VIMAL JYOTHI
ENGINEERING COLLEGE (AUTONOMOUS)
Jyothi Nagar, Chemperi - 670632, Kannur D.T, Kerala

NAAC

NBA
NATIONAL BOARD
OF ACCREDITATION

Bachelor of Technology (B.Tech.)
Academic Regulations 2024

Version1.0 September 2024

VISION

To bloom into a Center of Excellence for Technical Education and a pace-setter in rural India with its quality processes and procedures, interwoven with freedom of flexibility, moulding professionals of superior quality, dedicated to the progress and development of Humanity.
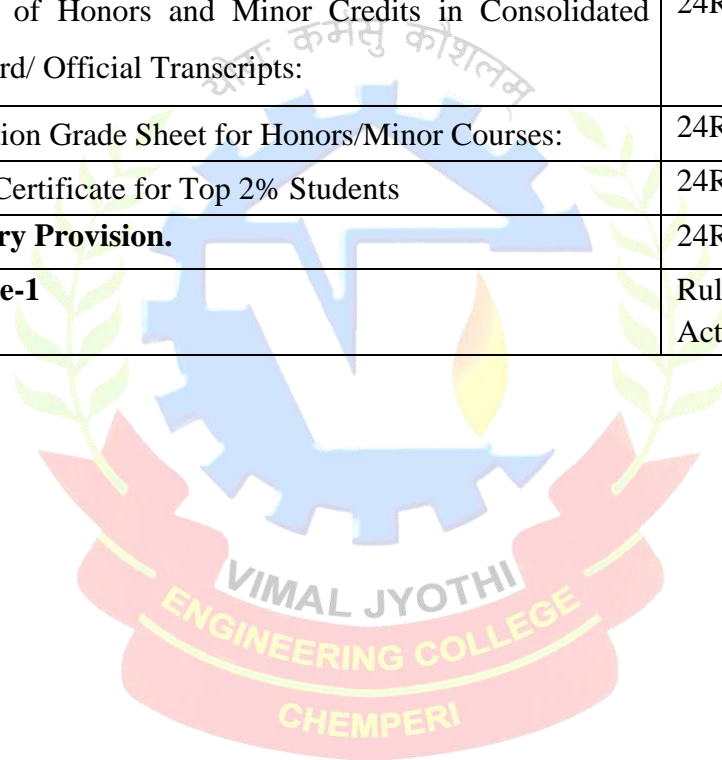
MISSION

To prepare the students to see beyond geographical limit and belong to a new age of acquisition and application of technology to meet the challenges of the changing world. Inspired and guided by gospel values, we contribute to the socioeconomic welfare of the country with due concern to the marginalized.

PREFACE

Vimal Jyothi Engineering College (VJEC) is excited to introduce its new undergraduate curriculum, designed to provide a comprehensive and rigorous education in engineering and technology. This curriculum takes a holistic approach, moving beyond traditional information and knowledge transfer to emphasize essential 21st-century skills such as creativity, complex problem-solving, critical thinking, and emotional intelligence. The program anticipates future challenges in engineering education by integrating considerations of human, material, and environmental factors.

To meet these challenges, the curriculum has been meticulously crafted to equip students with the necessary skills and knowledge to become proficient engineers capable of addressing real-world problems across various domains. Moving away from conventional teaching methods, the courses are structured to emphasize the practical application of knowledge, encouraging creativity, innovation, and the development of entrepreneurial skills.

The concept of Curriculum for Pragmatic Learning (CPL) is integrated into all programs at the Institute to ensure that students gain both theoretical knowledge and practical experience in engineering. This approach provides students with hands-on exposure to the latest technologies and tools used in the industry. To achieve this, the curriculum includes a diverse range of courses, such as project-based courses that focus on hands-on learning and real-world applications, supported by engineering fundamentals and basic science courses with lab components. It also includes core courses, laboratory courses, projects, and seminars, both with and without practical components. These courses are designed with a student-centric approach, offering flexibility for students to customize their learning experiences according to their interests and career goals, ensuring a well-rounded education.

The 2024 curriculum includes an internship opportunity, allowing students to gain industry exposure, apply their theoretical knowledge to real-world engineering challenges, and acquire valuable practical experience. The curriculum also encourages full-time internships during the eighth semester, benefiting both students and employers while enhancing employability prospects. Additionally, the curriculum offers flexibility by allowing students to take MOOC courses equivalent to the Professional Elective and Open Elective Courses of the eighth semester during earlier semesters, providing them with the necessary time and flexibility to pursue internships

The concepts of "minor degree" and "honors degree", introduced by AICTE, are incorporated into the VJEC curriculum, to enhance the employability skills and impart deep knowledge in emerging

areas that are typically not covered in the Undergraduate framework. With this facility, the students can acquire Honors/Minors by earning additional fifteen credits. The choice rests with the learners to undertake the Honors /Minors courses.

In order to promote civic responsibility, foster leadership skills, and deepen students' understanding of social issues, the new curriculum integrates opportunities for students to participate in socially relevant projects. These projects not only allow students to earn activity points towards their credit acquisition, but also instill social and environmental outlook, bringing a positive impact on society. Socially relevant projects impart a different learning experience with a meaningful contribution to the surrounding communities.

In today's fast-paced world, it is essential to develop a deep understanding of life and to raise students' awareness of its various dimensions, including the individual, family, society, and the environment. This involves encouraging self-reflection and fostering a holistic perspective. Equally important is the emphasis on enhancing physical and mental well-being, promoting all-round development, improving social skills, reducing stress, teaching life skills, and laying the foundation for a healthy and balanced lifestyle. The 2024 curriculum addresses these needs by introducing courses such as sports and yoga, along with Universal Human Value programs.

For the award of B. Tech. Degree, a student has to acquire a maximum of 167 learning credits by learning and practicing the various courses prescribed in the curriculum within the stipulated time duration. In addition to the learning credits, students should earn additional 3 credits from activity points by participating in various extracurricular activities such as sports, cultural events, community service, and entrepreneurship. Engaging in these activities shall enable students to enhance their leadership quality, teamwork, and communication abilities with a comprehensive education and global outlook.

The rules and regulations stated herein shall be called the **Vimal Jyothi Engineering College (Autonomous) academic regulations for B. Tech program, 2024**. These regulations as given in this document are applicable to students admitted in B. Tech. programs of Vimal Jyothi Engineering College (Autonomous) from 2024 admission onwards. Curriculum of the programs under this regulation shall be decided by the Academic council of Vimal Jyothi Engineering College (Autonomous).

Definitions-

For the purposes of these Regulations, -

a) 'Academic Calendar' means the official schedule set by the institution, detailing the commencement and conclusion of classes, examinations and events for an academic year.

b) 'Academic Council' means the Academic Council of the institution constituted in accordance with the provisions of the Act.

c) 'Academic Year' means the academic cycle consisting of an Odd semester and an Even semester.

d) 'AICTE' means the All-India Council for Technical Education constituted under the All-India Council for Technical Education Act, 1987.

e) 'BoS' means the Board of Studies constituted by the Institution in accordance with UGC

f) 'B. Tech. Degree Program' means a program leading to the award of a B. Tech. Degree by the University.

g) CGPA' means Cumulative Grade Point Average.

h) 'CIE' means Continuous Internal Evaluation which is assessed for every student for every course during the semester.

i) 'ESE' means the End Semester Examination which is conducted at the End of the Semester for all the courses of that semester as per the curriculum of study for the B-Tech program.

j) ·Grade Card' means the certificate issued to each candidate generally containing course code, course title, grade and grade points along with SGPA of that semester.

k) 'SGPA' means the Semester Grade Point Average.

1. Preamble	
24R1.1	These regulations along with all the amendments thereto are applicable to all B. Tech (Regular) Degree programs conducted in Vimal Jyothi Engineering College (Autonomous), Chemperi affiliated to the APJAKTU from the Academic Year 2024-25 onwards.
24R1.2	The provisions contained in these regulations shall govern the policies and procedures on the admission and registration of students, imparting instructions of course, conduct of the examination, evaluation, certification of student's performance leading to the award of B. Tech Degree(s).
24R1.3	These regulations, as amended from time to time shall be binding on all parties concerned, including the Students, Faculty, Staff, of the College.
24R1.4	Notwithstanding anything contained in this document, the Academic Council of VJEC reserves the right to modify/amend, without notice rules and regulations of B. Tech programs.
24R1.5	In all matters related to the regulations, the decision of the College and its interpretation given by the Academic Council shall be final and binding.
24R1.6	*Nomenclature of the programs:* The College uses the nomenclature for the Degree programs as specified by the Affiliated University, and the Degree Certificates issued by the University to their awardees bear the name of the College as well. Therefore, the nomenclatures and their abbreviations given below, shall continue to be used for the Degree programs offered by VJEC: UG Level: (i) Bachelor of Technology (B. Tech.) (ii) B. Tech. (Honors) (iii) B. Tech. with Minor Specialization (iv) B. Tech. with Honor and Minor
24R1.7	*Credit structure*

