VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE
DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act, 1956)
Kanuru, Vijayawada - 520 007, AP. www.vrsiddhartha.ac.in
(Sponsored by Siddhartha Academy of General & Technical Education)

ACADEMIC REGULATIONS

M.TECH DEGREE PROGRAMS – V R SIDDHARTHA SCHOOL OF ENGINEERING

VRSEC - M.Tech - SU24

(2024-25 admitted batch)

CONTENTS

PREAMBLE

Velagapudi Ramakrishna Siddhartha Engineering College, a Deemed to be University, (VRSEC) emphasizes the transformative power of education and the pivotal role of higher learning in fostering an enlightened, equitable, and prosperous society. Established with a commitment to academic excellence, innovative research, and holistic development, VRSEC provides a supportive and inclusive environment where diverse ideas thrive, empowering every member to achieve their fullest potential. Guided by principles of integrity, respect, and social responsibility, VRSEC aims to contribute meaningfully to the global community for the common good. The University, with its experienced faculty, offers a top-notch education integrating theory and practical skills, preparing students for success in a rapidly evolving world through engaging lectures, hands-on learning, and advanced research opportunities. This document outlines the academic culture, procedures, and regulations of the courses taught at VRSEC, specifically for all postgraduate engineering programs (M.Tech.), effective from the academic year 2024-25.

1. ABOUT UNIVERSITY

1.1. Introduction

Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC), is the first Private Engineering College in the combined state of Andhra Pradesh, established in 1977. Sponsored by the Siddhartha Academy of General and Technical Education, formed in 1975 by 250 philanthropists, the University aims to promote educational excellence with a holistic approach. Catering to the educational needs of the region, 15 academic institutions have been established, offering education from kindergarten to postgraduate levels. VRSEC provides a comprehensive experience to its students, promoting research, skill development, real-life problem-solving, and entrepreneurship.

1.2. Vision

“To be a center of excellence in education, innovation, and research with a global presence in arts, science, technology, medicine, management, legal studies, and social studies, enriching the frontier areas of national and international importance”.

1.3. Mission

- To create a transformative educational experience for students focused on problem-solving skills, communication abilities, interpersonal relations, and leadership.
- To cultivate a vibrant university community that attracts and retains diverse, world-class talent, creating a collaborative environment open to the free exchange of ideas where research, creativity, innovation, and entrepreneurship can flourish, and ensuring individuals achieve their full potential.
- To impact society pragmatically - regionally, nationally, and globally - by engaging with industry, outstanding national and international universities, and research organizations.
- To be a global university that nurtures excellence in education and innovation, fostering a knowledgeable society.

1.4. Quality Policy

The University strives to impart knowledge, skills, and attitudes through continuous improvement to meet the ever-changing needs of industry and promote the sustainable development of society.

2. PURPOSE & SCOPE OF THE REGULATIONS

VRSEC's Academic regulations provide a framework for the functioning of all engineering programs. These regulations include procedures and practices to ensure academic standards, are approved by the Academic Council (AC), and are subject to amendments to meet evolving conditions. These regulations will come into effect from the academic year 2024-25 and apply to all VRSEC engineering postgraduate students.

2.1. Academic Regulations

The Academic Regulations provide a framework for academic progress and rules for obtaining a postgraduate degree from VRSEC. The academic administration such as the Registrar, Dean, Controller of Examinations, HoD's of the departments are responsible for the implementation of the regulations. All registered students must agree and abide by these regulations as a condition of enrolment.

2.2. Revision of Regulations

Regulations are published at the start of the academic year and remain in force until a subsequent version is published. Revisions are communicated through circulars and the University website. The Dean of Academics maintains the revised version and the archives of all previous versions of regulations.

3. ADMISSION

The admission policy and procedure are revised based on notifications from statutory bodies and government regulations. The number of seats in each postgraduate program is decided based on the approval by regulatory bodies such as AICTE/UGC and government regulations.

To be eligible for postgraduate programs at VRSEC, applicants must meet the prescribed eligibility criteria and entrance requirements. Students must undertake the Siddhartha Engineering Entrance Examination (SEEE) or qualify from A.P. state or national-level entrance exam. Admission is based on merit and availability of seats. VRSEC reserves the right to admit any candidate based on specified criteria without discrimination.

