



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

**ACADEMIC RULES AND REGULATIONS OF TWO-YEAR
M.TECH. REGULAR DEGREE PROGRAMME APPLICABLE
FOR THE STUDENT BATCHES ADMITTED FROM THE
ACADEMIC YEAR 2022 – 2023**

1.0 PREAMBLE:

Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology (VNRVJIET) aims at achieving academic excellence by implementing new initiatives in teaching-learning and evaluation processes. Based on the directions of the University Grants Commission (UGC), New Delhi, All India Council for Technical Education (AICTE), New Delhi and Jawaharlal Nehru Technological University (JNTU) Hyderabad, VNRVJIET introduced the Choice Based Credit System (CBCS) in both the under-graduate and post-graduate programmes offered from the academic year 2015 – 2016. Keeping in view of the standardization of the higher education system in India, VNRVJIET is continuing the implementation of CBCS ahead. In line with the **National Education Policy (NEP) 2020**, many of the NEP initiatives have been implemented at VNRVJIET.

2.0 SHORT TITLE, APPLICATION AND COMMENCEMENT:

- These regulations shall be called as the “**VNRVJIET M.Tech. Choice Based Credit System (CBCS) Academic Regulations, 2022**”. In short, it shall be referred as ‘**VNRVJIET M.Tech. CBCS R22 Regulations**’.
- The regulations are quite comprehensive and include definitions of key terms, semester system, credit system, grading system and other relevant details.
- The regulations detailed herein shall apply to all the regular and professional under-graduate programmes offered by the Institute.
- These regulations shall be applicable and come into force to the student batches admitted from the academic year 2022-2023 onwards.
- The Institute may revise, amend or change the regulations, scheme of examinations and syllabi, from time to time, if found necessary and on approval by the Academic Council of the Institute, keeping the recommendations of the BoS in view.
- Any or all such amendments shall be effective from such date and to such batches of students including those already undergoing the programme, as may be approved through Academic Council of the Institute.

3.0 CHOICE BASED CREDIT SYSTEM:

- The Choice Based Credit System (CBCS) enables a student to obtain a degree by accumulating the required number of credits prescribed for that degree. Under the CBCS, the requirement for awarding a degree is prescribed in terms

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of number of credits to be completed by the students. The number of credits earned by the student reflects the knowledge or skill acquired by him / her. Each course is assigned with a fixed number of credits based on the contents to be learned. The student also has choice in selecting the courses out of those offered by the various departments. The grade points earned for each of the course reflects the student's proficiency in that course.

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

4.0 ABBREVIATIONS:

Abbreviation	Full Form
AAT	Alternative Assessment Tool
AC	Academic Council
AICTE	All India Council for Technical Education
B.Tech.	Bachelor of Technology
BIE	Board of Intermediate Education
BL	Bloom's Level
BT	Bloom's Taxonomy
BoS	Board of Studies
C	Credit
CA	Class Assessment
CBCS	Choice Based Credit System
CBSS	Credit Based Semester System
CGPA	Cumulative Grade Point Average
CIE	Continuous Internal Evaluation
CO	Course Outcomes
CoE	Controller of Examinations
CP	Credit Point
D	Drawing
DoA	Dean of Academics
ELA	Experiential Learning Assessment
G	Grade
GO	Government Order
GP	Grade Point
HoD	Head of the Department

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IAC	Institute Academic Committee
JNTUH	Jawaharlal Nehru Technological University Hyderabad
L	Lecture
LES	Lateral Entry Scheme
M.Tech.	Master of Technology
MOOC	Massive Open Online Course
NAAC	National Assessment and Accreditation Council
NBA	National Board of Accreditation
NEP	National Education Policy 2020
NPTEL	National Programme on Technology Enhanced Learning
OBE	Outcome Based Education
P	Practical
PG	Post-Graduate
Ph.D.	Doctor of Philosophy
PO	Programme Outcomes
PSO	Programme Specific Outcomes
SEE	Semester End Examination
SGPA	Semester Grade Point System
SWAYAM	Study Webs of Active Learning for Young and Aspiring Minds
T	Tutorial
UG	Under-Graduate
UGC	University Grants Commission
VNRVJIET	Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology

5.0 NOMENCLATURE:

S. No.	Keywords	Definition
1.	Academic Council:	Highest academic body of the Institute and is responsible for the maintenance of standards of instruction, education and examination within the Institute. Academic Council is an authority as per the AICTE / UGC regulations and has the right to take decisions on all academic matters including academic research.
2.	Academic Plan:	A document defining the course contents and complete details of plan of delivery of the course viz. Course title, Course code, Pre-requisite, Credit structure, Team of instructors, Course objectives, Course outcomes, Mapping of course outcomes and programmes outcomes, relevant syllabus, textbook(s) and reference books, Course session plan and delivery plan, evaluation

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		method, course notices and other course related aspects.
3.	Academic Year:	A period that is necessary to complete courses of study. It consists of two consecutive (one odd + one even) semesters.
4.	Admission Procedure:	As prescribed by the Government of Telangana.
5.	Assessment:	Assessment is one or more processes, carried out by the Institution that identify collect and prepare data to evaluate the achievement of Program Educational Objectives and Program Outcomes.
6.	Audit Course:	A course of study which has neither evaluation component nor a grade.
7.	Autonomous Institute:	An Institute designated as 'Autonomous' by University Grants Commission (UGC), New Delhi in concurrence with the affiliating University i.e., Jawaharlal Nehru Technological University, Hyderabad and Telangana State Government.
8.	Backlog Course:	A course is considered to be a backlog course if the student has obtained a Fail (F) grade.
9.	Basic Science Courses:	Courses of foundational nature in the areas of Mathematics, Physics, Chemistry, Biology etc.
10.	Betterment:	Betterment is a way that contributes towards improvement of the students' grade in any course(s). It can be done by either (a) re-appearing or (b) re-registering for the course.
11.	Board of Studies:	An authority, as defined in UGC regulations, constituted by the Principal for each of the department separately. The board is responsible for curriculum design and update in respect of all the programmes offered by a department.
12.	Branch:	A discipline or specialization of a degree programme like Civil Engineering, Mechanical Engineering etc.
13.	Certificate Course:	A course that makes a student gain hands-on expertise and skills required for holistic development. It is a mandatory, non-credited course for the award of degree.
14.	Choice Based Credit System (CBCS):	A system which provides choice for students to select from the prescribed courses.
15.	Compulsory Course:	Course required to be undertaken for the award of the degree as per the programme.
16.	Continuous Internal Evaluation (CIE):	Summative assessments used to evaluate student learning, acquired skills, and academic attainment during a course.

