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With CGPA 3.52

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दूरध्वनी - इपीबीएक्स - २०६०९०००, अभ्यासमंडळे विभाग : ०२३१- २६०९०९४, २६०९४८७
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जा.क्र./शि.वि/अं.म./547 दिनांक:— १०/०९/२०२५

प्रति,

१.मा. संचालक / प्राचार्य,
सर्व संलग्नीत अभियांत्रीकी महाविद्यालय,
शिवाजी विद्यापीठ, कोल्हापूर

२.संचालक,
स्कुल ऑफ इंजिनिअरींग ॲण्ड टेक्नॉलॉजी,
शिवाजी विद्यापीठ, कोल्हापूर

विषय:— राष्ट्रीय शैक्षणिक धोरण — २०२० नुसार एम. टेक अभ्यासक्रमाच्या नियमावलीबाबत.

महोदय,

उपरोक्त संदर्भिय विषयास अनुसरुन आपणास आदेशान्वये कळविण्यात यते की, राष्ट्रीय शैक्षणिक धोरण — २०२० नुसार लागू करण्यात आलेल्या एम.टेक अभ्यासक्रमाच्या नियमावलीस विद्यापीठ अधिकार मंडळांने मंजुरी दिली आहे. सोबत सदर नियमावलीची प्रत जोडली आहे.

सदरची नियमावली विद्यापीठाच्या https://www.unishivaji.ac.in,NEP-2020@suk (Online Syllabus) या संकेस्थळावर उपलब्ध आहे. सदर नियमावली सर्व संबंधितांच्या निदर्शनास आणून पुढील योग्य ती कार्यवाही करण्यात यावी.

कळावे.

आपला विश्वासू,

(डॉ. एस. एम. कुबल)
उपकुलसचिव

प्रत :— माहितीसाठी व पुढील योग्यत्या कार्यवाहीसाठी

प्र. अधिष्ठाता, विज्ञान व तंत्रज्ञान विद्याशाखा	पात्रता विभागास
अध्यक्ष, सर्व अभियांत्रिकी अभ्यास व अस्थायी मंडळ	पीजी प्रवेश विभागास
संचालक, परीक्षा व मुल्यमापन मंडळ	पीजी सेमिनार विभागास
परीक्षक नियुक्ती ए व बी विभागास.	संलग्नता टी. १ व टी. २ विभागास
इतर परिक्षा ४ विभागास.	टाय.क्यु.ए.सी विभाग
संगणक केंद्र / आयटी सेल	

SHIVAJI UNIVERSITY, KOLHAPUR

M. Tech (All Programs)

Rules & Regulations w.e.f. 2025-26

Shivaji University, Kolhapur has been offering post-graduate programs leading to Master's degree in Technology (M. Tech.)

1. Admission

Shivaji University, admissions to all M. Tech programs are conducted in accordance with the rules and regulations prescribed by the All India Council for Technical Education (AICTE), New Delhi and the Directorate of Technical Education (DTE), Mumbai, Government of Maharashtra.

2. Credit system:

Shivaji University follows a semester-based credit system for all M. Tech programs. This system ensures both continuous evaluation and flexibility, enabling students to progress at a pace suited to their individual capabilities, provided minimum academic requirements are met.

Definition of Credit

- 1 Hour of Lecture (L) per week = 1 Credit
- 1 Hour of Tutorial (T) per week = 1 Credit
- 2 Hours of Practical/Laboratory (P) per week = 1 Credit

Key features include:

2.1 Credit-Based Evaluation: A student's academic progress is assessed based on the number of credits earned, which reflects successful completion of courses.

2.2 Grade Point Average (GPA): Based on the credits and grades earned in each course, students' **Semester Grade Point Average (SGPA)** and **Cumulative Grade Point Average (CGPA)** are calculated.

2.3. Eligibility Criteria:

To qualify for the award of a degree, a student must:

- Earn the **minimum required credits** as prescribed for the program.
- Maintain a **minimum CGPA** as defined in the evaluation rules.

3. Features of Credit System

3.1 Credit Allocation:

- Credits are assigned based on the **academic weightage** of each course.
- Most courses are standardized to consist of **six academic units**, with exceptions where necessary.

3.2 Credit Distribution:

- First Year (FY) M. Tech and Second Year (Final Year) : 20 credits per semester
- Total = 80 credits

3.3 Grading System:

- An absolute grading system is followed, with seven passing grades: AA, AB, BB, BC, CC, CD, DD, and FF indicating failure.