3.1. Eligibility for Admission

i. Minimum of 50% marks in appropriate undergraduate discipline or equivalent from a recognized body.
ii. A qualifying rank in the Siddhartha Post-Graduation Common Admission Test (SPCAT) or a qualifying rank in national/state entrance tests like GATE/PGECET.

3.2. Admission Procedure

Indian nationals are eligible for admission through SPCAT or through any other approved entrance test.

3.3 Scholarships

VRSEC offers scholarships based on marks/ranks obtained in entrance exams and other common entrance tests. Scholarships also recognize achievements in academics, sports, culture, and diversity criteria decided by the University.

3.3.1. Scholarship Regulations

i. Scholarships are awarded to recognize achievements and diversity.

ii. The scholarship amount is adjusted towards the tuition fee.

iii. Scholarships are extended subject to a CGPA of 7.5 or above every year for students who pass in the first attempt of all exams along with 75% of attendance. The Vice-Chancellor may relax this requirement for diversity or extenuating circumstances.

iv. Recipients should actively participate in societies and clubs and serve as role models.

v. Scholarships will be forfeited in cases of attendance shortage, leave of absence, academic break, academic probation, academic dishonesty, or pending disciplinary action.

vi. Scholarship amounts must be refunded in case of withdrawal from the program.

vii. The University scholarship committee reserves the right to modify policies.

4. ACADEMIC PROGRAMS

4.1. Nomenclature of Programs

The following table lists the M.Tech degree programs offered by the University, along with their abbreviations.

Table 1. Abbreviations

Name of the Program	Abbreviation
Automated Manufacturing System	AM
Computer Science and Engineering	CS
Data Science	DS
Structural Engineering	SE
VLSI Design and Embedded Systems	VE

4.2. Academic Activities

The Academic Council, chaired by the Vice-Chancellor and comprising Deans, HoDs, selected faculty members, external experts, and special invitees, governs the academic activities of VRSEC Deemed to be University. The Council oversees teaching, learning, and evaluation, while academic administrators handle curriculum revision, assessment procedures, and introduction of new programs. The University monitors academic progress, faculty performance, and student discipline, providing guidelines for teaching and learning processes, and framing rules for program implementation, leading to degrees and certificates.

4.3. Semester System

The academic year consists of two semesters: Odd (I, III) and Even (II, IV). The odd semester runs normally from June to November, and the even semester from December to April. The University can accommodate deviations in schedule due to unforeseen circumstances. Students must register for courses each semester, meeting prerequisites. Course syllabi are available on the website and lesson plans and assessment methods are available on the Learning Management System (LMS). Continuous and Summative assessments are conducted, and grades are communicated through the student information system.

4.4. Curriculum

The curriculum is developed with input from faculty, students, alumni, parents, industry, and regulatory bodies, ensuring alignment with Vision, Mission, Program Educational Objectives (PEOs) and Program Outcomes (POs).

4.4.1. Program Specifications

- Vision and Mission Statements of the Department
- Program Educational Objectives (PEO)
- Program Outcomes (PO)
- Curriculum/Program Structure: includes various categories of courses and credits

4.4.2. Course Specifications

- Course Information
- Course Description
- Course Aims and Objectives
- Course Structure
- Course Outcomes (CO)
- Mapping of Course Outcomes to Program Outcomes
- List of Text Books, Reference Books, and Web Resources

4.4.3. Curriculum Preparation:

Faculty members at the Department level shall initiate the discussions on the Programs to be offered for the ensuing Academic Year based on the stakeholder feedback and market trends. The Program Coordinator consolidates suggestions, and the Department Advisory Board

(DAB) reviews Program Educational Objectives and Program Outcomes. The Board of Studies (BoS) and the Academic Council (AC) approve the curriculum structure and syllabi, with the Head of the Department serving as the Chairperson of the BoS.

4.5. Duration of the Program

4.5.1. Normal Duration

The duration of an academic program shall be two years consisting of four semesters.

4.5.2. Maximum Duration

The maximum period that a student can take to complete a full-time academic program shall be double the normal duration of the program, i.e., four years.

