

ACHARIYA

COLLEGE OF ENGINEERING TECHNOLOGY

(An Autonomous Institution)

(Approved by AICTE, New Delhi | Affiliated to Pondicherry University)

Accredited by NAAC | ISO 9001:2015 Certified Institution

Achariyapuram, Villianur, Puducherry – 605110

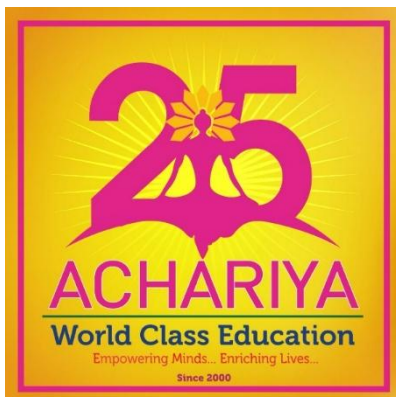


CURRICULUM, RULES AND REGULATIONS

for

Under Graduate Program's

B.Tech., (All Departments)



REGULATION 2026-2027

(Effective from Academic Year 2026-27 Batch Onwards)

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1. VISION & MISSION

Vision

To be a center of excellence in technical education, producing globally competent and ethically strong engineering professionals who contribute to the development of society and nation.

Mission

- Provide high-quality engineering education through state-of-the-art infrastructure.
- Foster innovation, research, and entrepreneurship among students.
- Maintain lifelong connection with alumni and industry partners.
- Inculcate moral values and psychological well-being.

1.1 About Achariya College of Engineering Technology

Achariya College of Engineering Technology– A temple of learning, is an ISO, NAAC certified (An Autonomous) Institution was founded by the great Educationalist and Philanthropist, **Dr. Tr. J. Arawindhan Ji**. The main objective of college is to advance the knowledge-based Engineering Professions and to Influence the future directions of Engineering Education and Practice.

ACET – Best Engineering College in Pondicherry. We believe not only in Educating the students, but also in Grooming characters, with Moral and Ethical values to build the Nation. Since Inception, the college has been providing World-Class facilities & Infrastructure in Education and Learning. The emphasis is on Transformational Leadership rather than Directional Leadership. We aim to establish new Trends, Introduce Innovative training methodologies, and guide students towards the road to success.

2. PRELIMINARY

2.1 Vision and Academic Framework

Acharya College of Engineering Technology (ACET), Puducherry, with its commitment to academic excellence, innovation, and holistic development, envisions empowering students with knowledge, skills, values, and professional competencies to become globally responsible engineers and leaders. To realize this vision, the institution has designed a flexible and outcome-based curriculum aligned with the principles of Outcome-Based Education (OBE) under a learner-centric educational model.

2.2 Autonomous Academic Regulations

As an Autonomous Institution, all Undergraduate Engineering Programmes offered by ACET shall be governed by the provisions of these Academic Regulations (R-2026). The curriculum of each programme is designed to provide strong theoretical foundations, practical exposure, multidisciplinary learning opportunities, industry-relevant competencies, and flexibility in course selection to meet the evolving needs of higher education and industry.

2.3 Scope of the Regulations

The provisions contained in these regulations shall govern the academic policies, curriculum structure, credit requirements, conduct of examinations, evaluation procedures, grading system, and all other academic activities of the institution.

2.4 Academic System

The semester pattern shall be followed for all academic activities. Normally, the Odd Semester shall commence during June/July and the Even Semester during December/January as approved by the Academic Council from time to time.

2.5 Quality Assurance and Evaluation

ACET is committed to maintaining the highest standards of engineering education through a transparent, fair, and continuous evaluation system. The assessment process shall emphasize

knowledge acquisition, skill development, innovation, problem-solving ability, and professional ethics through time-bound and outcome-based evaluation practices.

2.6 Objectives of Choice Based Credit System (CBCS)

The Choice Based Credit System (CBCS) at ACET aims to:

- Transform educational delivery from a teacher-centric approach to a learner-centric approach, promoting independent learning, critical thinking, and lifelong learning skills.
- Facilitate holistic student development through a balanced curriculum that integrates academic excellence, practical learning, research orientation, and professional competencies.
- Provide academic flexibility by enabling students to choose from interdisciplinary, multidisciplinary, skill-based, value-added, and elective courses according to their interests and career aspirations.
- Create an inclusive learning environment that accommodates diverse learning styles and encourages self-paced learning and academic progression.
- Strengthen industry readiness through internships, industrial training, live projects, industry-supported laboratories, and collaborative learning experiences.
- Foster innovation, entrepreneurship, and start-up culture through incubation centres, innovation hubs, research initiatives, and mentorship programmes.
- Promote sustainable development, environmental consciousness, ethical values, and social responsibility among students.
- Implement continuous and comprehensive assessment methodologies that evaluate both conceptual understanding and practical application of knowledge.
- Encourage global learning opportunities through collaborations with industries, universities, professional bodies, international certification programmes, and student exchange initiatives.