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Options for 4-year B. Tech. Program	Total Credits Required to Complete the Program
"B. Tech." in an Engineering Major Discipline.	**170** Credits [167 Academic Credits + 3 credits from student activities]
"B. Tech. with Minor" (Minor in any Discipline, other than the Major Discipline)	**185** Credits [170 Credits (B. Tech.) + 15 Credits for Minor Coursework]
"B. Tech. with Honors" (Specialization within the Major Discipline).	**185** Credits [170 Credits (B. Tech.) + 15 Credits for Honours Coursework]

	"B. Tech. with Honors and Minor"	**200** Credits [170 Credits (B. Tech.) + 15 Credits for Honours Coursework+ 15 Credits for Minor Coursework]

24R1.8	*Grouping of Engineering programs*

Group A- Computer Science	**Group B-Electrical Science**	**Group C - Physical Science**
• Computer Science and Engineering (CS) • Computer Science and Engineering (Cyber Security) (CC) • Computer Science and Design (CN) • Computer Science and Engineering and Business Systems (CU) • Artificial Intelligence and Data Science (AD)	• Electronics and Communication Engineering (EC) • Electrical and Electronics Engineering (EE)	• Civil Engineering (CE) • Mechanical Engineering (ME)

	2. Admission
24R2.1	Admission policy, eligibility for admission and admission procedure shall be decided by the University or the competent statutory authority for admissions from time to time.
24R2.2	If at any time after admission, it is found that a candidate has not fulfilled any of the requirements stipulated by the University or the statutory body concerned, the Principal may revoke the admission of the candidate and report the matter to competent statutory authorities for further action.
24R2.3	No student shall be permitted, under any circumstances, to change the branch/stream to which he/she is admitted by the competent authority for admission after the closure of the admission procedure.
24R2.4	A student admitted to this college shall continue studying in this college till the completion of the course, unless he/she is permitted an inter college transfer as per **24R11**

	3. Structure of B. Tech. program.
24R3.1	The duration of the B. Tech. Program shall be 4 years (8 semesters)
24R3.2	*Additional Grace period:* If a student has backlog courses remaining after the normal course duration of four years, the student will be permitted an additional grace period of two years to complete all courses and credit requirements specified in the curriculum. After this period, the student's registration will be automatically canceled unless an extension is granted by the institution. No separate intimation regarding this cancellation will be sent to the student.

24R3.3	Every academic year shall have two semesters "1st July to 31st December (Odd semester)" and "1st January to 30th June (Even semester)". Each semester shall have a minimum of·90 working days out of which 65 days shall be instructional days. In the event that holidays are declared by the district collector or the state government, the institutions are required to reschedule the lost instructional days within the same semester, including Saturdays, to ensure the timely completion of the syllabus. . The vacation of the faculty and staff shall be as per the Institute policy from time to time.
24R3.4	*Academic calendar:* The dates of major academic activities shall be published in the Academic Calendar. The academic activities in a semester shall normally include the following: · Commencement and completion of the semester · Semester enrolment dates · Course selection and mapping dates · External exam registration dates · Schedule of Internal examinations · Date of publishing of attendance and internal marks · Schedule of End Semester examinations · Dates of Extra/Co-curricular activities. · Submission of Student activity points · Dates of Internal and External academic audit . Internship dates/Vacation dates.
24R3.5	The curriculum and syllabi for each branch of the B. Tech Program must be approved by the Academic Council. The curriculum and syllabi shall typically be updated once in every four years. However, the curriculum and syllabi for each branch of the B. Tech Program at VJEC must receive approval from the Academic Council. Typically, these are subject to a comprehensive update once every four years to ensure relevance and alignment with industry standards. However, to maintain flexibility and responsiveness to emerging trends, innovative elective courses can be incorporated as needed. Such additions require recommendations from the respective Board of Studies and subsequent approval from the Academic Council. In recognition of the dynamic nature of technology and evolving industry requirements, the college allows for modifications to individual course syllabi within the approved curriculum. These changes can be implemented to address technological advancements or emerging needs in the field. It's important to note that while such updates are encouraged to keep the curriculum current, modifications to core courses are limited to a maximum of 20% of the course content. This limitation ensures the preservation of fundamental

	concepts while allowing for necessary updates. All revisions to the curriculum and syllabi, whether major updates or minor modifications, must be based solely on the recommendations of the concerned Board of Studies. This requirement ensures that changes are thoughtfully considered by subject matter experts and align with the overall educational objectives of the program.
24R3.6	*Course Credit*: The academic programs of the Institute follow the credit system. The general pattern is as below:

Classification	Credit assigned
1 Hour Lecture (L) per week	1 Credit
1 Hour Tutorial (T) per week	1 Credit
1 Project Hour (R) included in Project-Based Learning (PBL) per week	1 Credit
2 Hours Practical (P) per week	1 Credit
3 to 4 Hours of Seminar (S)/Practical (P)/Project (R) per week	2 Credit

The workload of a faculty member shall be the actual number of hours engaged by the faculty member. |
| 24R3.6.1 | The curriculum of any branch of the B. Tech. Program shall have a total of 167 academic/ learning credits and 3 additional activity point-based credits. |
| 24R3.7 | *Courses classification and Credits*
Every course of B. Tech. Program shall be placed in one of the eleven categories based on the nature of the course and is listed in the table below:

Sl. No	Category	Code	Credits
1	Humanities and Social Sciences including Management Courses	HMC	9
2	Basic Science Courses	BSC	20
3	Engineering Science Courses	ESC	29
4	Program (Professional) Core Courses	PCC	52
5	Program (Professional) Core Courses-Project Based Learning	PBL	16
6	Program Elective Courses	PEC	18
7	Open Elective Courses/Industry Elective Courses	OEC/ IEC	9

8	Mini Project, Project Work/Internship and Seminar	PWS	12
9	Health and Wellness	HWP	1
10	Skill Enhancement Courses	SEC	1
11	Mandatory Student Activities	MSA	3
	Total Mandatory Credits		**170**
12	Honors/Minor	H/M	15

B. Tech Semester Wise Credit Structure

Semester	S1	S2	S3	S4	S5	S6	S7	S8	Total
Credit	20	24	25	24	23	23	17	11	167
Credit for Activity point				3					3
Grand Total									170

Category wise credit structure

Sl No	Category	S1	S2	S3	S4	S5	S6	S7	S8	Total
1	HMC	0	1	2	2	1	0	2	1	9
2	BSC	7	7	3	3	0	0	0	0	20
3	ESC	12	11	4	0	0	2	0	0	29
4	PCC	0	4	12	12	15	9	0	0	52
5	PBL	0	0	4	4	4	4	0	0	16
6	PEC	0	0	0	3	3	3	6	3	18
7	OEC	0	0	0	0	0	3	3	3	9
8	PWS	0	0	0	0	0	2	6	4	12
9	HWP/SEC	1	1	0	0	0	0	0	0	2
	Total credit/semester	20	24	25	24	23	23	17	11	167

10 to 15 % deviation in credits is permitted under each discipline. While developing the curriculum, the department offering the program should ensure that the above distribution shall be attained by the students upon their completion of their program. Either Minor or Honors can be opted from the optional specialization.

24R3.7.1	*Universal Core (UC)*: Universal courses are a mandatory set of courses for all B. Tech. students, encompassing foundational courses in Humanities, Skilling, and Computer Science. These courses are designed to provide a broad-based education and essential skills that are fundamental to the overall development of engineering students.
24R3.7.2	*Universal Elective (UE):* Universal Elective courses are elective courses chosen from a basket of courses offerings in the Humanities and Social Sciences. These courses allow students to explore areas of interest beyond their core technical education, enriching their overall academic experience.
24R3.7.3	*Humanities and Social Sciences including Management Courses(HMC)* : courses offered in the first year and eighth semester of the B. Tech. curriculum shall be awarded a single credit, irrespective of the number of hours allotted per week.

24R3.7.4	***Professional Core (PCC):*** Courses listed under Program Core of a curriculum are program specific. Students have to complete all the courses listed under PCC to become eligible for the degree
24R3.7.5	***Project Based Course (PBC):*** PBC aims at developing a deeper knowledge through active exploration of real-world challenges and problems by applying theoretical knowledge. It consists of three components: Theory, Practical and Project. Project is a group-based activity with a maximum of five members in a group, where each group has to identify suitable application-based problem based on the topics covered/advanced concepts of topics in the theoretical part of the course. Curriculum of each program has three project-based courses. Only one PBC can be included in a semester and it should be within the 3rd to 6th semesters.

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PBC Course Elements

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L: Lecture (3 Hrs.)	R: Project (1 Hr.), one faculty member for every twenty students		
	Tutorial	**Practical**	**Presentation**
Lecture delivery	Project identification	Simulation/ Laboratory Work/ Workshops	Presentation (Progress and Final Presentations)
Group Discussion	Project Analysis	Data Collection	Evaluation
Question answer Sessions/ Brainstorming Sessions	Analytical thinking and self-learning	Testing	Project Milestone Reviews, Feedback, Project reformation (If required)
Guest Speakers (Industry Experts)	Case Study/ Field Survey Report	Prototyping	Poster Presentation/ Video Presentation: Students present their results in a 2 to 5 minutes video

24R3.7.6	***Professional Elective (PEC):*** PEC refers to a set of courses which are more advanced or applied or specialized sub-area than the basic courses a student studies as part of program core courses. A minimum enrolment of 15 students is required to offer a professional elective course. However, this requirement does not apply if the total number of students admitted to the program is less than 15.