4.5.3. Minimum Duration of a Semester

Each semester consists of a minimum of 90 instruction days excluding examination days.

4.6. Academic Calendar

The University issues an annual Academic Calendar, considering specific departmental requirements and synchronizing with admission notifications.

5. CURRICULUM FRAMEWORK

The curriculum framework is designed to facilitate the courses required to attain the expected knowledge, skills, and attitude by the time of their post-graduation as per the needs of the stakeholders. The curriculum framework consists of various course categories to cover the depth and breadth required for the program and for the attainment of Program Outcomes of the corresponding program. Each theory course consists of five units.

5.1. Curriculum Structure & Course Categories

Each specialization of the M.Tech program is designed to have a total of 70 credits, and the student shall have to earn all the credits for the award of the degree.

5.1.1 Professional Core

The Professional core consists of a set of courses considered necessary for the students of the specific program. The courses under this category satisfy the Program Specific Criteria prescribed by the appropriate professional societies/bodies.

5.1.2 Professional Electives

Professional electives are a set of courses offered in the program that cover depth and breadth to further broaden the student's knowledge. The students may register for appropriate electives offered in the program based on their area of interest.

5.1.3 Self-Learning Course

- Self-learning courses refer to educational resources that students can pursue independently, without formal classroom instruction. These courses are typically available online and cover a wide range of topics. Some of the Professional Core and Professional Electives are offered as self-learning courses.

- The self-learning courses can be registered and completed in any one of the approved MOOCS platforms such as NPTEL/Swayam etc. Students have to submit the certificate before the last instruction day of the subsequent Semester.

5.1.4 Mandatory Learning Course (Research Methodology and IPR):

It is mandatory for the students to undergo Research Methodology and IPR course and score satisfactory grade. No credits are allocated for this course.

5.1.5 Audit Course (Technical Report Writing):

The students shall enroll in a technical report writing course as an audit course for the purpose of self-enrichment and academic exploration. No credits are allocated for this course.

5.1.6 Term Paper:

The Term Paper consists of seminar presentations. For seminar, a student shall collect the literature on an advanced topic in relevant fields related to the program and critically review the literature, and submit it to the department in the form of report and shall make oral presentation before the Academic Committee consisting of program coordinator, guide and two other senior faculty members of the department.

5.1.7 Capstone Projects I& II:

Students have to carry out a small project applying the knowledge and hands-on technical skills they have gained through course work and lab sessions under Capstone Project I&II, respectively.

5.1.8 Internship:

Students shall undergo a mandatory summer internship for a minimum of six weeks' duration at the end of the second semester of the program.

The internship can be done by students in an Industry / Research organization/Institute of higher learning approved by the Head of the Department.

Evaluation of the summer internship shall be through the departmental committee. Students will be required to submit a summer internship report to the concerned department and appear for an oral presentation before the departmental committee.

5.1.9 Project (Part A and Part B):

The Project shall be offered in 2nd year of the program. The project shall be carried out by the students, as an individual project, for a minimum period of one academic year. The project shall be carried out in the major areas pertaining to the program approved by the Project Review Committee (PRC) and may address the societal problems/issues related to the program. The project shall consist of Part-A and Part-B, respectively, spreading over one semester each. Project part -B shall be the extension of project Part -A.

If the candidate wishes to change his/her topic of the project, he/she can do so with the approval of the project review committee within one week from the completion of 1st review.

5.1.9.1 Project Work in Collaboration with Industry:

With the approval of the Head of the Department, a student may visit an industry or a research laboratory for data collection, discussion of the project, experimental work, survey, field studies, etc., during the project period.

Projects sponsored by the industry or research laboratories will be encouraged, and a close liaison with such organizations will be maintained.

With the approval of the Project Review Committee, a student may do the project work in collaboration with an industry, a Research and Development Organization.

The student shall acknowledge the involvement and/or contribution of an industry or R&D organization in completing the project in his/her thesis, and a certificate to this effect, issued by the supervisor from the industrial organization, will be included in the thesis.