- Integrate Indian Knowledge Systems (IKS), cultural heritage, regional values, and emerging technologies into the curriculum to nurture socially responsible and culturally rooted professionals.
- Promote research, publication, patent development, and technological innovation among students and faculty members.

2.7 Amendments to Regulations

The rules and regulations specified herein shall be subject to modifications, revisions, and amendments as approved by the Academic Council, Governing Body, and other statutory bodies of the institution from time to time.

3. OUR COURSES

ACHARIYA COLLEGE OF ENGINEERING TECHNOLOGY (ACET) was inaugurated on 29.09.2010 and commenced from the academic year 2010-11.

3.1 Undergraduate (UG) Programs

- B.Tech. - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
- B.Tech. - COMPUTER SCIENCE AND ENGINEERING
- B.Tech. - ELECTRICAL AND ELECTRONICS ENGINEERING
- B.Tech. - ELECTRONICS AND COMMUNICATION ENGINEERING
- B.Tech. - MECHANICAL ENGINEERING
- B.Tech. - INFORMATION TECHNOLOGY
- B.Tech. - ROBOTICS AND AUTOMATION
- B.Tech. - COMPUTER SCIENCE AND ENGINEERING (IOT, CYBER SECURITY INCLUDING BLOCK CHAIN TECHNOLOGY)

3.2 Postgraduate (PG) Programs

- M. Tech. - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
- MBA- GENERAL

4. GLOSSARY OF TERMS AND ACADEMIC NOMENCLATURE

Table 1: Glossary of Terms and Academic Nomenclature

Term	Definition
College / Institution	Achariya College of Engineering Technology (ACET), an Autonomous Institution affiliated to Pondicherry University, Puducherry.
University	Pondicherry University, Puducherry.
Programme	A degree Programme leading to the award of Bachelor of Technology (B.Tech.).
Department	An academic unit offering a specific branch or specialization such as Artificial Intelligence and Data Science, Computer Science and Engineering, Information Technology, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical Engineering, Civil Engineering, Robotics and automation, etc.
Course	A component of study such as Theory, Laboratory, Integrated, Project, Internship, Skill-Based, Value-Added, or Multidisciplinary Course carrying specified credits.

Curriculum	The complete framework of courses, credits, assessments, internships, projects, and learning activities prescribed for a Programme.
Professional Core Course (PCC)	A mandatory course that forms the foundation of the discipline and contributes directly to Programme outcomes.
Professional Elective Course (PEC)	A discipline-specific elective chosen by students from a prescribed basket of courses.
Open Elective Course (OEC)	A multidisciplinary elective offered by departments other than the student's parent department.
Career Development Skill Course (CDC)	A course designed to develop employability, entrepreneurship, technical, professional, and life skills.
Humanities, Social Sciences and Management Course (HSM)	Courses aimed at developing communication skills, ethics, management aptitude, social awareness, and human values.
Internship	Structured industrial, research, community engagement, or entrepreneurial training undertaken by students for experiential learning.
Project Work	Individual or group work involving design, development, experimentation, innovation, or research to solve real-world problems.

Credit	A numerical value assigned to a course based on the learning hours and academic workload involved.
L-T-P-S-C	Lecture (L), Tutorial (T), Practical (P), Self-Learning (S), and Credits (C).
Semester	A period of academic study normally comprising not less than 90 working days.
Odd Semester	The semester generally conducted between June and November.
Even Semester	The semester generally conducted between December and May.
Period	A scheduled instructional session of 50 minutes duration.
Student Enrolment	Admission and registration of a student into a programme of study.
Lateral Entry	Admission directly into the Third Semester of the B.Tech. programme after successful completion of a Diploma or equivalent qualification.
Continuous Assessment Test (CAT)	Periodic evaluation through tests, assignments, quizzes, seminars, laboratory performance, projects, and other assessment methods.
End Semester Examination (ESE)	The final examination conducted at the end of a semester for each course.