24R3.7.7	***Open Elective course (OEC):*** OEC refers to the course that the student shall mandatorily opt from the departments other than the one he/she pursuing the undergraduate studies. This is intended to encourage cross and multidisciplinary learning. The minimum number of students strength for offering an Open Elective course shall be 15. Students are prohibited from registering for OE courses if there is more than a 30% overlap in syllabus content with the courses they are pursuing/completed in their Major, Honors, or Minor programs.
24R3.7.7.1	6 credits of PEC and OEC in the 8th semester can be earned in earlier semesters through MOOCs recommended by the Board of Studies and approved by the Academic Council and satisfying clause 24R3.11. The candidate shall produce the certification issued by the MOOCs conducting agency in proof of credit attainment before the commencement of the ESE of the 8th semester.
24R3.7.8	***Industry Elective Courses (IEC):*** An industry elective course in a B. Tech curriculum is a specific course within the program that is designed to provide students with practical knowledge and skills that are directly relevant to the needs and demands of the industry or the specific field of engineering they are studying. These electives are offered in collaboration with or input from industry experts and organizations / industrial partners. These electives are designed to bridge the gap between academic knowledge and real-world industrial applications. Students may have the option to choose from a range of industry-linked electives, allowing them to tailor their education to their specific interests and career goals. PEC or OEC can be industry oriented and may incorporate modules which shall be designed and handled by experts from industry. Students are prohibited from registering for OE courses if there is more than a 30% overlap in syllabus content with the courses they are pursuing/completed in their Major, Honors, or Minor programs.
24R3.7.9	Students are not permitted to change the PEC and OEC/IEC courses chosen in a semester after completing the course registration
24R3.7.9.1	***Program Elective (PEC) Course Change for Students with FE Status:*** Students who have been assigned an FE grade in a Program Elective course are eligible to request a course change if their originally registered elective is no longer offered to the junior batch at the college. Options for the Student**:** i. Alternate Elective Course: The student may choose to register for an alternate elective course that is available and offered to the current batch. Continuation of Previously Registered Elective: The student may opt to continue with the previously registered elective course, even if it is not offered to the current batch. In such cases, the college shall make the necessary arrangements to enable the student to complete the course. The student must secure clear approval from the competent authority for change of elective course

24R3.7.9.2	***Elective Course Change After the Normal Program Duration:***
	Students who have not successfully completed an elective course within the normal program duration of eight semesters shall be permitted to change their elective course. In such cases, students can register for an alternative elective within the same elective basket, provided the college is willing to offer that course.
	The student must secure clear approval from the competent authority for change of elective course
24R3.7.10	***Skill Enhancement Courses (SEC):*** SEC are designed to equip students with additional tools, techniques, and expertise that complement their core engineering curriculum. These courses aim to enhance the overall skill set of students, making them better prepared to meet the evolving demands of the professional world
24R3.7.11	***Mini Project***: It is included in curriculum to achieve practical application of knowledge and skills learned from academics. It will be a group activity with a maximum of five members in a group, where each group has to identify suitable topics in their domain. The progress of the mini project is evaluated based on three reviews, two interim reviews and a final review (as per the corresponding syllabus). A report is required at the end of the semester.
24R3.7.12	***Project:*** The research-based project in the seventh semester shall be continued as the project in the eighth semester
24R3.7.12.1	The progress of the project is evaluated based on three reviews, two interim reviews and a final review (as per the corresponding syllabus). A report is required at the end of the semester.
24R3.7.12.2	All students doing a project in the eighth semester, shall prepare a Poster as part of their project highlighting their work. The poster carries 5% weightage of the total marks of the project course and to be prepared based on the guidelines issued time to time.
24R3.7.13	***Internship:*** Internships are a crucial component of engineering education, bridging the gap between theoretical knowledge and practical application. They offer students invaluable exposure to real-world engineering practices, professional work environments, and industry standards. The primary objectives of incorporating internships into the B. Tech curriculum at VJEC are to: i. Provide hands-on experience in the engineering field. ii. Develop professional skills and competencies. iii. Enhance employability by aligning academic learning with industry requirements. iv. Foster networking opportunities with industry professionals. v. Encourage practical application of theoretical concepts learned in the classroom.
24R3.7.13.1.1	Guidelines for offering Long-Term Internship i. The students can take the internship either in 7th or in 8th semester. ii. Under no circumstances, internships can be done within the institute. iii. Students are eligible to pursue internships upon the completion of their Sixth

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	Semester End Semester Examination (ESE).
	iv. Duration of Long-Term Internship: The internship period for the Long-Term Internship should last a minimum of 4 months but not exceed six months (4 to 6 months).
	v. There should be no pending disciplinary action and should have cleared all the courses up to the 5th semester.
	The industry internship included in the curriculum will give students the opportunity to apply their theoretical knowledge to practical situations and gain valuable experience. The students can opt for Self-Study or Online Classes or MOOC courses corresponding to Professional Elective, Open Elective and HMC Courses during their 7th/8th semester, which will give them flexibility in doing internships or follow self-study mode to meet the credit requirements the courses of in the eighth semester course works mentioned in curriculum. In such cases, the statement of attendance from the organization where the student pursued his/her internship will be treated as attendance requirements for internal assessment and end semester examinations. If the student is permitted to follow self-study mode, he/she is liable to meet all the requirements such as attending internal exams and submitting the assignments and other works given by the course tutor in time.
	Every student shall be assigned an internship Supervisor/Guide at the beginning of the internship by the senior faculty advisor in consultation with HoD. Students should contact his /her Guide/Supervisor from college on a weekly basis to communicate the progress and each student has to maintain a diary/log book in this regard. After completion of internship, students are required to submit the following at college level, ● Report of work done ● Internship certificate copy ● Feedback from employer / internship mentor ● Stipend proof (in case of paid internship) Students opted for internship in the eighth semester and had to attend the interim and final project evaluation, by submitting the internship report. Internal internship supervisor shall be a member of project evaluation committee along with other project evaluation committee members, it is desirable that external supervisor from industry also shall be a member of evaluation committee of such students along with other project evaluation committee members.
24R3.7.13.2	Guidelines for offering Short-Term Internship i. Students are allowed to pursue internships after the completion of their Fourth Semester End Semester Examination. ii. Duration of Short-Term Internship: The period of the Internship shall be at least 2 weeks but not exceeding 4 weeks (2 to 4 weeks). iii. There should be no pending disciplinary action. iv. Under no circumstances, internships can be done within the institute.
24R3.7.13.3	*Option for 1 Year Internship*: This policy allows students to opt for a one-year internship during their final year, provided they meet specific eligibility criteria and adhere to the Institute's long term internship guidelines. *Eligibility Criteria*: Students who have successfully completed all theory courses listed in the seventh and eighth semesters of their Program curriculum through MOOCs are eligible to apply for a one- year internship.

	Eligible students must only have Seminar in Semester7· and Project/Internship in Semester 7 and 8 pending. *Internship Approval*: Students meeting the above eligibility criteria may join a one-year internship, provided they also satisfy all other eligibility requirements outlined in the Long-Term Internship Guidelines.

24R3.7.14	*ECTS and Self Study Hours:* The European Credit Transfer and Accumulation System (ECTS) is a standard adopted by higher education institutions in Europe to facilitate the recognition of academic qualifications and periods of study. ECTS plays a crucial role in promoting academic mobility and ensuring that students' educational achievements are universally acknowledged. 1 ECTS credit point lies between 25 to 30 hours
	Self-Study (SS) Hours: In the context of an engineering curriculum, self-study hours refer to the amount of time students are expected to spend on independent learning activities outside of scheduled classroom instruction. These activities are essential for deepening understanding, reinforcing concepts learned in class, and developing critical thinking and problem-solving skills. Self-study hours are an integral part of the total workload for each course and contribute to achieving the learning outcomes.
	1. Formula For Calculating Total Study Hours:
	    Total Study Hours = (Number of hours/week) x (Number of weeks/semester)
	    Number of hours/week = (L+T+P) hours/week + (Self Study hours) /week
	2. Formula For Calculating Self Study (SS) Hours:
	    o SS Hours=1.5L+0.5 T+0.5P+R
	    o L-T-P-R: Lecture-Tutorial-Practical-Project
	3. Formula for calculating ECTS
	    The number of weeks per semester =15.
	    Let 1 ECTS= 25 study Hours
	    Total ECTS = Total Study hours / 25

24R3.8	*Credit per semester* shall not be less than 15 or greater than 25 and cumulative credits shall not be less than 167.
24R3.9	*Medium of Instruction*: The medium of instruction shall be English. All examinations, project/seminar reports, and presentations shall be in English.
24R3.10	Activity Points: 1. The activity points can be obtained by undertaking activities from the different categories. All students must earn at least 120 activity points from various activity segments listed in Annexure-I to qualify for the B. Tech degree. Three credits are given for this on a pass/ fail basis and is mandatory for getting the B. Tech Degree. As no grade is given for these three credits, it has not been included in the CGPA calculation. 2. B. Tech. lateral entry students are required to acquire a minimum of 90 activity points, with at least 30 points earned from each designated group, to obtain the 3 activity credits mandated by the curriculum. 3. Students are required to maintain a file containing documentary proof of the 4. activities they have participated in, attested by the Senior Faculty Advisor or Faculty Advisor.