5.2 Course Numbering Scheme

The course numbering scheme consists of nine alphanumeric places. The scheme is as follows:

First two digits: Regulation year

Third and fourth places: Department abbreviation

Fifth and sixth places: Program abbreviation

Seventh digit: Level of the course (1-8, where 1-4 represent undergraduate years, 5-6 for PG years, and 7-8 for research level)

Eighth and Ninth digits: Course number (up to 80- theory courses, 80 and above Lab and Project courses)

Example: **24CESE505**

- Year of Regulation: 24
- Department: Civil Engineering (CE)
- Program: Structural Engineering (SE)
- Level of the Course: 5 (First-year M.Tech)
- Serial Number of the Course: 05, five indicates theory course.

Table 2. Nomenclature for Course Number

Year of Regulation	**Department and PG Program abbreviations**	**Level of the Course**	**Serial No. of the Course**
24	**CESE**	**5**	**05**
2 digits	4 places	1 digit	2 digits
year of regulation	**Department abbreviations**: **AI** - Artificial Intelligence and Data Science, **CE** - Civil Engineering, **CS** - Computer Science and Engineering, **EC** - Electronics and Communication Engineering, **EE** - Electrical and Electronics Engineering, **EI** - Electronics and Instrumentation Engineering, **IT** - Information Technology, **ME** - Mechanical Engineering, **Program abbreviations:** **AM-** Automated Manufacturing System **CS** – Computer Science and Engineering **DS** – Data Science **SE** – Structural Engineering **VE** – VLSI Design and Embedded Systems	**5-- I- year PG,** **6--II-year PG,** 7,8- research level	01 02 : : 80 For theory courses, 81 : : 99 For Lab and Project courses

5.3. Scheme of Instruction and Examination

The scheme of instruction and examination for all M.Tech programs is provided separately in the curriculum books.

5.4. Medium of Instruction and Examination

The medium of instruction and examination is English.

6. CREDIT SYSTEM AND GRADE POINTS

6.1. Credit Definition

Credits represent quantified and recognized learning, measured in contact periods per week in a semester. Typically, one credit is assigned to:

- A theory or tutorial course conducted for one contact period per week.
- A laboratory course conducted for two contact periods per week.

6.2. Credit Structure

A typical credit structure for M.Tech. coursework, based on the above definitions, is as follows:

Table 3: **Credit Definition**

Course Component	Credits
1 Hr. Lecture (L) per Week	1 Credit
1 Hr. Tutorial (T) per Week	1 Credit
1 Hr. Practical (P) per Week	0.5 Credit

6.3. Semester Course Load

The average course load is 17.5 credits per semester, with a minimum of 15 and a maximum of 20 credits.

6.4. Grade Points and Letter Grades for a Course

Grading is based on the evaluation of each course for 100 marks. Marks obtained are converted to a corresponding letter grade as shown in Table 4.

Grade Point: A numerical weight allotted to each letter grade on a 10-point scale.
Letter Grade: An index of student performance in a course is denoted by alphabets.
Grading System for M.Tech Theory / Lab / Project:

Table 4: **Marks, Grade points, and Grades**

Marks (Theory/Lab/Project)	Grade Points	Letter Grade	Grade Description
90% and above	10	Ex	Excellent
80 to < 90%	9	A+	Very Good
70 to < 80%	8	A	Good
60 to < 70%	7	B+	Above Average
55 to < 60%	6	B	Average
50 to < 55%	5	C	Below Average
< 50%	0	F (Fail)	Fail
ABSENT	0	AB	--
--	NA	S	Satisfactory (Non-Credit courses)
--	NA	U	Unsatisfactory (Non-Credit courses)

6.5. Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

i. Semester Grade Point Average (SGPA): The Semester Grade Point Average (SGPA) is calculated as the ratio of the sum of the product of the number of credits and the grade points scored in all the courses taken by a student to the sum of the number of credits of all the courses undertaken by the student. It is expressed as:

$$\text{SGPA} = \frac{\sum(\mathbf{C_i} \times \mathbf{G_i})}{\sum \mathbf{C_i}}$$

where $\mathbf{C_i}$ is the number of credits of the $\mathbf{i^{th}}$ course and $\mathbf{G_i}$ is the grade point scored in the $\mathbf{i^{th}}$ course.

ii. Cumulative Grade Point Average (CGPA): The Cumulative Grade Point Average (CGPA) is computed similarly, considering all the courses taken by a student across all semesters of a program. It is expressed as:

$$\text{CGPA} = \frac{\sum(\mathbf{C_i} \times \mathbf{S_i})}{\sum \mathbf{C_i}}$$

where $\mathbf{S_i}$ is the SGPA of the $\mathbf{i^{th}}$ semester and $\mathbf{C_i}$ is the total number of credits in that semester.