3.4. Evaluation Scheme:

- Each course includes both:
    - **In-Semester Evaluation (ISE) – 40% weightage**
    - **End Semester Examination (ESE) – 60% weightage**

Students must secure a minimum of 40% marks in ESE to pass, irrespective of ISE marks.

3.5. ISE Components:

- Conducted at the Course Coordinator end through scheduled tests and assignments etc. as planned by the Course Coordinator.
- Evaluated and declared periodically by the Course Coordinator.

3.6. ESE Components:

- As per University examination rules.
- Includes:
    - Written examination for theory courses
    - Practical/design/drawing/oral exams for lab-based courses
- For MOOC-based courses, the ESE performance may be either based on the one by MOOC-offering institute or it may be from the exams conducted as usual at the University End.

4. CURRICULUM

4.1. Curriculum

Every program with specialization has a prescribed course structure which in general terms is known as Curriculum. It prescribes courses to be studied in each semester, the relevant information containing course structure along with detail syllabus for each course of each program is updated periodically and is uploaded on the website.

Each program is defined by a **specific total credit load**, with a **structured distribution of credits** across various categories such as core, elective, laboratory, project, internship, audit, etc.

4.2. Semesters

Shivaji University implements a credit based curriculum and grade based evaluation system. P.G. program is of four semesters. The academic courses are delivered in the first two semesters and during the period of vacation after second semester, the student has to undergo 8 to 12 weeks industrial training. Dissertation work is carried out by a student in the third and fourth semester. The first semester begins in the second week of July and ends by the last week of November while the second semester begins in the first week of January and ends by the second week of May. Total duration for each semester is generally of 20 weeks including the period of examination, evaluation and grade declaration.

4.3 Academic Bank of Credits (ABC)

- All students shall be mandatorily enrolled in the Academic Bank of Credits (ABC).

4.4. Course Credit

The prominent features of the credit system are a process of continuous evaluation of a student's performance/progress and flexibility to allow a student to progress at an optimum pace suited to his/her ability or convenience, subject to fulfilling minimum requirements for continuation.

A student's performance/progress is measured by the number of credits that he/she has earned, i.e. completed satisfactorily. Based on the course credits and grades obtained by the student, grade point average is calculated. A minimum grade point average is required to be maintained for satisfactory progress and continuation in the program. Also a minimum number of earned credits and a minimum grade point average should be acquired in order to qualify for the degree. All programs are defined by the total credit requirement and a pattern of credit distribution over courses of different categories.

4.5 Course credits assignment

Each course, except a few special courses, has a certain number of credits assigned to it depending upon its lecture, tutorial and laboratory contact hours in a week. This weightage is also indicative of the academic expectation that includes in-class contact and self-study outside of class hours.

Lectures and Tutorials: One lecture or tutorial hour per week per semester is assigned one credit.

Practical/Laboratory: One laboratory hour per week per semester is assigned half credit.

Example: Course: XYZ Technology: 4 credits (3-(0-2)

The credits indicated for this course are computed as follows:

3 hours/week lectures = 3 credits

0 hours/week tutorial - 0 credit

2 hours/week practical=2×0.5-1 credit

(3-0-2) **4** credit course (**3** h Lectures + **0** h Tutorial+**2** h Practical) per week

= **5** contact hours per week

4.6 Earning credits

Each course is assigned a specific number of credits, determined by the weekly contact hours for lectures, tutorials, and practicals /laboratory work. This assignment reflects the **academic effort** required for the course, including both classroom interaction and independent study.

Credit Calculation Guidelines:

- Lecture (L): 1 hour/week = 1 credit
- Tutorial (T): 1 hour/week = 1 credit
- Practical/Laboratory (P): 2 hours/week = 1 credit

5. Evaluation system

5.1. Semester Grade Point Average (SGPA)

$$\frac{\sum (\text{course credits in passed courses X earned grade points})}{\sum (\text{Course credits in registered courses})}$$

5.2. Cumulative Grade Point Average (CGPA) =

$$\frac{\Sigma (\text{course credits in passed courses X earned grade points}) \text{ of all Semesters}}{\sum (\text{Course credits in registered courses}) \text{ of all Semesters}}$$

5.3 At the end of M. Tech Program, student will be placed in any one of the divisions as detailed below :

Ist Division with distinction : CGPA ≥ 7.5 and above

Ist Division : CGPA ≥ 6.0 and < 7.5

IInd Division :CGPA ≥ 5.5 and < 6.0

Conversion of CGPA to percentage marks for CGPA ≥ 4.5 can be obtained using equations.