24R3.11	***MOOC:*** The MOOCs shall be considered only if it is conducted by the agencies like AICTE/NPTEL/SWAYAM or NITTTR and it should have a proctored/offline end semester examination.
24R3.11.1	The MOOCs shall have a minimum duration of 8/12 weeks and the content of the syllabus shall be enough for at least 36/48 hours of teaching for a 3 or 4/5 credit course respectively. The students can undergo MOOC as a replacement of the course sixth semester, but the list of MOOC and corresponding Course has to be approved by the Academic Council.
24R3.11.2	The students can undergo the MOOCs at their convenience, but shall complete it before the registration of the end semester examination of 8th semester. However, for course replacement MOOC, students shall complete it before the registration for the corresponding semester.
24R3.11.3	The list of MOOCs for Minor/Honors/Eighth semester PEC's & OEC's shall be recommended by the respective BoS and to be approved by the Academic council.
24R3.11.4	The MOOCs corresponding to eighth semester PEC/OEC shall be approved for earning credit, if it has at least 70% of the course contents that match with the syllabus of the course for which it is opted and its contents shall not have more than 40% of overlap with any of the core/elective courses in the concerned discipline or with any of the open elective the student has opted during the B. Tech program. The MOOCs corresponding to Minor/Honors shall be approved for earning credit, if it has at least 70% of the course contents that match with the syllabus of the course for which it is opted or an advanced topic in the respective domain of Honors/Minor and its contents shall not have more than 40% of overlap with any of the core/elective courses in the concerned discipline or with any of the open elective the student has opted.
24R3.11.5	The Institution shall award the credit weightage mentioned in the curriculum of the program for students on successful completion of the MOOCs for purpose mentioned in the **24R3.11.3.**
24R3.11.6	If the student passes the MOOCs corresponding to Honors or the 8th semester PEC and OEC, the percentage obtained in the MOOC shall be adopted and the grade shall be decided based on **24R8.7** and **24R8.7.1**
24R3.11.7	The Curriculum shall include multiple course baskets for Honor/Minor and multiple course lists for PEC/OEC under each department. The department shall have the right to decide the course basket/course from the list to be floated in a given academic year and shall be informed the students accordingly.
4. Course Registration and Enrollment
24R4.1	Except for the first semester, registration and enrollment shall be done at the beginning of the semester as per the schedule and procedure announced by the Institution.

24R4.2	A student shall be eligible for enrolment only if he/she completely satisfies the minimum requirement to continue the program given below.
	     i) he/she has cleared all the dues in the Institute, hostel & library up to the end of the previous semester
	     ii) he/she is not debarred from enrolment by a disciplinary action of the Institute

24R4.2.1	***Mandatory Course and Examination Registration:***

	i. All students are required to register for the prescribed credits in each regular semester unless they are on authorized leave from the institute.
	ii. Course Registration and Exam Registration, as per the prescribed dates announced in the Academic Calendar, are mandatory for every student.
	iii. A student who fails to complete both Course Registration and Exam Registration for all the courses listed in the curriculum for a given semester will not be eligible to enroll in the next higher semester.
24R4.3	Students shall complete formalities like giving feedback for the courses registered in the previous semester, if any, as notified by the Institution before the semester enrolment
5. Structure of a Course and Coding Pattern	
24R5.1	The entire syllabus should be divided into four modules, with description of the topics in each module, that can be covered in 12/24/36/48/60 hours for 1/2/3/4/5 credits respectively in a semester.
24R5.2	The syllabus of each course shall have a course code, course title, course delivery modes (L-T-P-R), Self-study hours (S), and credits assigned to that course (C) as per **24R3.5** along with the preamble of the course, prerequisites, course objectives, expected course outcomes, Course Outcome - program Outcome mapping, lesson plan with expected duration needed to cover the syllabus, suggested text books, reference books, assessment pattern and question paper pattern.
23R5.3	The Syllabus of each course shall be recommended by the BoS of the respective department and approved by the Academic council. Any subsequent modifications shall be approved by Academic council subsequent to the recommendation of the respective BoS.
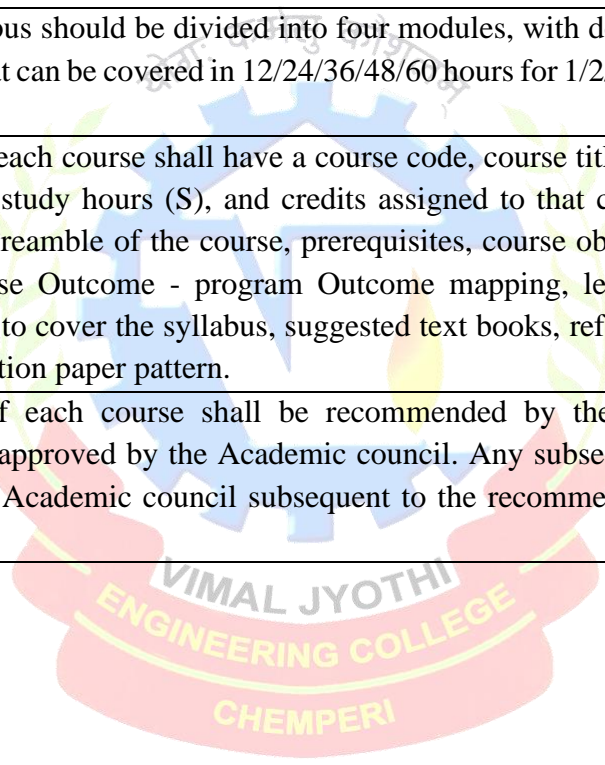
24R5.4	*Coding Pattern*: Each course will be identified by a unique Course Code consisting of eight alphanumeric characters and is represented as YYXXCSNN, which can be interpreted as: **YY -**Course Category, **XX** – Branch/Dept code, **C-** Nature of the Course, **S** – Semester Number (it can have a number from 1 to 8) NN- Course Sequence Number/Identification number

For eg: **PCCET303**- is a theory course offered by the civil engineering department in the third semester under Program Core type.

PCMEL408 - is a laboratory course offered by the mechanical engineering department in the fourth semester under Program Core type.

PBECT504 - is a theory course offered by the electronics and communication engineering department in the fifth semester under Project Based Core type.

PCCSS705 – is a Seminar course offered by CSE department in seventh semester under Program Core type.

GCEST103 – is a theory course offered under Engineering Science category in first semester under group core type C

GAESL208- is a laboratory course offered under Engineering Science category in Second semester un group core type A

Course Category	Branch/Dept Code	Nature of the Course	Semester Number	Identification Number
YY	XX	C	S	NN
UC,UE GA, GB, GC, GX, GY PC,PB PE, OE/IE HN MN	HU, HW MA,PH,CY ES, BS AD,CU,CC, CN,CE,CS, EC,EE,ME	T-Theory L- Lab S-Seminar P-Project J-Project Phase 2 I-Internship M-MOOC	1 to 8	01,02,03……

- T- Theory based courses (Other than the lecture hours, these courses can have tutorial, practical and project hours, e.g. L-T-P-R structures 3-1-0-0, 3-0-0-1, 3-0-0-0,2-0-2-0 etc.
- GX - Group Core courses Common to Group A and Group B
- GY - Group Core courses Common to Group B and Group C

6. Academic Monitoring and Student Support.

24R6.1	*Course Team:* A Course Team comprises faculty members assigned to teach the same course/same class during a given semester. The principal shall designate a senior faculty member/SFA within the team as the Course Leader.

	Prior to the commencement of each semester, the Course Team shall convene to:
	i. Finalize the comprehensive lesson plan
	ii. Develop and update the question bank
	iii. Prepare and review teaching-learning materials
	iv. Design appropriate assessment tools and methodologies
	The Course Leader shall issue clear guidelines and instructions to the Course Team, ensure uniform delivery of course content across all sections, monitor and facilitate timely completion of the prescribed syllabus, coordinate regular meetings to address any challenges or improvements needed, and act as a liaison between the Course Team and the department administration.
	At the end of each semester, the Course Team shall:
	i. Analyze student performance and feedback
	ii. Document best practices and areas for improvement
	iii. Propose updates to course content or teaching methodologies for the subsequent semester
	A course team meeting of each class, at the end of each semester to present and finalize the internal marks and APC.
24R6.2	There shall be one senior faculty advisor (SFA) for a batch in the department and a faculty advisor (FA) to a maximum of 35 students. The Principal shall assign a regular faculty member with minimum of three year of experience as the SFA as recommended by HoD. Faculty members with less than three years of experience may be appointed as SFA only if more experienced faculty members are not available within the department. If there are insufficient faculty members to serve as Faculty Advisors (FAs), faculty from Applied Science and Humanities department may also be considered for these positions to ensure adequate support and guidance for students.
24R6.2.1	The documents regarding all academic and nonacademic matters of students under an advisory group shall be kept under the custody of Faculty Advisor/Senior Faculty Advisor.
24R6.2.2	All requests/applications from a student or parent to higher offices are to be forwarded/recommended by his/her Faculty Advisor/Senior Faculty Advisor. Students and parents shall first approach their Faculty Advisor/ Senior Faculty Advisor for all kinds of advice, clarifications and permissions on academic matters. It is the official responsibility of the institution to provide the required guidance, clarifications and advice to the students and parents strictly based on the prevailing academic regulations.