- Both SGPA and CGPA shall be rounded off to two decimal points and reported in transcripts.
- Courses in which a student is awarded zero grade points will be/ included in the SGPA/CGPA calculations.

6.6. Conversion Formula for CGPA to Percentage Marks

The approximate equivalence of marks to a given CGPA is calculated using the formula:

$$\text{Percentage Equivalence of CGPA} = (\text{CGPA} - 0.75) \times 10$$

7. EXAMINATIONS AND SCHEME OF EVALUATION

7.1. Description of Evaluation

Continuous Assessment (CA): Students' performance is evaluated continuously throughout the semester by the faculty or course coordinator considering various components including sessional examinations, project reviews, viva voce, laboratory assessments, and other activities covering the entire syllabus of the course.

Summative Assessment (SA): It shall be conducted by controller of examinations at the end of each semester, as per the academic calendar and with a written examination for theory courses and practical/project examination, with oral component for laboratory/project courses.

7.2 Theory Courses

Assessment of a student's performance in theory courses consists of two components.

a) Continuous Assessment: 40% weightage.
b) Summative Assessment: 60% weightage.

a) **Continuous Assessment: 40 Marks**

- Two Sessional examinations each for 25 marks, will be conducted for 90 minutes duration. Sessional Marks are awarded with 2/3 weightage for the higher-scoring sessional test and 1/3 for the lower-scoring sessional test.
- 15 marks are allotted for project-based assessments/assignments/seminars decided by the faculty.

b) **Summative Assessment: 100 Marks**

- The Summative Assessment shall be conducted for a 3-hour duration for 100 marks with a weightage of 60%, at the end of the semester. Double valuation procedure is followed and reevaluation facility is not available for M.Tech program.

7.3 Laboratory Courses

a) Continuous Assessment: 60% weightage.

- The Laboratory courses are assessed under Continuous Assessment for a maximum of 60 marks. Assessment in laboratory courses comprises of components such as day-to-day work, record submission and viva voce on the experiment.

b) Summative Assessment: 40% weightage.

- The Summative Assessment for laboratory courses shall be conducted for three-hour duration at the end of semester for 100 marks with 40% weightage.
- Assessment in laboratory courses comprises of components such as procedure, execution, result and viva voce on the experiment.
- Summative Assessment of Laboratory courses shall be conducted by an Internal Examiner recommended by HoD and appointed by the Dean of School.

7.4 Integrated Course

An Integrated Course, comprising both theory and laboratory components, undergoes a specific method of evaluation:

- The theory part is evaluated similar to any other course without a laboratory. The laboratory component is assessed in a manner akin to other independent lab courses, but the final evaluation occurs during the last lab session of the semester. The marks scored in theory and laboratory are taken in proportion to the respective credits in theory and laboratory. The total marks are calculated for 100 together. Grades are given as per the marks scored in the subject.
- Ex: A course that has 2L + 1T +2P hours per week will have 4 credits (3 theory credits and 1 lab credit). The theory is evaluated for 100 marks (40% continuous

assessment and 60% summative assessment). The laboratory is evaluated for 100 marks (60% continuous assessment and 40% summative assessment).

- The theory part reduced as 100*3/4 = 75
- Lab part reduced as 100*1/4 =25

The course total marks are now 100. Grades are awarded like for any other course.

7.5 Term Paper and Capstone Projects

a) Continuous Assessment: 60% weightage.

- Students have to carry out Term Paper, and Capstone Projects individually and they are assessed for 60 marks under Continuous Assessment. Continuous Assessment includes weightages for day-to-day work and periodic reviews by a committee appointed by HoD.

b) Summative Assessment: 40% weightage.

