transcript given on successful completion of the programme will only contain earned pass grade (O to P and AU); the courses cleared subsequently will however be shown in the respective semester with Month and Year in which the student has finally cleared the course. The transcript will show only the overall CGPA based on all the courses taken by the student. Credits earned beyond the requirement for the award of the degree shall be shown as additional courses separately, indicating the grade earned by the student. Additional copies of the transcript can be obtained if needed, on request submitted along with payment of applicable fee.

	b) Students who have earned prescribed number of credits at the end of each semester/year of the programme and wants to discontinue the programme may obtain an interim Transcript at the end of that semester / year, on request and upon payment of the applicable fee. The interim Transcript will also include the failed courses, which have not been cleared at the time of issue.
23PGMT 9.0	**ELIGIBILITY FOR THE AWARD OF DEGREE, PRIZES, MEDALS AND RANKS**
23PGMT 9.1	**Minimum Credit Requirement:** 1) A student shall obtain a total of at least 75 credits as specified by the University along with satisfying the passing standards as per 23PGMT 8.2 to be eligible for the award of the Master of Technology (Artificial Intelligence) and Master of Technology (Data Science) Degrees. 2) If a student falls short of the minimum credit requirement of the programme by maximum 2 credits, then a maximum of 2 credits acquired through Accelerated Credit Courses shall be considered in lieu of the deficit credits for award of the Degree. 3) Formalised credits of an Audit course may be considered for credit in case of requirement.
23PGMT 9.2	For the award of Prizes and Medals, the conditions stipulated by the Donor may be considered subject to the provisions of the statutes of the University for such awards from time to time.
23PGMT 9.3	For award of ranks in the programme, a minimum of 10 students shall have appeared in the final semester examination. The total number of ranks awarded shall be 10% of total number of students appeared in final semester
23PGMT 9.4	A Student shall be eligible for a rank at the time of award of the degree, provided the student has passed in all the courses from 1st to 6th semester of M.Tech in first attempt.
23PGMT 9.5	For award of Rank, the CGPA secured by the student from 1st to final semester shall be considered.
23PGMT 9.6	If two students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained higher SGPA. But, if it is not resolved even at this stage, the number of times a student has obtained higher grades like O, A+, A, B, C & P shall be taken into account in Rank ordering of the students.

23PGMT 10.0	**MAXIMUM DURATION FOR PROGRAMME COMPLETION**
23PGMT 10.1	The student shall complete the M.Tech. Programme within a period of six (06) academic years, failing which he shall discontinue the programme. The duration is considered from the date of admission to the programme.
23PGMT 11.0	**TRANSFER OF STUDENTS MIGRATION OF STUDENTS**
23PGMT 11.1	Transfer of students Migration of students from another University is permitted only at the beginning of odd semesters, subject to availability of seats within the permitted intake and subject to the prior approval of the Vice Chancellor of the University. Such students should have passed in all courses of 1st and 2nd semesters for admission to 3rd semester of M.Tech.
23PGMT 11.2	The students seeking admission shall have to: 1) Apply for establishment of equivalence with prescribed fees as notified by the University; and 2) Submit No Objection for admission from the migrating University before commencement of semester as notified by the University. 3) The University may prescribe fee for administrative purpose (for updating of the records), which shall be notified from time to time, for transfer.
23PGMT 12.0	**MISCELLANEOUS**
23PGMT 12.1	The academic regulations shall be read as a whole for the purpose of any interpretation.
23PGMT 12.2	Wherever the words "he", "him", "his" occur in the regulations, they include "she", "her", "her's".
23PGMT 12.3	In case of any doubt or ambiguity in the interpretation of the rules mentioned in the regulations, the decision of the Vice-Chancellor shall be final.
23PGMT 12.4	The University may change or amend the regulations and/ or curriculum at any time, and the changes or amendments made shall be applicable to all the students with effect from the date notified by the University.
23PGMT 12.5	These regulations governing the Degree of Master of Technology (M.Tech.) programme of the University may be modified from time to time with the approval of statutory bodies of the University and shall be binding on all.

Sd/-   Sd/-   Sd/-
Dean/Director   Registrar   Vice Chancellor