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17.	Course:	A course offered for learning in a particular semester by the Institute. These could be theory / laboratory / project work / mini project / internship etc. and may comprise of lectures / tutorials / practicals / assignments / examination / viva-voce etc. All the courses need not carry the same weightage. A course is defined through course objectives and course outcomes.
18.	Course Outcomes (CO):	Statements describing essential skills that each and every student need to acquire at the end of a course. They can be from 3 to 5 for all the courses.
19.	Course Registration:	Process of enrolling into a set of courses in a semester of the programme.
20.	Credit:	A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one lecture hour of teaching (lecture or tutorial) or two hours of practical / fieldwork per week.
21.	Credit Based Semester System (CBSS):	A system which prescribes the number of credits to be secured by the student for the requirement of award of degree.
22.	Credit Point:	A product of grade point and number of credits for a course.
23.	Credit Transfer:	The procedure of granting credit(s) to a student for course(s) undertaken online through MOOC.
24.	Cumulative Grade Point Average (CGPA):	A measure of overall cumulative performance of a student over all semesters. It is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
25.	Curriculum:	Curriculum incorporates all the courses that are offered in a specific discipline. It also indicates the planned interaction of students with instructional content, materials and resources.
26.	Degree:	A student who fulfills all the programme requirements is eligible to receive a degree.
27.	Department:	An academic entity that conducts relevant curricular and co-curricular activities, involving both teaching and non-teaching staff and other resources.
28.	Detention:	Student who does not secure minimum required attendance in AGGREGATE shall be detained OR Student who does not secure

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		minimum credits required for promotion from one year to the next shall be detained.
29.	Dropping of Courses:	A student who does not want to register certain courses should do so in writing in a prescribed format within the time frame as mentioned in these regulations.
30.	Engineering Science Courses:	Courses belonging to the basic evolutionary aspects of engineering from Mechanical Engineering, Electrical Engineering, Computer Science etc. like Workshop Practices, Engineering Graphics, Engineering Drawing, Programming through C, Basics of Electrical Energy for Engineers, Engineering Mechanics, etc.
31.	Evaluation:	Evaluation is the process of judging the academic work done by the student in his / her courses. It is done through a combination of continuous internal evaluation and semester end examinations.
32.	Field Project:	A credit-based course that a student has to undergo, as prescribed in the programme, which involves the student to undertake issues for industries, companies, and any organizations which they encounter in their day-to-day work.
33.	Grade Point:	A numerical weight allotted to each letter grade on a 10-point scale.
34.	Grade Sheet:	Based on the grades earned, a grade sheet shall be issued to all the registered students after every semester. The grade sheet shall display the course details (Course code, Course title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.
35.	Humanities & Social Sciences Courses:	Courses offered in the area of humanities and liberal arts.
36.	Industry Engagement:	A course consisting of visits to industries and series of lectures by eminent speakers from the Industry/Research
37.	Industrial Visit:	Visit to a company / firm as per the academic requirement.
38.	Institute:	VNRVJIET
39.	Internship:	A period of training / work experience offered by an industry / research organization / academic institution for a limited period of time as specified in these regulations.
40.	Laboratory based Course Projects:	A student-centric learning methodology wherein students work as individuals or in teams in a laboratory for design, problem-solving, decision making, and investigative activities.

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41.	Letter Grade:	An index of the performance of students in a said course. Grades are denoted by letters like O, A+, A, B+, B, C, F, Ab.
42.	Mandatory Courses:	Compulsory non-credit courses that a student need to study as prescribed in the programme.
43.	Mapping	Mapping is the process of representing the correlation among the Course Outcomes and program Outcomes and Program Specific Outcomes in a matrix form.
44.	Massive Open Online Courses (MOOC):	Open access online courses aimed at providing ways to learn new skills.
45.	Mini-Project	A credit-based course that a student has to undergo during a specified semester involving exploration in a discipline belonging to their research interest within their programme of study.
46.	Open Elective Courses:	Courses of interdisciplinary nature offered to all the students of various programmes across the Institute.
47.	Outcome Based Education:	An educational theory wherein each part of an educational system is based around goals (outcomes). Each student should have achieved the goal by the end of the educational experience.
48.	Overloading:	Registering for more number of credits than normally prescribed by the programme in a semester.
49.	Pre-requisite:	A course whose knowledge is required for registration into higher level course.
50.	Professional Core Courses:	Courses that are fundamental constituents of the respective engineering discipline.
51.	Professional Elective Courses:	Courses those are discipline specific.
52.	Programme:	A set of courses offered by the department leading to the award of degree in that programme.
53.	Programme Educational Objectives (PEO):	Broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.
54.	Programme Outcomes (PO):	Statements describing the essential skill sets that each and every student need to possess at the time of graduation. These skill sets based on the graduate attributes as defined by the National Board of Accreditation (NBA) are in the areas of employability, entrepreneurial, social, and behavioral aspects. They are 12 in number for a specific programme and are subjected to modification from time to time as defined by the NBA.

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55.	Programme Specific Outcomes (PSO):	Statements that describe what the graduates of a specific programme should be able to do. They can be 3 to 5 in number for a specific programme.
56.	Project:	A credit-based course that a student has to undergo, as prescribed in the programme, which involves the student to undertake a research or design that is carefully planned to achieve a particular aim.
57.	Re-appearing:	A student can reappear only in the supplementary semester end examination for the external component of a course, subject to the exam registration and the regulations contained herein.
58.	Regulations:	The rules and regulations contained herein that are common to all the B.Tech. programmes offered by the Institute and designated as "VNRVJIET B.Tech. CBCS R22 Regulations"
59.	Re-registering:	A student desiring to repeat a course is permitted to do so, subject to the regulations contained herein.
60.	Rubrics:	Tool for assessment and grading for measuring students' performance and learning.
61.	Semester:	Each semester shall consist of 16 weeks of academic work excluding examination and evaluation.
62.	Semester End Examination:	An examination conducted at the end of a course of study i.e., after the completion of instruction in a semester.
63.	Semester Grade Point Average:	A measure of performance of work done in a semester. It is ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.
64.	Skill Development Course:	A credit-based course offered for gaining experience in certain skills.
65.	Substitute Courses:	A course that is offered in place of another course that is already studied by the student and is repeated in the semester of study.
66.	Technical Seminar:	A course in which a student shall collect literature on a technical topic of his / her choice, critically review the literature and present it to the Seminar Review Committee (SRC).

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67.	Underloading:	Registering for lesser number of credits than normally prescribed by the programme in a semester.
68.	University:	Jawaharlal Nehru Technological University Hyderabad
69.	Virtual Laboratories:	Web enabled experiments for remote operation so as to increase the curiosity and innovation of students and provide hands-on experience.

6.0 POST-GRADUATE DEGREE PROGRAMMES ON OFFER:

VNRVJIET offers 2-year (4 semesters) **Master of Technology (M.Tech.)** degree programme, under **Choice Based Credit System (CBCS)**, with effect from the academic year 2022 - 2023 onwards, in the branches as shown in the Table 1.