- The Summative Assessment for Term Paper, and Capstone Projects shall be conducted at the end of the semester for 100 marks with a weightage of 40%. Summative assessment includes weightages for the report preparation, oral presentation and final viva voce.
- Summative Assessment of Term Paper, and Capstone Projects shall be conducted and evaluated by the internal committee nominated by the HoD.

7.6 Project Part A (III Semester) & Project Part B (IV Semester)

a) Continuous Assessment: 60% weightage.

- Students have to carry out Projects individually and they are assessed for 60 marks under Continuous Assessment. Continuous Assessment includes weightages for day-to-day work and periodic reviews by a committee appointed by HoD.

b) Summative Assessment: 40% weightage.

- The Summative Assessment for Projects shall be conducted at the end of the semester for 100 marks with a weightage of 40%. Summative assessment includes weightages for the report preparation, oral presentation and final viva voce.

- Summative Assessment of Project Part-A shall be conducted and evaluated by the internal project review committee nominated by the HoD.
- Summative Assessment of Project Part-B shall be conducted and evaluated by the external examiner nominated by the Dean of the school along with an internal examiner.
- Acceptance of a paper in Scopus indexed journal or International Conference based on project work is mandatory for submission of the final thesis.
- Plagiarism check is mandatory with a maximum 25% plagiarism index before submission of the thesis.
- Student shall be permitted to submit Dissertation/ Thesis only after acquiring credits of all theory, practical, and project-related courses including mandatory and audit courses.
- Student entrepreneurs working on a start-up idea during the first year of the program may be permitted to convert their start-up project as their final year project towards degree completion.

7.7 Non-Credit Mandatory Courses

These courses carry 100% weightage in Continuous Assessment. No Summative Assessment will be conducted for these courses.
Continuous Assessment: 100 Marks

- Two sessional examinations for 40 marks each will be conducted for 90 minutes' duration.
- 20 marks are allotted for home assignments/seminars.

7.8 Audit Course:

No Credits are awarded for this course. However, students must maintain a minimum of 75% attendance to get satisfactory grade in audit course.

7.9 Internship

a) Continuous Assessment: 60% weightage.

- For internships, the student shall submit individual internship report on the successful completion of the training.

- Internships are assessed under continuous evaluation for 60 marks. Periodic reviews are conducted under continuous assessment by the coordinator in the industry/laboratory and a committee appointed by the HoD .

b) Summative Assessment: 40% weightage.

- The Summative Assessment for Internship shall be conducted at the end of semester for 100 marks with a weightage of 40%. Summative assessment includes weightage for report and final viva voce.
- Summative Assessment of the Internship shall be conducted and evaluated by a committee nominated by the HoD.

7.10 Self-Learning Courses

Massive Open Online Courses(MOOCs) Courses

Students can register and complete the opted course in any one of the approved MOOCs platforms. These courses can be chosen from the list of approved MOOCs providers (SWAYAM / NPTEL).

While choosing the courses, the following norms are to be observed.

- Minimum duration of the course shall be 12 weeks for a 3 credit course and can be a combination of related courses with a total duration of 12 weeks.
- The courses shall not be a part of the curriculum and must be approved by the respective Boards of Studies.
- In case a student fails to complete the MOOCs course, he/she may be allowed to register again for the same/ alternative course from the list approved by the department. However, the students have to register with the examination section for submitting the completed MOOCs certificates.
- If a student fails to complete the opted NPTEL courses before the completion of the fourth semester, supplementary examinations will be conducted with the NPTEL syllabus by the school/ university for the subjects in which candidates appeared and failed in the MOOCs (NPTEL) platform in the M Tech IV semester and the results will be declared before the commencement of the Project Viva–Voce examination.