Percentage marks = (CGPA x 10)

Table 2: Grade Point to Percentage Conversion

Grade Points	Equivalent Range
5.5	55%
6.0	60%
6.5	65%
7.0	70%
7.5	75%

An example of these calculations is given below:

Typical academic performance calculations - I semester

Table 3

Course No.	Course Credits	Grade Awarded	Earned Credits	Grade Points	Points Secured
Col 1	Col 2	Col 3	Col 4	Col 5	Col 6 (col 4 * col 5)
MALXXX	5	CC	5	6	30
CSLXXX	4	CD	4	5	20
PHLXXX	4	AA	4	10	40
PHPXXX	2	BB	2	8	16
MELXXX	4	FF	0	0	0
TTNXXX	2	AB	2	9	18
Total	21		17	38	124

5.3 Semester Grade Point Average (SGPA) =

$$\frac{(124)}{(21)} = 5.90$$

5.4 Cumulative Grade Point Average (CGPA) =

Cumulative points earned in all passed courses 124 (past semesters) + 124 (this sem.) =248

Cumulative earned credits = 23 (past semesters) + 21 (this sem.) = 44

$$\frac{\Sigma (124+124)}{\Sigma (23+21)} = 5.63$$

For the students securing >= 24 out of total 60 marks at End Semester Examination (ESE) with the situation that their final theory marks addition of ESE and ISE is less than 40 out of 100, in such a situation, in order to resolve the issue of result processing, a penalty grade DD # is introduced in the below Table 4.

System of Evaluation: Table 4

Grade	Grade Points	**Marks Obtained (%)**		Description Performance
		Regular Semester	Semester Examination or Re-appear	
AA	10	90 – 100	--	Outstanding
AB	09	80 – 89	90 – 100	Excellent
BB	08	70 – 79	80 – 89	Very Good
BC	07	60 – 69	70 – 79	Good
CC	06	50 – 59	60 – 69	Fair
CD	05	45 – 49	50 – 59	Average
DD	04	40 – 44	40 – 49	Poor
DD$	04	Below 40	Below 40	Poor (Subject to Application of Ordinance 96)
DD #	03	24-39	24-39	Poor (ESE+ISE < 40)
FF	00	Below 24	Below 24	Fail

EE	--	--	--	Incomplete
WW	--	--	--	Withdrawal
XX	--	--	--	Detained
ABSENT	--	--	--	Absent
PP	--	--	--	Passed (Audit Course)
NP	--	--	--	Not Passed (Audit Course)

Note: An equivalent certificate of CGPA to percentage of marks will be provided to student on candidate's demand after remitting prescribed fees by Shivaji University.

6. Detailed Evaluation Scheme:

The evaluation of a student's academic performance in each course shall be based on a composite score out of 100 marks, distributed as follows:

In-Semester Evaluation (ISE): 40 marks

End Semester Examination (ESE): 60 marks

6.1 In-Semester Evaluation (ISE) – 40 Marks

To ensure continuous and comprehensive evaluation, the ISE component of 40 marks is divided into structured sub-parts that vary according to the student's academic level:

Theory Course

Year	Semester	Internal Evaluation	Marks	
			40 Marks	20 Marks
First Year	I & II	1) Seminar / Oral Presentation/ Demonstration	10	5
		2) Case study / Problem solving (Real World) /Simulation / Programming Project	10	5
		3) Book Review / Poster Presentation / Infographics	10	5
		4) Unit Test	10	5
Second Year	III & IV	1) Group Discussion / Debate / Brainstorming	10	5
		2) Research Paper Review / Book review / Poster Presentation	10	5
		3) Open Book Examination / Home Assignment /Class Assignment	10	5
		4) Unit Test	10	5

Practical Course

Year	Semester	Internal Evaluation	Marks	
			25 Marks	50 Marks
First Year	I & II	1) Cognitive Test (Critical Thinking ,Problem Solving)	6	12
		2) Psychometric Test (Numerical Reasoning, Verbal Reasoning)	6	12
		3) Affective Domain Test (Surveys , Interviews)	6	12
		4) Performance in Lab / Lab course oral /Viva Qustionaries Preperation	7	14
Second Year	III & IV	1) Cognitive Test (Critical Thinking ,Problem Solving)	6	12
		2) Psychometric Test (Numerical Reasoning, Verbal Reasoning)	6	12
		3) Affective Domain Test (Surveys , Interviews)	6	12
		4) Add on - (Lab Manual Preparation / Lab Model Preparation / Lab Equipment or Setup Preparation)	7	14

Mid Semester Tests*: For each unit, a test called the Mid-Semester Test will be conducted by the course in-charge immediately after the completion of that unit. The 10 marks allocated under the heading of Mid-Semester Tests will be the average of all these unit tests. These tests will be designed and evaluated by the course in charge.