Table 1 M.Tech. programmes of study on offer

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

7.0 ELIGIBILITY FOR ADMISSION:

The eligibility criteria for admission into M.Tech. degree programmes offered at VNRVJIET shall be as prescribed by the Government of Telangana.

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

8.0 MEDIUM OF INSTRUCTION:

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

9.0 M.TECH. PROGRAMME STRUCTURE:

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

Semester Scheme:

- The M.Tech. programmes offered at VNRVJIET follow **semester scheme** pattern.
- The duration of a M.Tech. programme shall be of **2 academic years**.
- Each academic year shall have **2 semesters** i.e., odd and even semesters and shall be counted as I semester, II semester, III semester and IV semester.
- Each semester shall consist of **22 weeks** (≥ 90 instructional days) of academic work including examination and evaluation.
- Each semester is structured to provide credits totaling to **68 credits** for the entire M.Tech. programme.
- Each semester shall have '**Continuous Internal Evaluation (CIE)**' and '**Semester End Examination (SEE)**.'
- Each student shall secure a total of **68 credits with a CGPA ≥ 6.0** required for the completion of the M.Tech. programme and the award of the M.Tech. degree.
- A student after securing admission into a M.Tech. programme at VNRVJIET shall pursue and acquire the M.Tech. degree in a **minimum period of two academic years i.e., 4 semesters** and a **maximum period of four academic years i.e., 8 semesters** starting from the date of commencement of I semester (I year I semester), failing which the student shall forfeit the seat in M.Tech. programme.

10.0 DURATION OF THE ACADEMIC PROGRAMMES:

- Under CBCS, programme duration shall be defined by the period in which a student earns the prescribed credits for the award of M.Tech. degree.

❖ Normal Duration:

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

❖ Maximum Duration:

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

11.0 COURSES AND CREDIT STRUCTURE:

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

Table 2 Contact hour and credit structure

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

- Courses like Research Methodology and IPR, Happiness and Wellness, Ancient Wisdom, Disaster Management, Constitution of India etc. are mandatory audit courses. These courses shall not carry any credits.
- Every course of the M.Tech. programme shall be offered by a specific section / department. The unique codes of the section / department offering the courses are given in the Table 3.

Table 3 Course offering section / branch / department

Course Offering Section / Branch / Department	Code
English	EN
Mathematics	MT
Management	MG
Humanities & Social Sciences	HS
Structural Engineering	ST
Geotechnical Engineering	GT
Highway Engineering	HW
Power Electronics	PL
Power Systems	PS
Advanced Manufacturing Systems	AM
CAD/CAM	CD
VLSI System Design	VS
Embedded Systems	ES
Software Engineering	SW
Computer Science and Engineering	CP
Electronics and Instrumentation	LI
Computer Networks and Information Security	CN

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❖ Structure:

- Every M.Tech. programme of study shall be designed to have theory and laboratory courses. In addition, a student shall carry out research methodology and IPR, mini project, technical seminar, project/dissertation and mandatory non-credit courses as prescribed in the curriculum of the programmes.
- Every course offered under a M.Tech. programme shall be placed in one of the course categories with minimum credits as listed in the Table 4.
- The course group / category along with their broad classification and description are listed in the Table 5.

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

Type of Courses	Course Category	Code	Range of Credits	Credit Composition (%)
Compulsory Courses	Professional Core	PC	22	32.35
	Communication Skills for Academic and Research Writing	SD	01	41.18
	Industry Engagement	PW	01	
	Project	PW	22	
	Technical Seminar	PW	02	
	Mini-project	PW	02	
Elective Courses	Professional Elective	PE	15	22.06
	Open Elective	OE	03	4.41
Mandatory Audit Courses	Mandatory	MN	Non-Credit	--
Total			68	100
MOOC	Online	OL	--	--
Virtual Laboratories	Online	VL	--	--

Table 5 Description of Courses

Broad Course Classification	Course Group/ Category	Description of Courses
Core	Professional Core	Includes core courses related to the parent discipline / department / branch of Engineering
	Project Work	M.Tech. Project / Dissertation Part-I and Part-II
	Mini-project	M.Tech. Mini-project
	Technical Seminar	Seminar on a technical topic
	Industry Engagement	Visits to Industry and series of lectures by Industry professionals

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Elective	Professional Electives	Includes elective courses related to the parent discipline / department / branch of Engineering
	Open Electives	Elective courses which include inter - disciplinary courses or courses in an area outside the parent discipline / department / branch of Engineering
Mandatory	-	Mandatory non-credit courses

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

❖ Course Registration:

- All the students must compulsorily register for course work at the beginning of each semester as per the schedule mentioned in the Academic Calendar.
- It is essential for the students to register for all the prescribed courses in time.
- The registration shall be organized by the department under the supervision of the Head of the Department.
- Every course may have one or more of its preceding course(s) as prerequisite(s).
- A 'faculty advisor or program coordinator or mentor or counselor' shall be assigned to a group of 20 students, who shall advise them about the M.Tech. programme, its course structure and curriculum, choice / option for course / courses, based on their competence, progress, pre-requisites if any and interest.
- The academic section of the college shall invite 'registration forms' from students before the beginning of the semester through '**on-line registration,**' ensuring '**date and time stamping**'.
- The online registration requests for any 'current semester' shall be **completed before the commencement of SEEs (Semester End Examinations) of the 'preceding semester.'**
- A student shall register courses online with the approval of faculty advisor or mentor or counselor.' A copy of it shall be retained by the student and other copies be submitted online to the concerned HoD, faculty mentor and Dean of Academics.
- A student may be permitted to register for all the courses in a semester with credits as prescribed in the course structure of the concerned M.Tech. programme with maximum additional course(s) limited to 6 credits (any 2 elective courses), based on the progress and SGPA / CGPA, and completion of the 'pre-requisites' as indicated for various courses, in the course structure of the programmes and syllabus contents.
- Choice for 'additional courses', not more than any 2 elective courses in any semester, must be clearly indicated, which needs the specific approval and signature of the faculty advisor or mentor or counselor and HoD.
- Additional courses shall be offered only upon meeting the prerequisites, if any, as mentioned in the programme curriculum.
- **If the student submits ambiguous choices or multiple options or erroneous entries during on-line registration of the courses as listed in the course structure, only the first mentioned course shall be taken into consideration and shall be treated as FINAL choice.**
- **Course options exercised through 'on-line registration' shall be FINAL**

and cannot be changed or inter-changed; further, alternate choices also shall not be considered.

- However, if the course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice either for a new course (subject to offering of such a course), or for another existing course (subject to the availability of seats). Such alternate arrangements shall be made by the Head of the Department, with due notification and time-frame schedule, within the **first week** after the commencement of classwork for that semester.
- **IN ABSENTIA** registration **shall not be permitted** under any circumstance.
- **At the time of registration, students should have cleared all the dues of Institute and Hostel (if applicable) in the previous semesters, paid the prescribed fees for the current semester and not been debarred from Institute for a specified period on disciplinary or any other ground.**

❖ **Open Elective Courses:**

- The students shall choose **one open elective course in third semester (II year I semester)** from the list of open electives as prescribed in the course structure of the programme.
- Open elective courses that are already studied by a student cannot be pursued again/repeated even if offered.
- Open elective courses should not match with any course category (Professional Core, Professional Electives, Mandatory Courses etc.) even in the forthcoming semesters.