7.11. Requirement for Pass

a) A student shall be declared to have passed in individual Theory course if he/she secures a minimum of 50% aggregate marks (continuous assessment&summative assessment marks put together), subject to a minimum of 40% marks in the summative assessment.

b) A student shall be declared to have passed an individual lab/course if he/she secures a minimum of 50% aggregate marks (continuous assessment & summative assessment marks put together), subject to a minimum of 50% marks in the summative assessment.

c) A student shall be declared to have passed in a mandatory course if he/she secures a minimum of 50% aggregate marks in the Continuous assessment. Summative assessment is not done for mandatory courses

d) Since the Integrated courses are a combination of theory with lab component, the pass requirement for theory part is similar to an individual theory course and for lab part, it is similar to any other individual lab course.

e) A student has to pass the failed course by appearing in the examination when conducted next, as per the requirement for the award of degree.

f) A student shall be declared to have passed project part A/project part B, if he/she secures a minimum of 50 % aggregate marks (continuous evaluation and semester-end examination put together), subjected to a minimum of 50 % of marks in semester end examinations.

g) If any student does not fulfill the pass requirement as per 8.11. (f) in Summative Assessment of Project Part – A, he/she will be given two months' additional time to re-appear for Summative Assessment after paying the requisite examination fee. If a student does not fulfill the pass requirement again in Project Part – A as per 8.11(f), he/she has to repeat the semester in next academic year.

h) In a special case, if any student does not submit his / her thesis of Project Part-B, due to ill health or any other valid reason, he/she will be given another chance to attend for Project Viva – Voce examination conducted separately at a later date i.e. within two months from the completion of Project Part–B Summative Assessment of that particular academic year after paying the requisite examination fee.

i) Student must submit pass certificate obtaining a minimum of 50% aggregate marks (internal & external combined) of the NPTEL/SWAYAM (MOOCs) courses

j) On passing a course of a program, the student shall earn assigned credits in that Course.

7.12. Announcement of Results

- The Controller of Examinations (CoE) will announce the results at the end of each semester. Students can access their grades in the Student Information System or website of the University.

7.13. Malpractices

- The Dean of the school shall refer the cases of malpractice in summative assessment to the CoE, who in turn refers to a Malpractice Enquiry Committee. Such a committee shall follow the approved scales of punishment. The University shall take necessary action, against the erring students based on the recommendations of the committee.
- The cases of malpractices in continuous assessment tests (both Theory and Practical) shall be resolved by the Head of the Department.
- If the Student have any grievance on the decision of the Head of the Department, he/she may appeal to the Dean of the school in the case of continuous assessment tests.
- Any action on the part of a student at an examination trying to get undue advantage in the performance or trying to help another, or derive the same through unfair means is punishable.
- The involvement of the Staff, who are in charge of conducting examinations, valuing examination papers and preparing/keeping records of documents relating 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 examination shall be viewed seriously and recommended for award of appropriate punishment after thorough inquiry.
- The complete information regarding offense and punishment is available with Controller of Examination.

8. ACADEMIC PROGRESSION

8.1. Criteria to Attend Summative Assessment and Promotion to Higher Semester

8.1.1. Eligibility for Summative Assessment

a) **Attendance (Minimum: 75%)**

- A student shall be eligible to appear for Summative Assessment if he/she acquires a minimum of 75% attendance in aggregate of all the courses in the semester.
- Condonation of shortage in attendance may be recommended by respective Heads of Departments on genuine medical grounds, provided the students put in at least 65% attendance and the Dean of the school is satisfied with the genuineness of the reasons and conduct of the student.
- A student will not be promoted to the next semester unless he satisfies the attendance requirements of the present semester, as applicable. They may seek readmission for that semester when offered next.
- A stipulated fee shall be payable towards condonation of shortage of attendance to the school / university.

b) **Marks (Minimum: 50%)**

- A minimum of 50% aggregate marks from all courses in that semester (except self-leaning, and internship) in continuous assessment is required to be eligible to appear in Summative Assessment.
- A shortage of continuous assessment marks up to a maximum of 10% may be condoned by the Dean of the school based on the recommendations of the respective Heads of the Departments, if he/she fulfils attendance requirements.
- Students having a shortage of continuous assessment marks up to a maximum of 10% shall have to pay the requisite fee towards condonation.
- *Students who fail to register for the summative assessment shall not be permitted to continue the subsequent semester and have to repeat the semester for which he/she has not registered for summative assessment.*
- Student, who does not satisfy the attendance and/or continuous assessment marks requirement, shall have to repeat that semester.