- The nature and weightage of other components (Seminar, Oral Presentation, Demonstration, Case study, Problem solving (Real World) , Simulation, Programming Project, Book Review, Poster Presentation, Infographics, Group Discussion, Debate, Brainstorming, Research Paper Review, Book review, Poster Presentation, Open Book Examination, Home Assignment, Class Assignment etc.) may be tailored by the course coordinator as per the course requirement and approved academic plan.
- All ISE marks must be declared to the students on an ongoing basis, and records must be maintained transparently by the department.
- For M Tech Second Year laboratory courses are assessed in two parts:
  - Internal Evaluation (IE) – 50% weightage
  - External Evaluation (EE) – 50% weightage
  - To pass, the student must secure a minimum of 40% marks separately in both IE and EE.

6.2. End Semester Examination (ESE) – 60 Marks

- **Duration:** 2 hours

- **Maximum Marks:** 60
- **Minimum Passing Marks:** 24 (i.e., 40% of 60)

ESE Question Paper should ensure alignment with CO-PO attainment, and Bloom's Taxonomy.

Students must pass the **ESE independently** with at least 24 marks, **regardless of ISE performance**, to earn a passing grade in the course.

6.3. Final Course Evaluation

- **Theory Courses**: Final score = ISE (40) + ESE (60) = 100 marks
- **Laboratory Courses**: Final score = Internal Evaluation (IE) 50% + External Evaluation (EE) 50%
    - For Second Year, both IE and EE must be passed individually (Minimum 40% in each).
    - **First Year labs** are assessed solely on IE or EE (100%).

Evaluation of Laboratory Courses

- For Second Year laboratory courses are assessed in **two parts**:
    - Internal Evaluation (IE) – 50% weightage
    - External Evaluation (EE) – 50% weightage
- To pass, the student must secure **a minimum of 40% marks separately in both IE and EE.**

Internal Evaluation (IE) Includes:

- Turn-by-turn supervision of the student's work
- Assessment of lab journal/records
- Periodic oral or practical evaluations
- Uniform distribution of evaluation throughout the semester

Note: Students must complete and submit the lab work and secure at least **40% marks** in IE. Failing to do so results in a **Term Not Granted (TNG)** status.

External Evaluation (EE) Includes:

- Conducted **one week prior** to the theory ESE
- Carried out by a panel including **internal and external examiners**
- Based on:
    - Actual performance of an experiment
    - Oral or written evaluation

Exception for First-Year Laboratory Courses:

- Assessed through **Internal Evaluation or External Evaluation (100%)**
- A **minimum of 40% in IE** is required to pass
- EE is applicable for some courses

Evaluation of Audit (Non-Credit) Courses

- Typically assessed via five assignments of 10 marks each (Total: 50 marks)
- A minimum of 20 marks is required to be considered as Passed (PP)
- Result appears on the mark sheet as either:
    - PP – Passed
    - NP – Not Passed
- Audit course coordinators must communicate final result status (PP/NP) to the Examination Section

A student failed in EE of a laboratory course in a regular semester will be eligible to appear for examination conducted along with ESE of laboratory courses of the subsequent semester. Such examination will be fairly comprehensive (generally of 3 hours similar to EE i.e. External Examinations) to properly judge candidate's practical skill and theoretical knowledge for that laboratory course. The candidate will suffer a grade penalty as per Table 3.

7. CGPA Improvement

An opportunity will be given to a student who has earned all the credits required by the respective program. But the students CGPA is less than 4.5, in such a case, to improve the grade, the student is allowed to appear for next ESE of maximum three theory courses of the respective academic year.

8. Re-appearing

- Student can re-appear in the theory and/or practical's in which he/she has secured FF grade, by the payment of necessary fee and he/she can reappear for end- semester examinations of theory and practical's of first and second semester, which will be conducted at the end of first and second semester, respectively.
- The semester end examination for laboratory of reappearing students shall be conducted with regular student's practical examination. This examination will be of 100% weightage and the weightages shall be 50:50, for the performance of the student in the implementation of the practical assigned and the oral, respectively.