❖ **Professional Elective Courses:**

- Students shall register for a total of **05 professional elective courses (PE-I to PE-V)** from the list of professional elective courses as prescribed in the course structure of the programme.
- Compulsory core courses can be chosen by the students of the respective disciplines only.
- However, the students of a particular discipline can register for discipline / interdisciplinary courses of other disciplines provided they have met the pre-requisite or when the pre-requisite is waived by Dean of Academics. Courses that are already studied by a student cannot be pursued again/repeated even if offered.
- In case of options from students of other departments/branches/disciplines for professional elective courses (not open elective courses), first priority shall be given to the student of the parent department.

❖ **Dropping of Courses:**

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

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studentship in a semester. However, the total credits registered in a semester should not exceed the maximum number of credits permitted to register in that semester.

13.0 ATTENDANCE REQUIREMENTS AND DETENTION POLICY:

- **Attendance** in all classes (Lectures/Laboratories) is **compulsory**.
- A student shall maintain a **minimum required attendance of 75 % in ALL THE COURSES, including mandatory audit courses.**
- Minimum required attendance of 75% shall be maintained in all the mandatory courses offered in a semester like Research Methodology & IPR, Happiness and Wellness, Ancient Wisdom, Disaster Management, Constitution of India etc.
- **Two periods** of attendance for **each theory course** shall be considered **if the student appears for the sessional examination** of that course.
- Shortage of attendance upto a maximum of 10% (considering the days of attendance in sports, games, NCC, NSS activities and Medical grounds) i.e., attendance between 65% to 75% in each course (Theory/Lab/Mini-Project/Technical Seminar) of a semester, may be condoned by the Institute Academic Committee based on the rules prescribed by the Institute Academic Committee from time to time.
- **Shortage of attendance below 65 % shall in NO CASE be condoned.**
- A stipulated fee, as fixed by the Institute, shall be payable towards condonation of shortage of attendance.
- **A student whose shortage of attendance is not condoned in any course(s) like Theory, Laboratory, Mini Project, Technical Seminar in any semester is considered as 'DETAINED' in these Course(s) and is not eligible to write the SEE.**
- **A student who has not paid the stipulated fee OR who have not cleared any other fee dues to the Institute in any semester are not eligible to write the Semester End Examination (SEE).**
- Students, who **do not meet the minimum required attendance** in a semester, shall be detained in that semester and their **registration for that semester shall stand cancelled, including all academic credentials (internal marks etc.) of that semester. They shall not be promoted to the next semester.**
- Student detained in a course(s) shall seek re-admission for all such courses in subsequent semesters and attend the same as and when offered.
- Students detained in a semester shall seek re-admission into that semester as and when offered again.
- However, in the case of re-admission to a semester (semester detention due to lack of attendance) by a student, academic regulations applicable to the semester in which re-admission is sought shall be applicable to the re-admitted student.
- In case if there are any professional electives and/or open electives, the same may also be re-registered if offered. However, if those electives are not offered in the later semesters, then alternate electives may be chosen from the **same** set of elective courses offered under that category.
- Any student against whom any disciplinary action is pending shall not be permitted to attend semester end examination (SEE) in that semester.
- **A student fulfilling the attendance requirement in the present semester shall not be eligible for re-admission into the same class.**

13.1 Promotion Rules:

- Apart from the minimum required attendance conditions as specified in 13.0 of these regulations, the attendance conditions to be fulfilled by a student for getting promoted from the current semester to the next semester are given in the Table 6.

Table 6 Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	I semester (I year I semester) to II semester (I year II semester)	<ul style="list-style-type: none"> i. Regular course of study of I semester (I year I semester) ii. Must have put-in minimum required attendance of 75% in atleast 03 theory courses excluding mandatory audit courses
2	II semester (I year II semester) to III semester (II year I semester)	<ul style="list-style-type: none"> i. Regular course of study of II semester (I year II semester). ii. Must have put-in minimum required attendance of 75% in atleast 03 theory courses excluding mandatory audit courses

14.0 MINIMUM ACADEMIC REQUIREMENTS:

- In addition to the attendance requirements mentioned in 13.0 of these regulations for the award of M.Tech. degree, a student must satisfy the minimum academic requirements as given below:
- A student shall be deemed to have satisfied the minimum academic requirements and earned the credits for each **theory and practical** courses in M.Tech. programme, if student secures
 - ✓ A **minimum of 40% marks (16 marks out of 40 marks)** for each course in the **continuous internal evaluation (CIE)**
 - ✓ A **minimum of 40% marks (24 marks out of 60 marks)** for each course in the **semester end examination (SEE)**, and
 - ✓ A **minimum of 50% marks (50 marks out of 100 marks)** for each course considering **both CIE and SEE** taken together.
 - ✓ In terms of letter grades, a 'B' grade and above in that course.
 - ✓ **A student is eligible to write Semester End Examination of the concerned course, if the student scores $\geq 40\%$ marks (i.e., 16 marks out of 40 marks) in CIE.**
 - ✓ **In case, the student appears for Semester End Examination (SEE) of the concerned course but fails to score minimum 40% marks (i.e., 16 marks out of 40 marks), then his/her performance in that course in SEE shall stand cancelled inspite of student appearing for the SEE.**
- A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to **Industry Engagement, Technical Seminar and Mini-project** courses, if student secures
 - ✓ A **minimum of 50% of total marks (50 marks out of 100 marks)** for industry engagement, technical seminar and mini-project courses in the **CIE and SEE** taken together