24R6.3	The SFA shall arrange separate or combined meetings with advisors; course faculty, Parents and students as and when required and discuss the academic progress of students under their advisory group. The Senior Faculty Advisor/ Faculty Advisor shall also offer guidance and help to solve the issues on academic and non-academic matters including personal issues of the students in their advisory group.
	Class Committee and Class PTA Meetings
	Class Committee Formation: For every class, a class committee shall be constituted by the Head of department, as given below:
	1. Chairperson: Senior Faculty Advisor
	2. Faculty Members- A senior faculty member from another department who is generally not teaching that particular class, along with the Faculty Advisors.
	3. Student members: A minimum of nine student representatives from all genders and academic performance level.
	Class Committee Meetings: The class committee shall convene at least twice during the semester to:
	1. Interact and express opinions and suggestions to improve the effectiveness of the teaching-learning process.
	2. Analyze the performance of the students in assessments and discuss ways to address any problems.
	3. Discuss other problems faced by the students in classrooms, laboratories, and within the college.
	The first meeting shall be held within two weeks from the date of commencement of the semester.
	The second meeting shall be held after the announcement of first internal examination results.
	The internal marks, activity points earned during the semester and eligibility of attendance shall be uploaded in the academic management system of the college. Any concerns regarding attendance, internal marks and activity points shall be raised by the students within 7 days of publishing it in the student portal. The Principal/ HoD shall ensure the proper redressal of the concerns raised by the students regarding internal assessment and attendance. The FA/SFA shall be the custodian of the minutes and action taken reports of the advisory meetings.
	Class PTA Meetings:
	Each class shall conduct a Parent-Teacher Association (PTA) meeting at least once per semester. In situations where physical meetings are not possible, class PTA meetings may also be conducted in online mode.
	The PTA meeting should be scheduled after the first internal examination results are announced, allowing for a comprehensive discussion of students' academic progress,

	attendance and addressing any academic or non-academic issues faced by students. The meeting shall include the following participants:
	1. HOD, SFA, FAs and Faculty Members
	2. Parents/Guardians of the students
	Any actionable items or concerns raised during the PTA meeting should be addressed promptly by the concerned faculty, HoD, or college administration.
24R6.3.1	The SFA shall get the minutes and action taken reports of advisory meetings approved by the Head of Department and the Principal. It shall be the duty of the HoD and the Principal to produce it before the statutory body as and when required.
24R6.3.2	The FA/SFA shall keep a hard copy of the consolidated statement of attendance, activity points and internal marks of the students in their advisory group. It shall be kept with the HoD without fail for all sorts of inspections.
24R6.3.3	Regular communication with the parents of students in respect of progress in academic matters and other general issues shall be the responsibility of the Senior Faculty Advisor/ Faculty Advisor.
24R6.3.4	The principal shall inform/forward all regulations, guidelines, communications, announcements etc. issued by the statutory body/University regarding student academic and other matters to the HoDs/ Senior Faculty Advisors for information and timely action.
24R6.3.5	It shall be the official responsibility of the principal to arrange necessary orientation programs to the HoDs, SFAs and FAs regarding student counseling, the prevailing UGC/AICTE/University norms, regulations, guidelines and procedures on all academic and other matters

24R6.4	*Course Faculty:*
	
	 Major Responsibilities:
	
	   i. Compliance with Regulations: The course faculty shall adhere to all regulations and syllabus requirements related to the teaching of the course and the evaluation of students.
	
	   ii. Record Maintenance: The course Faculty is responsible for maintaining all relevant records for the course, including answer books, attendance, and other essential documents for the students enrolled in the course.
	
	   iii. Conduct of Classes: The faculty shall conduct classes according to the college Academic Calendar and the teaching/learning timetable issued by the Head of the Institution.
	
	   iv. Course and Evaluation Plan Distribution: The course faculty shall provide a course plan and evaluation plan, including course objectives and background materials, to all students within the first week of the semester.
	
	   v. Assessment Plan Preparation: The faculty shall develop a detailed assessment plan indicating the dates of submission of assignments in consultation with the course team to avoid overlapping.

	vi. Documentation and Communication of Performance: The course faculty is responsible for documenting student performance and ensuring timely communication of results to students, including posting results on notice boards as stipulated by the University's regulations. vii. Reporting to HOD: The faculty shall report monthly to the HOD on case of low academic performance or low attendance, which may result in a 'FE' grade at the end of the semester.

7. Academic Auditing

24R7	There shall be academic auditing in each department at stipulated intervals. The academic auditing shall be conducted by an Internal Quality Assurance Cell (IQAC) within the college in association with the Department Quality Assurance Cell (DQAC) of each department. The Internal Quality Assurance Cell (IQAC) shall oversee and monitor all the academic activities including all internal evaluations and examinations. The IQAC shall prepare academic audit statements for each semester at regular intervals. These reports shall be presented to the principal for the consideration of the statutory bodies concerned. Academic audit shall preferably be convened: 1. Immediately after the first internal evaluation test. 2. Immediately after announcing the result of ESE. Academic auditing shall cover: - 1. Course delivery and adherence to the course plan, syllabus coverage, quality of question papers used for internal examinations, internal evaluation, ESE evaluation, maintenance of laboratory experimental setups and equipment, practical assignments, mini projects and conduct of practical classes and their evaluation. 2. Co-curricular and Extra-curricular activities available for students, the monitoring mechanism of activity points to be earned by the students. 3. Academic functioning of the college encompassing students, faculty and college administration covering punctuality, attendance, discipline, academic, environment, learning ecosystem, academic accountability, academic achievements and benchmarking. The audit shall also cover the quality criteria prescribed by NBA/NAAC.

8.Assessment

24R8.1	The learning level of a student is assessed and evaluated in-house by the course facilitating faculty member/ department except in the case of project work where an external examiner shall be nominated to conduct the project presentation. The students in each semester shall be evaluated by Continuous Internal Assessment (CIA) and End Semester Examinations (ESE) or by Continuous Internal Assessment (CIA) alone based on the credit as prescribed in the curriculum.

24R8.2	**CIA mark distribution**:
	The Continuous Internal Assessment (CIA) is an integral part of the evaluation process at Vimal Jyothi Engineering College. It is designed to assess students' progress throughout the duration of a course, providing a comprehensive evaluation of their knowledge, understanding, skills, and application abilities.
	Assessment Methodology
	1. The CIA is conducted on a continuous basis throughout the semester by the faculty member facilitating the course.
	2. A diverse range of assessment tools are employed to evaluate various aspects of student learning, including but not limited to: a) Periodic tests b) Assignments c) Presentations d) Surprise tests / Biweekly tests e) Seminars f) Multiple choice quizzes g) Field visits h) Case studies i) Group activities j) Debates k) Conference papers
	3. The course leader or faculty member may devise additional suitable assessment tools as deemed appropriate for the specific course requirements.
	Centralized Internal Assessment Tests
	1. The Examination Section shall conduct a minimum of three (3) centralized Internal Assessment (IA) tests per semester for all courses.
	2. These IA tests are designed to evaluate students from multiple perspectives: a) Knowledge b) Understanding c) Skill d) Application e) Higher Order Thinking Skills
	Evaluation Criteria
	The CIA aims to provide a holistic assessment of student performance, focusing on:
	1. Theoretical knowledge and conceptual clarity
	2. Practical application of learned concepts
	3. Analytical and problem-solving skills
	4. Communication and presentation abilities
	5. Teamwork and collaborative skills (where applicable)
	6. Research and self-learning capabilities
	Weightage and Reporting
	1. The weightage for various components of the CIA shall be determined by the respective department or as per the syllabus guidelines.
	2. Faculty members are required to maintain detailed records of all assessments conducted throughout the semester.
	3. The final CIA marks shall be submitted to the Examination Section as per the prescribed schedule.
	Transparency and Feedback
	1. Students shall be provided with regular feedback on their performance in the CIA components.
	2. The evaluation process shall be transparent, with students having the right to review their assessed work and seek clarification if required.