9. Attendance rule

- Attendance in classes for all the subjects is compulsory.
- Relaxation of maximum 25% in attendance is permissible to the students on account of medical problems or any genuine reason.
- Student not having 75% attendance in any course/ practical will not be allowed to appear in the end-term examination of that respective course/ practical and given XX grade. He/she has to reregister for all such courses.

10. Student Status

There are various types of student's status:

- Full-time Student on Teaching Assistantship (GATE)
- Full-time Sponsored Student
- Full-time Self-finance Student

10.1 Full-time Student on Teaching Assistantship

A full-time student should complete the Programme within **24 months**. A Full Time student on Teaching Assistantship will receive the Institute Assistantship for the duration of **four** semesters of the M. Tech. Programme, provided he/she has cleared GATE, Such students are awarded **Teaching** Assistantship on the following condition.

i) They should not accept any other scholarships/ employments/financial assistance/salary etc. awarded through any other sources or shall not hold any appointment, paid or otherwise

ii) They are not sponsored by any organization.

iii) They do not leave the course midway or appear in any competitive examination not related to engineering/technology. They should submit the undertaking in this regard mentioning the refund of scholarship.

The present rate (supported by AICTE (MHRD)) of Teaching Assistantship of Rs. 12400/- per month is payable from the date of registration of the first semester till the date of final assessment of dissertation. However in no case the duration of teaching assistantship will exceed 24 months.

(a) Students getting the assistantship will be required to assist in teaching or research, as assigned by the department, to the extent of 6 to 8 hours per week for conduct of practicals/tutorials/lab courses.

(b) The continuation of the assistantship will be subject to satisfactory performance of the duties assigned by the Department as well as satisfactory academic performance.

(c) All M. Tech. students normally will have to complete the programme in 24 months.

(d) For continuation of full assistantship student need to secure at least 1st Division or equivalent Cumulative Grade Point Average (CGPA).

10.2 Full-time Sponsored Students

Sponsored candidates who are admitted to the programme should have full financial support from the concerned sponsoring agency, namely, the Govt. Department, organization, Industry, etc., for the entire duration of the programme. They can complete programme on time, depending on the nature of sponsorship.

11. Pattern of Courses

The courses offered for the PG Programmes may be Lecture Courses, Laboratory Courses, Seminars and Projects, and Field Visits.

- The credit for a course is mentioned in the courses of study profile of department.
- Students are required to complete all the credit required for the PG programme as approved by the Departmental Committee from time to time.

- **Seminar**

Seminar shall satisfy the following conditions:

i) Each seminar shall carry one credit and treated as a course for purpose of registration and evaluation.

ii) Seminar examiners, at least two examiners including guide, appointed by the Co- ordinator shall organize the Seminars and forward the grades/marks awarded by the panels of examiners to the Director, Board of Examination and Evaluation Office by the end of the Semester.

- **Industrial Training**

i) The period of vacation after second semester, the student has to undergo 8 to 12 weeks Industrial training and as a part of evaluation at the end of third semester student should submit the report for the same and give presentation to the concern guide

ii) Industrial Training examiners appointed by the Co-ordinator. Department should organize the Seminars and oral exam and forward the grades/marks awarded by the panels of examiners to the Director, Board of Examination and Evaluation Office by the end of the Semester.

12. Course Credit Requirements

The total minimum credit requirement for M. Tech. programme is 80 credits including the dissertation as per AICTE norms.

13. Course Assessments and award of grades

13.1 Assessment

For every course taken by the students, he/she is assigned a letter grade on his/her combined performance in all the assessments. These grades are described by the letters and corresponding grade points.

Grade: Assessment of the student's performance in a course indicated by the letters, “AA”, “AB”, “BB”, “BC”, “CC”, “CD”, “DD”, “DD $”, “DD #”, “FF”, “XX”, “ABSENT”, “PP”, “NP”.

Grade Point: Number equivalent of the letter grades given are 10, 9, 8, 7, 6, 5, 4, 4, 3 for the grades as “AA”, “AB”, “BB”, “BC”, “CC”, “CD”, “DD”, “DD $”, “DD #” respectively. While “FF” means zero grade points.

The award of grades based on marks out of 100 weightage shall be made as shown in Table 4.