8.2 Supplementary Examinations

- A Student has to pass the failed course by appearing in the Supplementary Summative Assessment. In every semester Supplementary Summative Assessment of even & odd semesters will be conducted.
- Supplementary Summative examinations shall be conducted in courses of each semester four times after the new regulations come into force. There after student has to appear for Supplementary examinations in the equivalent courses as prescribed by the concerned BoS.

8.3 Readmission Criteria

8.3.1 Readmission after Detention due to lack of attendance/marks

- A student detained in a semester due to lack of attendance/marks, has to obtain written permission from the Dean of the school for readmission into the same semester after duly fulfilling all the required norms stipulated by the University in addition to paying a requisite readmission fee.

8.3.2 Readmission after Break in Study

- Students, who discontinue their studies for any reason, can get readmission into an appropriate semester of the M.Tech program after break-in study, with the prior permission from the Dean of the school and following the transitory regulations applicable to such batch in which he/she joins.
- A requisite readmission fee for each year of break in study in addition to the prescribed tuition fee and special fee has to be paid by the student to condone his/her break in study.

8.3.3 Calculation of attendance for readmitted students

- Students should submit a written request to the Dean of the school, along with a challan paid towards tuition and other fees for readmission, one week before the commencement of the class work.
- Students can obtain the information regarding the date of commencement of class work for each semester on the University notice boards/website.

- Number of classes will be counted from the commencement of class work of the semester and not the date of payment of tuition fee, if he/she has paid the tuition fee after the commencement of class work.

8.4 Transitory Regulations

- A student, detained or discontinued in a semester, on re-admission shall be required to pass all the courses prescribed to the readmitted batch of students. The academic regulations which are in force at the time of his/her admission shall be applicable to them.
- However, the exemption will be given to the students who have already passed courses in the earlier semester(s) as per the regulation he/she was admitted and substitute courses are to be studied under transitory regulation as approved by the Academic Council.

9. AWARD OF DEGREE

9.1 Eligibility for Award of M.Tech. Degree

The M. Tech Degree shall be conferred on a student satisfying the following requirements.

A student should register for 70 Credits and should earn 70 credits to be eligible for the award of M. Tech Degree.

9.2 Award of Division

The criteria for the award of division, after successful completion of the program as per Section 10.1 is given in Table5

Table5: **Criteria for Award of Division**

CGPA	DIVISION
≥ 8.0	*First Class with distinction
≥ 6.75	First Class
≥ 5.75 - < 6.75	Second Class
≥ 5.00 - < 5.75	Pass Class
< 5	Fail

- ★ First Class with Distinction is awarded only if all courses registered are passed in the first attempt within two years.
- ★ Detained and break-in study students are not eligible for the award of First Class with Distinction
- ★ The students permitted for a break in study under the entrepreneurship/start-ups provision shall be considered for the award of first class with distinction
- ★ Students whose project summative assessment of either Part-A or Part-B are extended for two months' additional time are not considered for the award of first class with distinction.
- ★ The cases of students who are absent for the summative assessment only once in the duration of the M.Tech program on valid medical grounds/humanitarian grounds shall be considered for the award of First class with Distinction subject to the recommendations of the committee constituted by the Dean-Academics. For the purpose of awarding degree, CGPA obtained in the examinations within the maximum period allowed for the completion of the program shall be considered.
- ★ The student failing to pass in the MOOCs courses and / or Mandatory courses in the first attempt and pass later as supplementary examination, may also be awarded "Distinction" akin to other students who pass all the courses in the first attempt and fulfill the required conditions for the award of "Distinction"

9.3 Consolidated Grade Card

A consolidated grade card containing credits & grades obtained will be issued after successful completion of the two-year M.Tech Program.

10. AMENDMENTS TO REGULATIONS

The Academic Council may, from time to time, revise, amend, or change the regulations, schemes of examination, and/or syllabi.

11. DEFINITIONS

- An Academic Program means any combination of courses and/ or requirements leading to the award of a degree.
- "Course" means a subject either theory or practical identified by its course number and course title which is normally studied in a semester.
- "Degree" means an academic degree conferred by the university upon completing the postgraduate curriculum.
- "MOOC" means Massive Open Online Course

Dean, Academics **Dean, Examinations**