	This CIA mark distribution system is designed to ensure a comprehensive and fair evaluation of student performance, promoting continuous learning and skill development throughout the academic semester.
	<table><tr><th colspan="3">IA - syllabus and marks distribution for a typical theory course</th></tr><tr><td>IA</td><td>Modules</td><td>Mark</td></tr><tr><td>IA- 1</td><td>Module – 1</td><td>5</td></tr><tr><td>IA- 2</td><td>Module – 2 & 3</td><td>10</td></tr><tr><td>IA- 3</td><td>Module – 4</td><td>5</td></tr></table>
	For a Laboratory/Practical course; due weightage for carrying out experiments, such as observations, collection of data, analysis, interpretation of results, inferences and also timely submission of record work done would all carry due weightage based on the type of laboratories and the course.
23R8.2.1	The CIA marks for individual courses shall be computed by giving weightage given in the respective syllabus. The CIA marks for the attendance for each theory, practical and drawing shall be awarded in full, only if the candidate has secured 85% attendance or above in the course. If a student has attendance for a course below 85%, reduction in the marks for the attendance shall be made proportionally. The CIA marks obtained by the student for all courses in a semester are to be published at least 5 days before the commencement of the ESE. Retest shall be permitted to the students who could not appear for the internal tests due to genuine extenuating circumstances. Based on the course category the number of assignments that shall be given for each course may vary. Proportional Reduction for Lower Attendance: If a student has attendance below 85% in a course, a proportional reduction in the attendance marks shall be applied as follows: 1. Above 80% but less than 85% Attendance: 4 Marks 2. Above 75% but less than 80% Attendance: 3 Marks 3. Above 70% but less than 75% Attendance: 2 Marks 4. Above 60% but less than 70% Attendance: 1 Marks 5. Below 60% Attendance: 0 Marks

| 24R8.3 | ***End semester Examination Patterns:*** The end-semester final examination shall have learning assessments from the following perspectives with respect to all courses:

● Evaluation with respect to knowledge
● Evaluation with respect to Understanding
● Evaluation with respect to Applications

Based on the total marks of the ESE, separate evaluation patterns shall be followed based on the respective syllabus approved by the Academic Council. |

24R8.4	Students, who have completed a course but could not write the end semester examination, shall be awarded "I' Grade, provided they meet other eligibility criteria **24R8.5**. They shall register (exam registration) and appear for the end semester examination at the next opportunity and earn the credits without having to register (course registration) for the course again. The I grade once awarded stays in the record of the student and is deleted when he/she completes the course successfully later. The grade acquired by the student will be indicated in the grade card of the appropriate academic year with an indication of the month and the year of passing of that course. 'F' grade obtained by a student will be deleted in the grade card once that course is successfully completed. The pass grade acquired by the student will be indicated in the grade card of the appropriate year with an indication of the month and the year of passing. The CGPA will be accordingly revised.
24R8.5	The main eligibility criteria for registering the End Semester Examination are attendance in the course and no pending disciplinary action. The minimum attendance for appearing for the End Semester Examination is 75% in each course. Students who do not meet these eligibility criteria are awarded as FE grade.
24R8.5.1	The students with FE grade shall register for the courses during the normal semesters in which the courses are offered. However, for the seventh and eighth semester FE grade students can register for the courses in the next immediate chance.
24R8.5.2	A student who does not register for all the courses listed in the curriculum for a semester shall not be eligible to enroll for the next higher semester.
24R8.5.3	The maximum number of credits a student can register (course registration) for, in a semester is limited to 10 credits in excess of the total mandatory credits allotted in the curriculum for that semester.
24R8.5.4	A student will be eligible for the award of B. Tech. Degree of the University on satisfying the following requirements: i. Fulfilled all the curriculum requirements within the stipulated duration of the program. ii. Minimum CGPA and Credits: Must have a minimum CGPA of 5.0 AND should have minimum 170 credits including 3 credits from Activity Points. iii. No pending disciplinary action.
24R8.5.5	Students registered for a course have to attend the course regularly and undergo the Continuous Internal Assessment (CIA) and appear for the End Semester Examinations (ESE). Credits for the course are deemed to be earned only on getting at least a pass grade 'P' or better in the composite evaluation.
24R8.6	Pass minimum for a course shall be 40% for the End Semester Examination and 50% of CIA and ESE aggregate. If a course has both theory and practical components, then the student shall appear in the end semester examinations of both the theory and practical components and a separate minimum of 40% is required for each component. For courses with only CIA and no ESE, a minimum of 50% of CIA mark is required for a P grade.

24R8.7	Grading is based on the overall % marks obtained by the student in a course, as given in **24R8.7.1**. The grade card shall only give the grades against the courses the student has registered. Semester grade card shall give the grade for each registered course, Semester and Semester grade card can be downloaded only when the student successfully completed the semester. Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).

24R8.7.1	

<table>
<tr><td colspan="3" align="center">Grade and Grade Points</td></tr>
<tr><td>Grades</td><td>Grade Point (GP)</td><td>% of Total Marks obtained in the course</td></tr>
<tr><td>S</td><td>10</td><td>90% and above</td></tr>
<tr><td>A+</td><td>9.0</td><td>85% and above but less than 90%</td></tr>
<tr><td>A</td><td>8.5</td><td>80% and above but less than 85%</td></tr>
<tr><td>B+</td><td>8.0</td><td>75% and above but less than 80%</td></tr>
<tr><td>B</td><td>7.5</td><td>70% and above but less than 75%</td></tr>
<tr><td>C+</td><td>7.0</td><td>65% and above but less than 70%</td></tr>
<tr><td>C</td><td>6.5</td><td>60% and above but less than 65%</td></tr>
<tr><td>D</td><td>6.0</td><td>55% and above but less than 60%</td></tr>
<tr><td>P</td><td>5.5</td><td>50% and above but less than 55%</td></tr>
<tr><td>F</td><td>0</td><td>Below 50% (CIE + ESE) or Below 40 % for ESE</td></tr>
<tr><td>FE</td><td>0</td><td>Failed due to lack of eligibility criteria (R6.6)</td></tr>
<tr><td>I</td><td>0</td><td>Could not appear for the end semester examination but fulfills the eligibility criteria.</td></tr>
<tr><td rowspan="2">Classification of B. Tech Degree.</td><td colspan="2">First Class with Distinction - CGPA 8.0 and above</td></tr>
<tr><td colspan="2">First Class - CGPA 6.5 and above</td></tr>
<tr><td colspan="3">Equivalent percentage mark shall be = 10 * CGPA</td></tr>
</table>

24R8.7.2	There is no provision for improving the grade. However, the student is permitted to check the answer books of the End Semester Examination after the results are declared, on payment of the prescribed fee. Any discrepancy in evaluation could be brought to the notice of the Controller of Examination through the exam grievance mechanism, who shall initiate appropriate action as per the Institute Examination Manual.

24R8.8	*Revaluation:* The students can apply for revaluation of the answer books of the end semester examination after the results are declared. The Controller of Examination shall examine such cases and take appropriate actions based on rules available in the Institute Examination Manual.

24R8.8.1	All matters pertaining to the conduct of End Semester Examinations (ESE), declaration of results, revaluation, scrutiny, review, handling of malpractices, and related procedures shall be managed in strict accordance with the Institute Examination Manual.
24R8.9	*SGPA/CGPA Calculation:* Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows. $$SGPA = \Sigma(C_i \times GP_i)/\Sigma C_i ,$$ where 'Ci' is the credit assigned for a course and 'GPi' is the grade point for that course. Summation is done for all courses specified in the curriculum of that semester. The failed and incomplete courses shall also be considered in the calculation. $$CGPA = \Sigma(C_i \times GP_i)/\Sigma C_i ,$$ where 'Ci' is the credit assigned for a course and 'GPi' is the grade point for that course. Summation is done for all courses specified in the curriculum up to that semester for which the 'CGPA' is needed. Here the failed courses shall also be accounted for CGPA for the B. Tech program is arrived at by considering all course credits that are needed for the degree and their respective grade points. For students admitted under lateral entry scheme, credits for the first and second semester courses shall not be accounted for the calculation of CGPA. Equivalent percentage mark shall be = 10 * CGPA Courses pursued towards a 'Minor' or 'Honors' specialization, shall not be included in the calculation of SGPA or CGPA for the main B. Tech. program. All other courses that are not considered for the computation of SGPA and CGPA shall be explicitly listed in the curriculum.
24R8.9.1	*CGPA Calculation for Students Admitted under the Lateral Entry Scheme:* i. For students admitted under the lateral entry scheme, credits for the first and second semester courses shall not be included in the calculation of CGPA. ii. The Consolidated Grade Card and Official Transcript for B. Tech. lateral entry students shall include the statement: "A total of 44 credits have been awarded based on the credits earned from the qualifying Diploma/Degree Program."
24R8.9.2	GPA and CGPA shall be calculated to two decimal places.
24R8.10	*Re-admission*: when the case of readmission arises from one scheme to another, respective BoS shall have to prepare the courses for credit transfer/ transitory courses. In such cases application from students addressed to dean UG shall be forwarded to respective BoS and academic council shall approve the same after receiving the recommendation from BoS.

24R8.11	**Minimum Cumulative Credit Requirements for Registering to Higher Semesters**				
	Semester	Allotted Credits	Cumulative Credits	Mini. Cumulative Credits required for B. Tech	Mini. Cumulative Credits Required for B. Tech Lateral Enrty.
	First	20	20	Not Applicable	Not Applicable
	Second	24	44	Not Insisted	Not Applicable
	Third	25	69	Not Insisted	Not Applicable
	Fourth	24	93	Not Insisted	Not Insisted
	Fifth	23	116	18 credits from S1& S2	Not Insisted
	Sixth	23	139	Not Insisted	Not Insisted
	Seventh	17	156	37 credits from S1 to S4	15 Credits from S3 to S4
	Eight	11	167	Not Insisted	Not Insisted

9.Break of Study

24R9.1	a) A student is permitted to avail break of study:

a) A student is permitted to avail break of study:

    i)   In case the student has a bright idea and would like to initiate a start-up venture or develop a product.

    ii)   In case of accident or serious illness needing prolonged hospitalization and rest.

    iii)   In case of any personal reasons that need a break in study.

    iv)   For internship leading to employment.

b) Break of study shall be imposed on a student due to the following reasons

    i)   'Debarred from study' due to any stipulated reason in the previous semester.

    ii)   'Pending Disciplinary Actions' against him/her from the previous semesters

    iii)   Not registered for a semester.