14. Dissertation

- The student shall be allowed to submit the dissertation phase I report only after the completion of minimum 50% work of the total project with intermediate /partial results of the dissertation project to the concern guide and the dissertation phase II report only after the full-fledge demonstration of his her work to the concerned guide. Assessment of the dissertation shall be based on design & implementation aspects, documentation & presentation skills, utility of the dissertation work & publications based on the same.
  For the dissertation phase I and phase II concern guide should guide to each student minimum for 2 hrs per week till the final submission of the dissertation of the concern student.
- Students are required to submit final hard bound dissertation report to the respective Department with consent of guide for both dissertation phase I &phase II
- The viva-voce will be conducted by the department.

- Final grade/marks reports are to be sent by the panel of examiners to the Director, Board of Examination and Evaluation office on completion of viva-voce.

14.1 Late Submission of Dissertation

The maximum duration to complete M. Tech. Programme is four years. After completion of two academic years from the date of registration, student has to apply for the extension. Whenever, any project stage is not submitted before the last date as specified in the academic calendar, the student is required to:

- Make specific request for extension with justification (without grade restriction) at least 15 days before the last date of submission as specified in the academic calendar.
- Pay the Institute fees and register for the fifth/sixth/seventh/eighth semester for the extension after forth/fifth/sixth/seventh semester, respectively.

14.2 Dissertation Evaluation

- The Dissertation phase I assessment and pre-submission assessment of dissertation PART II, if any, will be done by a panel appointed by the controller of examination office in consultation with the Guide.
- The Dissertation phase II assessment will be done by a Board of Examiners appointed by the Director, Board of Examination and Evaluation office.
- The minimum passing grade in each of the dissertation assessment shall be CD.
- In case a student gets a fail grade in any of the project assessment he/she should carry out additional work/modifications etc. as suggested by the panel and appear for assessment within one month from the date of previous assessment. At this assessment, he/she should not be given a grade higher than BB.
- A full-time/GATE student should not take up any other assignment before submitting his/her dissertation.

14.3 Submission of Dissertation

He/she can be allow to submit his/her Dissertation Report by the end of IV Semester, provided that he/she should earn all the credits of Semester I, II & III respectively after earning all the credits of First Year.

15. Award of Degree

He/she will be awarded the M. Tech. Degree after acquiring 80 credits.

15.1 Performance Requirements

- The performance of a student in a semester is indicated by a number called the Semester Grade Point Average (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses and projects taken by the student during the semester.
- Example: Suppose in a given semester a student has taken five courses having credits C1, C2, C3, C4, CS and his/her grade points in those courses are G1, G2, G3, G4, G5 respectively. Then his/her
- SGPA will be calculated on the basis of the final grades awarded. The SGPA is calculated up to two decimal places.
- An up-to-date assessment from the time the student entered the Institute is obtained by calculating a number called the Cumulative Grade point average (CGPA).
- The CGPA is the weighted average of the grade points obtained in all the courses taken by the student since he/she entered the Institute. It is calculated in the same manner as the SGPA. CGPA for the course credits and the project credits will be separately calculated and shown in the grade card, along with the overall CGPA.
- **For continuation of a student in the Programme the minimum CGPA must be 4.5.**

16. Leave Rules

The students getting teaching assistantship are entitled for a leave in an academic year - maximum of 30 days (including medical leave of 10 days) but they are not entitled for any vacation during summer/winter.

17. Departmental Research Committee

Departmental Research Committee consists of following:

Head of the Department - Chairman

Coordinator of the Programme -Member

Departmental / Programme R & D Coordinator- Member

Senior faculty from respective Department / Programme - Member

Guide/Course Coordinator- Member)

18. Graduate Attributes

1. Scholarship of Knowledge
2. Critical Thinking
3. Problem Solving
4. Research Skills
5. Modern Tool Usage
6. Collaborative Work
7. Project Management
8. Communication
9. Lifelong Learning
10. Ethics and Social Responsibility

Program Outcomes

PO1: Demonstrates in-depth knowledge and understanding of the chosen engineering discipline.

PO2: Analyzes complex engineering problems, evaluates information, and forms well-reasoned conclusions.

PO3: Identifies, formulates, and solves complex engineering problems using appropriate methods and tools.

PO4: Conducts research, analyzes data, and interprets findings to contribute to the advancement of knowledge.

PO5: Effectively utilizes modern engineering tools, software, and technologies.

PO6: Works effectively as a team member and leader in multidisciplinary environments.

PO7: Demonstrates knowledge of project management principles and applies them to engineering projects.

PO8: Effectively communicates technical information both orally and in writing.

PO9: Recognizes the need for continuous learning and professional development.

PO10: Applies ethical principles and understands the societal impact of engineering solutions.