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- A student shall be treated as **failed**, if he
 - ✓ **does not submit a report** on industry engagement, technical seminar and mini-project, **OR**
 - ✓ **does not make a presentation** of the same before the evaluation committee as per the schedule, **OR**
 - ✓ **secures less than 50% marks (50 marks out of 100 marks)** in overall evaluation
 - The failed student shall reappear for the above evaluation when the notification for supplementary examination is issued.
- In order to successfully complete the M.Tech. degree programme, a student shall
 - **register** for all the courses covering **68 credits** as specified and listed in the course structure of the M.Tech. programme,
 - **fulfills** all the **attendance** and **academic requirements** for **68** credits,
 - **'earn all 68 credits'** by **securing SGPA \geq 6.0** (in each semester) and **CGPA \geq 6.0** (at the end of each successive semester)
 - **passes all the mandatory courses**
- SGPA shall be computed and printed on the marks memo only if the student passes in all the courses offered and secures a minimum of '**B**' grade in all the courses.
- CGPA shall be calculated only when a student passes all the courses offered in all the semesters of the M.Tech. programme.
- The performance of the student in these 68 credits shall be considered for the calculation of the final CGPA (at the end of the M.Tech. programme) and shall be indicated in the grade card/marks memo of IV semester (II year II semester).
- If a student registers for 'extra courses' (in the parent department or other departments/branches of Engineering) other than those listed courses totaling to 68 credits as specified in the course structure of his department, then the performances in those 'extra courses' (although evaluated and graded using the same procedure as that of the required 68 credits) shall not be considered while calculating the SGPA and CGPA. For such 'extra courses' registered, percentage of marks and letter grade alone shall be indicated in the grade card / marks memo as a performance measure, subject to completion of the attendance and academic requirements as stated in items 13 and 14 above in these regulations.
- If a student fails to secure a pass grade in a particular course, it is mandatory that he shall register and reappear for the examination in that course during the next semester when SEE is conducted in that course. It is mandatory that he should continue to register and reappear for the examination till he secures a pass grade.
- A student eligible to appear in SEE of any course but remains absent from it or gets failed (failing to secure B' grade or above) may reappear for that course in the supplementary SEE as and when conducted. In such cases, CIE assessed earlier for that course shall be carried over and added to the marks to be obtained in the supplementary SEE examination for evaluating the performance in that course.
- A student detained in a SEMESTER due to shortage of attendance, may be re-admitted when the same semester is offered in the next academic year for fulfillment of academic requirements. Academic regulations applicable to the semester in which re-admission is sought shall be applicable to the re-admitted student, by paying the prescribed readmission fees per semester.
- A student detained in a COURSE(S) due to shortage of attendance, may be

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allowed to re-register in the course(s) when the same course(s) is offered in the next academic year for fulfillment of academic requirements, by paying the prescribed fees per course. Academic regulations applicable to the semester in which course re-registration is sought shall be applicable to the re-registered student.

- **A student detained in any course(s) in any semester due to shortage of attendance**, no grade allotments or SGPA/ CGPA calculations shall be made for that semester. A student allowed to re-register a course(s), student shall have to secure a fresh set of internal marks and semester end examination marks for performance evaluation in such courses for SGPA/CGPA calculations.
- A student shall register and put up **minimum academic requirement in all 68 credits and earn all 68 credits** for the award of M.Tech. degree.
- Students who **fail to earn 68 credits** as indicated in the course structure **within four academic years** counting from the year of their admission shall forfeit his seat in M.Tech. programme and his admission stands cancelled.

16.0 DISTRIBUTION OF MARKS AND EVALUATION METHODOLOGY:

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

16.1 Theory Courses:

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

❖ Continuous Internal Evaluation (CIE - 40 M):

- Continuous Internal Evaluation (**CIE**) shall consist of sessional examination (**SE - 30 M**), Class Assessment (**CA - 05 M**) and Experiential Learning Assessment (**ELA - 05 M**).

➤ Sessional Examination (SE - 30 M):

- For theory courses, **two sessional examinations (SE-I and SE-II)** shall be conducted in each semester as per the academic calendar. Each sessional examination shall be evaluated for **30 marks**.
- The **time** duration of each SE shall be **2 hours**.
- Question paper pattern for **SE (30 Marks)** shall be as follows:

PART-A: 5 X 2 M = 10 M

- All questions are **compulsory**.
- 02 questions from Unit-I and Unit-II each and 01 question from first half of Unit-III in First sessional examination (SE-I)
- 01 question from second half of Unit-III and 02 questions from Unit-IV and Unit-V each in Second sessional examination (SE-II)

PART-B: 20 M

- There shall be a total of 06 questions.
- There shall be **two questions** from **each UNIT** with **internal choice** i.e.,

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- 'either' 'or' choice.
- c. Student shall answer **one question** from **each UNIT**.
- d. Part-B Paper pattern is as follows:

Sessional Examination - I (SE-I)	UNIT-I	Q.1	8 M
		OR	
	UNIT-II	Q.2	8 M
		Q.3	8 M
		OR	
	UNIT-III	Q.4	8 M
Q.5		4 M	
OR			
Sessional Examination - II SE-II)	UNIT-III	Q.6	4 M
		OR	
		Q.1	4 M
	UNIT-IV	Q.2	4 M
		OR	
		Q.3	8 M
	UNIT-V	Q.4	8 M
		OR	
		Q.5	8 M
		Q.6	8 M

- First sessional examination (SE-I) shall be conducted on Unit-I, Unit-II and first half of the Unit-III.
- Second sessional examination (SE-II) shall be conducted on second half of the Unit-III, Unit-IV and Unit-V.
- **Average of two SEs** shall be calculated and used as the final sessional marks for each course.

➤ **Class Assessment (CA - 05 M):**

- **Two class assessments** consisting of any one of the alternative assessment tools (AAT) like **online quiz / assignment / objective exam etc.** shall be conducted covering the syllabus that is completed at the time of conducting the CA and evaluated for **05 marks** each.
- The first and second CAs shall be conducted during the instruction days as per the academic calendar.
- **Average of two CAs** shall be calculated and used as the final class assessment marks.
- The valuation and verification of answer scripts of CIE shall be completed within a week after the conduct of the examination.

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- **Experiential Learning Assessment (ELA - 05 M):**
- **Course project / course viva-voce / poster presentation / case study etc.** in the concerned course shall be conducted before **Sessional Examination-I (SE-I) and Sessional Examination-II (SE-II)** and evaluated for **05 marks**.
- **Average of two ELAs** shall be calculated and used as the final sessional marks for each course.
- ❖ **Semester End Examination (SEE - 60 M):**
- The **SEE** shall be conducted at the end of semester for a total of **60 marks**.
- The **time** duration of the SEE shall be **3 hours**.
- The **syllabus** for the **theory courses** shall be divided into **FIVE units** and each unit carries equal weightage in terms of marks distribution.
- Question paper pattern for **SEE (60 Marks)** shall be as follows:

PART-A: 5 X 2 M = 10 M

- a. There shall be **one question from each UNIT**.
- b. All questions are **compulsory**.

PART-B: 5 X 10 M = 50 M

- a. There shall be **two questions** from **each unit** with **internal choice** i.e., '**either**' '**or**' choice.
- b. The student shall **answer one question** from **each UNIT**.
- c. There could be a maximum of two subdivisions in a question i.e., (a) and/or (b).