	For break of study due to illness, student shall submit all necessary medical reports together with the recommendation of the doctor treating him giving definite reasons for break of study and its duration. Before joining back, the student should submit the fitness certificate from the doctor who treated him.
	Students who want to initiate a start-up venture or a product development, have to funding details and future plans to the college Principal. The Principal shall evaluate the proposal by constituting an expert team consisting of a technocrat and a bank executive and take an appropriate decision based on the team's recommendation. The break of study for the start-up shall be permitted only after the 4th semester for a maximum duration of two semesters. This is however permitted only on successfully completing the courses listed out in the first two semesters.
	Students who require a break in study due to personal reasons shall convince the Principal on the genuine need for it by giving authentic evidence for the same. Students who require break in study for 'internship leading to employment' shall produce the offer letter obtained from the employer concerned. The HoD shall verify the authenticity of the offer and submit his recommendation to the Principal in advance for approval. Only campus placed students with an annual compensation more than 6 lakhs are eligible to avail this facility.
	The student can avail the break of study only with the prior approval of the Principal. Students shall have to rejoin on the first working day of the same semester on which he/she had started availing the break of study.
	Students shall not be permitted to avail a break of study in a specific semester once the examination registration is completed.
24R9.2	During the Break of Studies, a student is: a. Not permitted to attend any regular classes b. Not permitted to stay in the 'Hostel' facility provided by the college c. Not permitted to participate in any of the institute level activities inside the campus. d. Eligible to reappear for the 'End Semester Final Examination' for such courses in which he/she might have obtained 'F' / 'I' grade.
24R9.3	If a student does not rejoin the institution after the permitted break of study duration and fails to communicate their status, they will be treated as being under "Uninformed Long Absence".
	10.Attendance
24R10.1	Students are expected to attain 100% attendance for all courses. However, under unavoidable circumstances, they are permitted to take leave, provided that the total leave of absence does not exceed 25% of the academic contact hours for a course. i. A minimum of 75% attendance is mandatory to be eligible to appear for the end semester examination.

	ii. Menstrual Leave Attendance Relaxation: A **2%** relaxation in attendance shall be granted to students as menstrual leave. iii. PWD Attendance Relaxation: A **5%** relaxation in attendance shall be granted to students with disabilities (PWD). The students shall verify their attendance periodically from the student portal to avoid any attendance shortage Those students who have taken leave more than 5 continuous working days are expected to submit the medical certificate duly signed by the SFA, HoD and Principal and the same has to be entered in the CMS.
24R10.2.1	On medical ground, the Principal can relax the minimum attendance requirement to 60%, to write the end semester examination. This is permitted for one or more courses registered in the semester. HoD shall forward the application of students for attendance relaxation to the Principal for approval. The SFA shall keep all records which led to his decision on attendance, for verification by the IQAC/any other competent authority. This provision is applicable only to any two semesters during the entire program period. *Attendance Condonation Fee:* Students shall pay a fee, as fixed by the college, for each course to avail the attendance condonation option.
24R10.2.2	The Principal has the power to grant attendance relaxation to the students in officially sponsored national/international level competitions/championships/ tournaments when called upon to do so, up to a maximum of 10%. Such students should submit the application prior to the event with proper documents. Such students should produce the participation certificate counter signed by the concerned authority within ten days of the event. The participation certificate thus produced shall be forwarded to the Principal with the due recommendation of the respective Head of the Department. Under any circumstances, the Principal shall not consider the certificate, if the overall attendance of the candidate is less than 60%. Late applications received shall not be considered on any account. The student shall get official prior permission from the Institution for representing the Institution.
24R10.3	**Uninformed Long Absence** A student shall be classified under 'Uninformed Long Absence' if they are continuously absent from classes or other academic obligations for 20 working days without submitting a written notification to the Principal.
24R10.3.1	i. The Principal shall send an official communication to the student, parent, or guardian within 15 working days from the start of the absence, directing the student to immediately resume attendance. ii. This communication should be delivered via registered letter and email.

24R10.3.2	The proof submitted by the Principal for 'Uninformed Long Absence' must include the official communication sent to the student, parent, or guardian directing the student to attend classes immediately, and an undertaking that the student failed to attend classes despite the notice within the specified time (20 working days).
24R10.3.3	Students designated as being in uninformed long absence shall not be eligible for promotion to the next semester alongside their peers.
24R10.3.4	*Rejoining After Uninformed Long Absence:* i. Rejoining for Students (Except First-Year): Students, except those in their first year, are permitted to rejoin within a maximum period of one year following the marking of their 'Uninformed Long Absence. ii. Rejoining for First-Year Students: First-year students are permitted to rejoin if they submit a rejoining request within a maximum period of two months after being marked as Uninformed Long Absence. However, they shall not be permitted to rejoin if they submit the request after the last working day specified in the second semester academic calendar.
24R10.3.5	*Rejoining Fee:* *A rejoining fee, as fixed by the college, shall be collected from the student upon approval of their rejoining request.*
24R10.3.6	Removal from Roll List: i. If students do not rejoin the institute within the time limit specified in Regulation 24R10.3.3, the colleges shall remove their names from the roll list without any further notification. ii. However, a fee shall be collected from the students for the issuance of a cancellation certificate or migration certificate.
11.Inter College Transfer	
24R11	Inter college transfer shall be applicable only for regular B. Tech students subject to the stipulations from the affiliating university promulgated from time to time.
12. Migration from other Universities	
24R12	Migration to the institution from other Universities shall be permitted subject to the stipulations from the affiliating university promulgated time to time.

	13 Minor in Engineering.
24R13.1	All B. Tech students shall be eligible to register for Minor in Engineering. Students are generally not allowed to register for minors offered by their parent branches. A student can opt for only one minor specialization. Once a Minor specialization is registered, it cannot be changed. A minimum enrolment of 15 students is required to offer a minor program.
24R13.2	The Minor in Engineering registration shall be along with the registration of the 3rd semester.
24R13.2.1	*Minor Program Selection Verification:* i. A scrutiny committee, consisting of the Senior Faculty Advisors (SFAs), Heads of Departments, IQAC Convenor, and the Dean (Academics), shall verify that the Minor program selected by students complies with the guidelines 24R13.1 . ii. The College Council shall then verify and approve the final list submitted by the scrutiny committee.
24R13.3	If a student fails in any course of the minor, he/she shall not be eligible to continue the B. Tech Minor. However, the additional credits and grades thus far earned by the student shall be included in the grade card but shall not be considered in calculating the CGPA. Grace Marks shall not be awarded for Minor courses.
24R13.4	The student shall earn additional 15 credits to be eligible for the award of B. Tech Degree with Minor.
24R13. 5	Minor course distribution
24R13.6	Curriculum and the syllabus of the minor courses shall be approved by the Board of studies and the Academic Council.
24R13.7	The assessment of the courses other than MOOCs and earning of credits shall be as per **24R8.1**. The assessment and certification of the MOOCs shall be as per the prescribed norms of the MOOCs. The candidate shall produce the certification issued by the MOOCs conducting agency in proof of credit attainment.

For 24R13.5:

Sl No	Sem	Course Code	Course Name	Credit	Total mark	
					CIA	ESE
1	3	MNXXT309	Course	4	40	60
2	4	MNXXT409	Course	4	40	60
3	5	MNXXT509	Course/MOOC	4	40	60
4	6	MNXXT609	Course/MOOC	3	40	60
		Total Credit		15		
XX: Branch/Department Code						

MOOCs recommended by the Board of studies and approved by the Academic Council.

24R13.7.1	Undergraduate Degree with minor shall be issued by the University to the students who fulfill all the academic eligibility requirements for the B. Tech program and Minor in Engineering.
24R13.7.2	The institutions shall charge any additional fees other than examination fees from the students for the Minor course.

14. B. Tech (Honors)

24R14.1	All B. Tech students are eligible to register B. Tech (Honors). However, their mandatory CGPA at the end of eighth semester shall be 8 or higher to be eligible for the award of B. Tech (Honors).The student must earn a grade of 'C' or above in the Honours course offered .
24R14.2	The B. Tech (Honors) registration shall be along with the registration of the 4th semester. Registration for theory course listed in the 4th semester of the Honors curriculum is mandatory. Revaluation will not be permitted for any of the theory courses in the Honors curriculum.
24R14.3	If a student fails in any course including the course chosen for B. Tech (Honors), he/she shall not be eligible to continue the B. Tech(Honors). However, the additional credits thus far earned by the student shall be included in the grade card but shall not be considered in calculating the CGPA.
24R14.4	The student shall earn additional 15 credits to be eligible for the award of B. Tech (Honors) Degree.