16.2 Practical Courses:

- For practical courses including Communication Skills for Academic and Research Writing, there shall be a **continuous internal evaluation (CIE)** during the semester for **40 marks** and **60 marks** for **semester end examination (SEE)**.
- **CIE (40 marks)** shall consist of

✓ Day-to-day	10 marks
✓ Laboratory record	10 marks
✓ Internal practical examination	10 marks
✓ Course project consists of Design or Software / Hardware Model presentation or App Development or Prototype development etc.	10 marks
- SEE shall be conducted at the end of semester for a total of **60 marks**.
- The time duration of the SEE shall be **3 hours**.
- **SEE (60 marks)** shall consist of

✓ Initial procedures & diagrams	10 marks
✓ Conduct of experiment & collection of data	15 marks
✓ Analysis of data / results / graphs etc.	15 marks
✓ Course project report	10 marks
✓ Viva-voce on concerned laboratory course	10 marks
- SEE shall be conducted by two examiners, one internal and other external concerned with the subject area from the same / other department / Industry.

NOTE:

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

16.3 Supplementary Semester End Examinations:

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

16.4 Technical Seminar:

- A student shall present a seminar on a technical topic during the first semester (I year I semester) of the M.Tech. programme.
- A student, under the supervision of a faculty member, shall collect literature on a technical topic of his / her choice, critically review the literature and submit it to the Seminar Review Committee (SRC) in a report form as prescribed by the Academic Section.
- The SRC shall consist of Head of the Department, faculty supervisor and a senior faculty member of the specialization / department.
- Student shall make an oral presentation before the SRC after clearing the **plagiarism check**.
- Evaluation of the technical seminar shall consist of CIE and SEE for a total of **100** marks.
- CIE shall be carried out for **40 marks** on the basis of **review presentation** as per the academic calendar and evaluation format provided by DoA.
- SEE shall be carried out at the end of semester for **60 marks** on the basis of an oral presentation and submission of mini-project report after clearing the plagiarism check.
- A candidate has to secure a **minimum of 50 %** to be declared successful.
- Prior to the submission of seminar report to the SRC, its soft copy shall be submitted to the PG Coordinator for **PLAGIARISM check**.
- The report shall be accepted for submission to the SRC, if the similarity index is **less than 25 %**. If the similarity index is more than the required percentage, the student shall be advised to modify the content accordingly and **re-submit** the soft copy of the report **after one week**.
- The **maximum number of re-submissions** of seminar report after plagiarism check is **limited to TWO**. After this, the student shall be deemed to secure 'Fail' grade in the Technical Seminar and shall re-register for it in the next semester.

16.5 Mini-Project:

- A student shall undergo a mini-project during the second semester (I year II semester) of the M.Tech. programme.
- A student, under the supervision of a faculty member, shall collect literature on an allotted project topic of his / her choice, critically review the literature, carry out the mini-project, submit it to the department in a report form as prescribed by the Academic Section and shall make an oral presentation (seminar) before the departmental Project Review Committee (PRC).
- Evaluation of the mini-project shall consist of CIE and SEE and shall be done by a Project Review Committee (PRC) consisting of the Head of the

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Department, faculty supervisor and a senior faculty member of the specialization / department for a total of **100** marks.

- CIE shall be carried out for **40** marks on the basis of **review presentation** as per the academic calendar and evaluation format provided by DoA.
- SEE shall be carried out at the end of semester for **60** marks on the basis of an oral presentation and submission of mini-project report after clearing the plagiarism check.
- A student has to secure a **minimum of 50 %** marks to be declared successful.
- Prior to the submission of mini-project report to the PRC, its soft copy shall be submitted to the PG Coordinator for **PLAGIARISM check**.
- The mini-project report shall be accepted for submission to the PRC, if the similarity index is **less than 25 %**. If the similarity index is more than the required percentage, the student shall be advised to modify the content accordingly and **re-submit** the soft copy of the report **after one week**.
- The **maximum number of re-submissions** of mini-project report after plagiarism check is **limited to TWO**. After this, the student shall be deemed to secure 'Fail' grade in the mini-project and shall re-register for it in the next semester.

16.6 Industry Engagement:

- There shall be a 1 credit course in II semester (I year II semester) on "Industry Engagement".
- Industry Engagement course shall comprise of the following:
 - ✓ Series of lectures by eminent speakers from the Industry/Research
 - ✓ Industrial Visits
- A student, under the supervision of a faculty member, shall compile the lecture series and industrial visit information and submit it to the department in a report form.
- Evaluation shall consist of CIE and SEE and shall be done by a Department Committee consisting of the Head of the Department, faculty supervisor and a senior faculty member of the specialization / department for a total of **100** marks.
- CIE shall be carried out for **40** marks on the basis of **review presentation** as per the academic calendar and evaluation format provided by DoA.
- SEE shall be carried out at the end of semester for **60** marks on the basis of an oral presentation and submission of report after clearing the plagiarism check.
- A student has to secure a **minimum of 50 %** marks to be declared successful.
- Prior to the submission of industry engagement report to the PRC, its soft copy shall be submitted to the PG Coordinator for **PLAGIARISM check**.
- The industry engagement report shall be accepted for submission to the PRC, if the similarity index is **less than 25 %**. If the similarity index is more than the required percentage, the student shall be advised to modify the content accordingly and **re-submit** the soft copy of the report **after one week**.
- The **maximum number of re-submissions** of industry engagement report after plagiarism check is **limited to TWO**. After this, the student shall be deemed to secure 'Fail' grade in the mini-project and shall re-register for it in the next semester.

16.7 Project:

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

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- Those students who could not secure minimum marks in Project Review II [Phase-II] shall reappear for Project Review II at the time of Project Review III [Phase-I]. These students shall reappear for Project Review III in the next academic year at the time of Project Review II [phase I], only after completion of Project Review II, followed by Project Review III.
- Those students who could not secure minimum marks in Project Review III [Phase-II] shall reappear for Project Review III in the next academic year only at the time of Project Review II [Phase-I].
- After approval from the PRC, a soft copy of the thesis shall be submitted for **PLAGIARISM check** to the Examination Branch. The thesis shall be accepted for submission and evaluation, if the similarity index is **less than 25%**. If the similarity index has more than the required percentage, the student shall be advised to modify the thesis accordingly and **re-submit the soft copy of the thesis after one month**. The plagiarism report should be included in the final thesis. The **maximum number of re-submissions of thesis after plagiarism check is limited to TWO**. After that, the candidate has to register for the project work and work for two semesters. After three attempts, the admission is liable to be cancelled.
- For the approval of PRC, the candidate shall submit the draft copy of thesis to the Head of the Department and make an pre-submission seminar before the PRC.
- A student shall be permitted to **submit the Project Thesis** subjected to **fulfilling** the following **conditions**:
 - ✓ **Successful completion of all theory, practical and project related courses** including **mandatory / audit courses**
 - ✓ **Submission not earlier than 40 weeks** from the date of approval of the project work by the PRC.
 - ✓ Presentation of the project work in **Show and Tell** activity
 - ✓ Publication of a minimum of one research paper (covering **atleast 75 %** of the project work) in peer-reviewed national / international journals / conferences indexed in **SCOPUS / Web of Science / SCI etc. OR** Publication of a **Patent** based on the project work. Copy of the paper / patent to be enclosed at the end of the thesis.
 - ✓ Similarity index is **less than 25 %** in the **Plagiarism** check. Certificate indicating the same to be attached in the thesis.
 - ✓ **Approval** given by the **PRC** based on **successful completion of Project Reviews**.
- **Three copies** of the Project Thesis certified by the supervisor shall be submitted to the Examination branch.
- The thesis shall be adjudicated by an external examiner selected by the Principal / Chief Controller of Examinations. For this, the supervisor concerned and Head of the Department shall submit a panel of three examiners from the list of experts in the relevant specialization from Academia/Industry/Research Organizations to the Principal / Chief Controller of Examinations.
- If the report of the external examiner is unsatisfactory, the candidate shall revise and resubmit the Thesis. If the report of the examiner is unsatisfactory again, the thesis shall be summarily rejected. Subsequent actions for such dissertations may be considered, only on the specific recommendations of the external examiner and / or Project Review Committee. No further correspondence in this matter shall be entertained, if there is no specific recommendation for resubmission.

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

16.8 MOOC:

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

16.9 Value Added Courses:

- The value-added courses / certificate courses offered through joint ventures with various industries / organizations provide ample scope for the students as well as faculty to keep pace with the latest technologies pertaining to their chosen field of studies.
- A plenty of value-added programmes approved by the BoS shall be proposed by the departments one week before the commencement of classes.
- The students are given the option to choose the course inclinations as per their choice.

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- Students interested in pursuing value added courses shall register for the courses in the department office at the beginning of the semester against the courses that are announced by the department.
- Course progress shall be monitored by the course coordinator designated by the HoD.
- Result of value-added courses shall be declared with "**Satisfactory**" or "**Not Satisfactory**" performance.
- Grade obtained through value added course shall not be considered for the SGPA/CGPA calculation.

16.10 Mandatory Audit Courses:

- A student shall pursue the entire mandatory and audit courses as specified in the course structure of the B.Tech. programme.
- These courses are among the compulsory courses and **do not carry any credits**.
- Mandatory courses shall not carry any credits but, securing **40 marks out of 100**, shall be **necessary requirement** for the student to qualify for the **award of Degree**.
- **Two sessional examinations** shall be conducted in each semester as per the academic calendar.
- Each sessional examination shall be evaluated for **50 marks**.
- Question paper pattern for **sessional examination (50 Marks)** of Mandatory Audit courses shall be as follows:

Sessional Examination - I (SE-I)	UNIT-I	Q.1	10 M
		Q.2	10 M
	UNIT-II	Q.3	10 M
		Q.4	10 M
	UNIT-III	Q.5	10 M
Sessional Examination - II SE-II)	UNIT-III	Q.1	10 M
		Q.2	10 M
	UNIT-IV	Q.3	10 M
		Q.4	10 M
	UNIT-V	Q.5	10 M

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- **Sum total of two sessional examinations** shall be calculated and used as the final sessional marks.
- Result of mandatory audit courses shall be declared with **“Satisfactory” or “Not Satisfactory”** performance.
- No marks or letter grade shall be allotted.
- The students shall have four chances in total to clear a specific mandatory and audit course.

16.11 Virtual Laboratories:

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

17.0 RE-ADMISSION / RE-REGISTRATION OF COURSES:

17.1 Re-admission of a Discontinued Student:

- A student who has discontinued the M.Tech. program due to any reason whatsoever may be considered for ‘re-admission’ into the same degree program (same specialization) with the academic regulations of the batch into which he gets re-admitted with prior approval.

17.2 Re-registration of Courses:

- A student who is detained in a course(s) due to shortage of attendance in any semester may be permitted to re-register for the same course(s) in the same category (core or elective group) as and when offered in the subsequent semester(S), with the academic regulations of the batch into which he seeks re-registration with prior approval.
- If the same course is not available then student may be allowed to re-register in an equivalent course as suggested by the Board of Studies of that department.
- A student shall be given **one-time chance to re-register** for a **maximum of two courses in a semester and attend the classes**, if
 - ✓ **Internal marks secured** by student in **CIE** are **less than 50%** and **failed in those courses but fulfilled the attendance requirement.**
- A student must **re-register** for the **failed course(s) within four weeks of commencement of the classwork in next academic year.**
- In the event of the **student taking this chance**, his **CIE marks for 40** and **SEE marks for 60 obtained in the previous attempt stand cancelled.**

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18.0 CONDUCT OF SEMESTER END EXAMINATIONS AND EVALUATION:

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

19.0 REVALUATION:

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

20.0 PERFORMANCE AND GRADING SYSTEM:

- Performances of students based on the percentage of marks obtained (CIE and SEE, both taken together) in each of the courses (Theory / Practical / Technical Seminar / Mini Project / Industry Engagement and Project Stage) in the programme are expressed in terms of Letter Grades based on an **absolute grading system**. The 10-point grading system with letter grades and their grade points are shown in the Table 7.

Table 7 Grade and Grade Points

% of Marks Obtained in a Course	Letter Grade	Description of Grade	Grade Points (GP)
>= 90.00	O	Outstanding	10
>= 80.00 and < 90.00	A+	Excellent	9
>= 70.00 and < 80.00	A	Very Good	8
>= 60.00 and < 70.00	B+	Good	7
>= 50.00 and < 60.00	B	Above Average	6
< 50.00	F	Fail	0
Not Appeared in the Exam(s)	Ab	Absent	0

- A student who has obtained an 'F' grade in any course shall be deemed to have 'failed' and is **required to reappear** as a '**supplementary student**' in the semester end examination, as and when conducted.
- In such cases, CIE marks in those courses shall remain the same as those obtained earlier.
- If a student has not appeared for an examination in any course, 'Ab' grade shall be allocated in that course, and he is **deemed to have 'Failed'** and is **required to reappear** as a '**supplementary student**' in the semester end

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- examination, as and when conducted next.
- In this case also, the internal marks in those courses shall remain the same as those obtained earlier.
- A letter grade** does not indicate any specific percentage of marks secured by the student, but it **indicates only the range of percentage of marks**.
- A student shall **not be permitted to repeat any course(s)** for the sake of '**Grade Improvement**' OR '**SGPA/CGPA Improvement**'.

21.0 COMPUTATION OF SGPA AND CGPA:

➤ CALCULATION OF SEMESTER GRADE POINT AVERAGE (SGPA):

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

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

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

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

- SGPA is rounded off to TWO decimal places.

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

➤ CALCULATION OF CUMULATIVE GRADE POINT AVERAGE (CGPA):

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

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

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

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

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

- CGPA is rounded off to TWO decimal places.
- CGPA is computed from II semester (I year II semester) onwards.

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- After registration and successful completion of I semester (I year I semester), SGPA of I semester itself may be taken as CGPA as there are no cumulative effects
- Grade lower than B in any course shall not be considered for CGPA calculation. The CGPA shall be awarded only when the student acquires the required number of credits prescribed for the programme.