24R14. 5	Honour course distribution

Sl No	Sem	Course Code	Course Name	Credit	Total mark	
					CIA	ESE
1	4	HNXXT409	Course	4	40	60
2	5	HNXXT509	Course	4	40	60
3	6	HNXXT609	Course/MOOC	4	40	60
4	7	HNXXT709	Course/MOOC	3	40	60
Total Credit				15		
XX: Branch/Department Code						

MOOCs recommended by the Board of studies and approved by the Academic Council

24R14.6	Curriculum and the syllabus of the honors courses shall be approved by the Board of studies and the Academic Council.
24R14.7	The assessment and certification of the MOOCs shall be as per the prescribed norms of the MOOCs. The candidate shall produce the certification issued by the MOOCs conducting agency in proof of credit attainment.
24R14.7.1	The institutions shall not charge any additional fees other than examination fees from the students for the Honors course.

24R14.7.2	B. Tech (Honors) Degree shall be issued by the University to the students who fulfill all the academic eligibility requirements for the B. Tech and B. Tech (Honors) programs.
15. Grace Marks for Sports /Arts Competitions.	
24R15.1	Only bonafide, regular candidates are eligible for the award of Grace Marks.
24R15.2	The criterion for the award of Grace Marks is representing the Institution in officially sponsored national level competitions/championships/ tournaments when called upon to do so. The student shall get official prior permission from the Institution for representing the Institution.
24R15.3	The maximum grace marks that can be awarded to a candidate in a particular semester for all activities put together shall be 5% of the aggregate maximum End Semester Examination marks of all theory courses for which the Institute conducts End Semester Examinations.
24R15.4	The maximum grace marks that can be awarded to a student for a theory course in a particular semester for all activities put together shall not exceed 10% of the maximum aggregate marks of End Semester Examination of the course.
24R15.5	The Grace Marks shall not be awarded to a student for Practical/ Lab/ Viva Voce/ internal assessment/ Seminar etc. even though she/he fails for the same.
24R15.6	Eligible Grace Marks shall be distributed equally on all theory papers/courses of an examination. However, redistribution of Grace Marks shall be allowed only in the case of those courses of an examination for which the candidate has passed. Redistribution is possible from passed courses to failed courses only. Redistribution of Grace Marks is not permissible from failed courses to other courses for a pass.
24R15.7	The Grace Marks shall be awarded for all theory courses in a semester.
24R15.8	Redistribution shall be done only for enabling a candidate to obtain the minimum marks required for a pass.
24R15.9	Grace Marks shall not be redistributed from one semester to another semester.
24R15.10	If the candidate does not secure the minimum marks required for a pass even after effecting redistribution, eligible moderation fixed by the respective board if any, shall be awarded to that candidate in addition to the Grace Marks for a pass.
24R15.11	Eligible Grace Marks shall be awarded for the regular examination of the performing semester only. Grace Marks shall not be awarded for supplementary examinations.
24R15.12	The performing semester shall be considered from 1st July to 31st December (Odd semester) and 1st January to 30th June (Even Semester).
24R15.13	Grace Marks shall be awarded on the basis of performance in the respective semester.
24R15.14	The request for Grace Marks shall be submitted to the Controller of Examinations through the Principal along with all relevant documents, within 10 days of the publication of the semester result. The request for Grace Marks received after the time limit shall not be entertained on any account.
24R15.15	Only a single highest achievement during the period of a semester shall be considered for awarding the grace marks.
16. Grace Marks for Persons with Disability (PWD)	
24R16.1	A person with disability means a person suffering from not less than 40% of any disability as certified by the Medical Board in Govt. hospitals. To be eligible for the

	grace marks, the certificate of disability specifying the percentage of disability shall be produced before the Principal at the time of admission.
24R16.2	The Grace Marks that can be awarded for PWD candidates shall be 25% of the marks scored by the candidate in each course at the time of finalization of the results.
24R16.3	Transfer of marks from one paper to another shall not be permitted. Fractions of marks if any, while computing the Grace Marks shall be rounded off to the next higher integer.
24R16.4	PWD candidates who are eligible for Grace Marks shall be awarded Grace Marks for regular and supplementary chances until they pass the whole examination.
24R16.5	Grace Marks shall be awarded only for the marks of the End Semester Examinations.
24R16.6	Request for Grace Marks shall be submitted to the Controller of Examinations through the HoD along with all relevant documents, within the time limit prescribed by the Institution. The request for Grace Marks received after the time limit shall not be entertained on any account.
17. Grace Marks for Paper publication	
24R17	Grace mark for publication is restricted to a maximum of 10 marks. Students will be awarded 5 marks for publication, in which he/she is the author or co-author and the publication is accepted in a Scopus indexed conferences and will be awarded 10 marks for publication, in which he/she is the author or co-author and the publication is accepted in a SCI/Scopus index journal. This is to be validated and approved by the research council of the college.
18. Degree Certificate & Provisional Certificate	
24R18.1	Award of Degree: Upon satisfying all the conditions noted in **24R8.9**, Institution shall recommend to affiliated university for awarding the B. Tech degree to such students. Affiliated University is the authority for awarding the degree certificate.
24R18.2	Provisional Degree Certificate & Consolidated Semester grade card: Upon satisfying all the conditions noted in **24R8.9**, institution shall issue consolidated grade card and Provisional Degree certificate for the students.
19. Transcript	
24R19.1	Transcript will be issued to students on request by paying a prescribed fee. Transcripts shall contain all the information that is mentioned in the grade sheet along with the month and year of passing of each course.

24R19.2	*Inclusion of Honours and Minor Credits in Consolidated Grade Card/ Official Transcripts:*
	
	    i. The CGC and OT shall separately include the credits earned for Honours and Minor courses, where applicable, highlighting the student's additional achievements beyond the core curriculum.
	
	    ii. If a student has not acquired eligibility for the award of the Honours or Minor degree, the credits earned for these courses will be reflected as "Additional Credits earned" by the candidate on the CGC and OT.

24R19.3	*Examination Grade Sheet for Honours/Minor Courses:* The Examination Grade Sheet is an official document that allows students to view the result status of the Honours or minor courses they have registered for in a given semester. i. Separate Grade Sheets: Separate grade sheets for honors and minor courses will be accessible through the student's login, providing a clear overview of their performance in each category. Content of the Grade Sheet: For minor and honors program, the title of each successfully completed course, along with the corresponding number of credits and grades (if applicable) earned by the student in that particular semester, will be included in the Examination Grade Sheet.

24R19.4	*Position Certificate for Top 2% Students:*
	
	The University shall issue a Position Certificate to the top 2% of students in each discipline or branch of study, based on their academic performance across all semesters. The ranking shall be determined by the student's Cumulative Grade Point Average (CGPA) at the end of the program.
	
	Eligibility Criteria:
	
	    i. Students with any history of 'F', 'FE', or 'Ab' grades are not eligible for the Position Certificate.
	
	    ii. Only students who have completed their degree requirements within the normal program duration are eligible.
	
	    iii. The certificate will be issued only after three months from the announcement of the Semester 8 results.
	
	    iv. The ranking will be based on the CGPA as of the date of the official publishing of the position ranking. No re-ranking will be entertained after the issuance of the certificate.
	
	    v. Any disciplinary action during the course of the program will disqualify a student from receiving the position certificate.
	
	The University reserves the right to amend the policy or criteria for issuing position certificates, subject to changes in academic regulations or other governing factors.

20. Transitory Provision.	
24R20	Notwithstanding anything contained in these regulations, the statutory bodies shall, have the power to provide by order that these Regulations shall be applied to any B. Tech program with such modifications as may be necessary.

ANNEXURE 1

RULES FOR ASSIGNING ACTIVITY POINTS

Apart from technical knowledge and skills, to be successful as professionals, students should have excellent soft skills, leadership qualities and team spirit. They should have entrepreneurial capabilities and societal commitment. With a view to nurturing these qualities, activity points to be earned by the students, covering extra-curricular and co- curricular activities, have been specified. All students have to earn a minimum of 120 activity points from various activity segments listed to qualify for the B. Tech degree. Three credits are given for this on a pass/ fail basis and is mandatory for getting the B. Tech Degree. As no grade is given for these three credits, they are not included in the CGPA calculation. For lateral entry students joining from the third semester, the activity point requirement is 90 Points earned by the student will be indicated in the consolidated academic statement. In case of NSS and NCC, points can be entered after the completion of two-year Program. All documental proof for awarding the activity points should be obtained and the points are to be consolidated. The rules for assigning activity points are given in the following sections.

Activity Points				
Sl.No.	Group	Courses	Credits	Minimum Credit Requirements
1	I	NSS, NCC, NSO (National Sports Organization)	1 (40 Points)	3 Credits (One credit from each Group)
2		Arts/Sports/Games		
3		Professional body activities (IEEE, ACM, IE etc.)		
4	II	English Proficiency Certification (TOFEL, IELTS, BEC etc.)	1 (40 Points)	
5		Aptitude Proficiency Certification (GRE, CAT, GMAT etc.)/ Valid Gate Score.		
6		Short Term Internship (Minimum 2 weeks), Training (Minimum 2 weeks), Conferences/Paper Presentation/ Workshop Activities/Participation in University level/State Level/ National Level Hackathons		
7	III	Journal Publication, Patents, Start-Up, Innovation, Winners of National/ International Level Hackathons	1 (40 Points)	
8		**Skilling Certificates/MOOC** (Approved by the Academic Council)		

Additional activities under these segments can be considered, after approval from the Academic Council.

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