➤ ILLUSTRATION OF COMPUTATION OF SGPA AND CGPA:

❖ Illustration of calculation of SGPA:

Course Name	Course Credits (C)	Letter Grade	Grade Point (GP)	Credit Point (CP = C x GP)
Course 1	3	A	8	3 x 8 = 24
Course 2	4	B+	7	4 x 7 = 28
Course 3	3	B	6	3 x 6 = 18
Course 4	3	O	10	3 x 10 = 30
Course 5	3	C	5	3 x 5 = 15
Course 6	4	B	6	4 x 6 = 24
TOTAL CREDITS	20	TOTAL CREDIT POINTS		139

$$\text{Thus, SGPA} = \frac{139}{20} = 6.95$$

❖ Illustration of calculation of CGPA upto II semester:

Semester	Course Name	Course Credits (C)	Letter Grade Secured	Grade Point (GP)	Credit Point (CP = C x GP)
I	Course 1	4	A	8	32
I	Course 2	3	O	10	40
I	Course 3	3	B	6	18
I	Course 4	3	C	5	15
I	Course 5	1	A+	9	9
I	Course 6	1	B+	7	7
I	Course 7	3	O	10	30
I	Course 8	1	C	5	5
I	Course 9	1	A	8	8
II	Course 10	3	A	8	24
II	Course 11	3	A+	9	27
II	Course 12	3	B	6	18
II	Course 13	3	A	8	24
II	Course 14	3	A+	9	27
II	Course 15	1	A	8	8
II	Course 16	1	A	8	8
II	Course 17	2	B	6	12
II	Course 18	1	A+	9	9
TOTAL CREDITS		40	TOTAL CREDIT POINTS		321

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$$\text{Thus, CGPA} = \frac{321}{40} = \mathbf{8.02}$$

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

22.0 DECLARATION OF RESULTS:

- Computation of SGPA and CGPA are done using the procedure mentioned in 20.0.
- For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

$$\% \text{ of Marks} = (\text{final CGPA} - 0.5) \times 10$$

23.0 PASSING STANDARDS:

- A student shall be declared **successful** or '**passed**' in a **semester**, if he secures a **GP \geq 6 ('B' grade or above)** in **every course in that semester** (i.e., when the student gets an **SGPA \geq 6.0** at the end of that particular semester)
- A student shall be declared **successful** or '**passed**' in the **entire M.Tech. programme**, only when if he secures a **CGPA \geq 6.00 ('B' grade or above)** for the award of the degree as required.
- After the completion of each semester, a grade card or grade sheet shall be issued to all the registered students of that semester.

23.1 Grade Card:

The grade card issued shall contain the following:

- a) Course code, course title, no. of credits for each course offered in that semester
- b) Letter grade and grade point awarded in each course
- c) Credits earned in each course
- c) SGPA/CGPA
- d) Total number of credits earned by the student up to the end of that semester.

24.0 SCHEME FOR THE AWARD OF DEGREE:

24.1 Award of M.Tech. Degree:

- A student shall be declared qualified for the award of the M.Tech. degree in the concerned branch of Engineering and Technology with the specialization allotted at the time of admission, if he/she fulfils the following academic rules:
 - ✓ Pursued **a programme of study for not less than two academic years and not more than four academic years** from the date of commencement of the first academic year.
 - ✓ Registered for **68 credits** and secured a minimum of **68 credits with CGPA \geq 6.0**.

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

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programme.

24.2 Awarding of Class based on CGPA:

- A student who qualifies for the award of the degree as listed in item 23.1 above shall be placed in the following classes based on their CGPA at the end of the M.Tech. degree programme.

Table 8 CGPA and Class

CGPA	Class
≥ 7.75	First Class with Distinction
≥ 6.75 and < 7.75	First Class
≥ 6.0 and < 6.75	Second Class

25.0 CREDIT TRANSFER:

❖ Credit transfer facility through MOOC:

- Detailed guidelines regarding credit transfer of the courses pursued through MOOC (NPTEL-SWAYAM) shall be issued time to time by the Academic Section.

26.0 WITH-HOLDING OF RESULTS:

- If a student has not paid the pending fee dues to the institute due to any reason whatsoever or if any case of indiscipline / malpractice is pending against him, the results of such student shall be withheld and shall not be promoted to the next semester as a punitive action.
- The issue of the award of the provisional certificate and the M.Tech. degree is liable to be withheld in such cases.

27.0 DISCIPLINE:

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

28.0 TRANSITORY REGULATIONS:

28.1 Students detained due to shortage of attendance:

- A student who has been detained in any semester of M.Tech. I year of R19/A19 academic regulations for want of attendance, shall be permitted to rejoin the corresponding semester of R22 academic regulations. Such a student is required to complete the M.Tech. regular degree programme within the stipulated period of four academic years from the date of first admission in I year.
- R22 academic regulations shall be applicable to the student from the semester of readmission onwards.
- He shall take up equivalent courses, as substitute courses in place of repeated courses as decided by the Chairman of the BoS of the respective departments.

28.2 For readmitted students in R22 Academic Regulations:

- A student who has failed in any course(s) under any regulation has to pass those course(s) in the same regulations.
- Minimum academic requirement of R22 academic regulation shall be applicable to all the readmitted students.
- Credit structure as defined in the course structure of M.Tech. programmes under R22 academic regulation shall be followed from the semester of readmission.
- The maximum credits that a student acquires for the award of degree, shall be the sum of the total number of credits secured in all the regulations of his study including R22 regulations. **There is NO EXEMPTION OF CREDITS in any case.**
- If a student readmitted to R22 academic regulations, has any course with 80% of syllabus common with his previous regulations, then that particular course in R22 academic regulations shall be substituted by another course as suggested by the Board of Studies (BoS) of the concerned department.
- If a student readmitted to R22 academic regulations, has not studied any courses/topics in his/her earlier regulations of study which is prerequisite for further courses in R22 academic regulations, the department HoD concerned shall conduct remedial classes to cover those courses/topics for the benefit of the students.

29.0 MINIMUM INSTRUCTION PERIOD:

- The minimum instruction period for each semester shall be **16 weeks** (excluding examinations).

30.0 GENERAL:

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

MALPRACTICE RULES**DISCIPLINARY ACTION FOR IMPROPER CONDUCT IN EXAMINATIONS**

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

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

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

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10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that course and all other courses the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the courses of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that course and all other courses the student has appeared including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the Principal for further action to award suitable punishment.	

Malpractices identified by squad or special invigilators:

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

Malpractice identified at Spot center during valuation:

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

1) Malpractice is detected at the spot valuation.

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

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

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

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

Malpractice Prevention Committee:

i. Dean, Examinations	Chairman
ii. Dean, Academics	Member
iii. Controller of Examinations	Member
iv. Exam Hall Invigilator	Member
v. Chief Examiner of the course/course expert	Member
vi. Concerned Head of the Department	Member