Arrear Course	A course in which a student has failed to satisfy the prescribed requirements for successful completion.
Regular Examination	The End Semester Examination conducted for students registered in the current semester.
Arrear Examination	An examination conducted for students who need to clear previously failed courses.
Supplementary Examination	A special examination conducted as per the regulations for eligible students to complete pending courses.
First Appearance	The first registered attempt by a student in the End Semester Examination of a course, including absence after registration.
Grade Point	The numerical value assigned to a letter grade awarded in a course.
Semester Grade Point Average (SGPA)	The weighted average of grade points earned by a student during a semester.
Cumulative Grade Point Average (CGPA)	The weighted average of grade points earned in all completed semesters.
Principal	The Head of the Institution responsible for academic and administrative governance.
Controller of Examinations (CoE)	The authority responsible for planning, conducting, evaluating, and monitoring all examination-related activities.

Academic Council (AC)	The apex academic body of the Autonomous Institution responsible for academic policies, regulations, curricula, and evaluation systems.
Board of Studies (BoS)	The departmental body responsible for curriculum design, syllabus revision, and academic recommendations.
Board of Examiners (BoE)	The body responsible for question paper setting, moderation, evaluation standards, and examination quality assurance.
Standing Committee (SC)	A committee empowered to address urgent academic matters pending approval of the Academic Council.
Academic Appeal Committee (AAC)	A committee constituted to review student grievances related to assessment and examination results.
Department Academic Review Committee (DARC)	A committee that monitors academic progress, curriculum delivery, attendance, and student performance.
Programme Coordinator	A faculty member responsible for coordinating programme-level academic activities and curriculum implementation.
IQAC	Internal Quality Assurance Cell responsible for continuous quality improvement initiatives.
AICTE	All India Council for Technical Education.
UGC	University Grants Commission.

NAAC	National Assessment and Accreditation Council.
NEP	National Education Policy.
SDGs	Sustainable Development Goals adopted by the United Nations.
BoE	Board of Examiners
SC	Standing Committee
AAC	Academic Appeal Committee
DARC	Department Academic Review Committee
CDRC	Curriculum Designing and Restructuring Committee
R-2026	Regulation 2026
PBL	Project-Based Learning
ABC	Academic Bank of Credits
ESE	End Semester Examination
IKS	Indian Knowledge Systems
ESM	End Semester Marks

5. ELIGIBILITY CRITERIA FOR ADMISSIONS

5.1 B. Tech Candidates

All the programs at Achariya college of Engineering Technology (ACET) are affiliated to Pondicherry University, Pondicherry and approved by the All-India Council for Technical Education (AICTE), New Delhi. Achariya college of Engineering Technology is an autonomous institute affiliated to Pondicherry University. The curriculum is revised and upgraded regularly. All the programs are conducted on a semester basis. The teaching methodology focuses on classroom lectures, guest lectures, self-learning, assignments, projects, practical sessions, periodical evaluation and feedback. The B.Tech program consists of 8 semesters (4 years) in duration. Evaluations, both internal and external, are carried out according to the norms of Pondicherry University. The B.Tech Programs are the flagship programs at Achariya college of Engineering Technology, Puducherry. Admission to these Programs is strictly by merit. There are currently Eight B.Tech programs offered at Achariya college of Engineering Technology (ACET).

5.2 Qualifying Examinations and Eligibility: A Pass in the HSC (Academic: both +1 and +2) or its equivalent with a minimum average percentage as given below.

Table 2 Eligibility Terms for Admission

Community	A Pass with Minimum average marks in Mathematics, Physics and Chemistry put together in +2
General Category	45 %
Backward class including Backward class Muslim	40 %
MBC & DNC	40 %
SC/ SCA/ST	40 %

5.3 Lateral Entry Admission

For Lateral Entry (Direct Second Year) admission a pass in Diploma or BSc or Equivalent qualification of the relevant field of engineering discipline of the undergraduate degree that the candidate being enrolled. Students can opt for interdisciplinary courses of their interest irrespective of the diploma courses.

5.4 Medium of Instruction and Award of Degree

The medium of instruction for all courses in the B.Tech. programme shall be **English**.

A student admitted to a specific branch of the B.Tech. programme shall be awarded the degree in that branch upon successful completion of all the academic requirements prescribed under the regulations within the stipulated period of study.

5.5 B.Tech. Degree with Honors

In addition to the regular B.Tech. degree, a student may opt to pursue a **B.Tech. Degree with Honors** in the same discipline. The option may be exercised at the end of the first year of study, subject to the following eligibility criteria:

- The student must have secured a **minimum CGPA of 8.0** in the first attempt up to the end of the second semester.
- Students admitted through the **Lateral Entry Scheme** must have secured a minimum of **80% marks in the Diploma programme** with no history of arrears.

Students enrolled in the Honor programme shall be required to earn **an additional 18–20 credits** through prescribed Honor courses commencing from the third semester to seventh semester, atleast one course in each semester.

5.6 B. Tech Degree with Minor

A student may also opt to pursue a **Minor Degree** in another discipline in addition to the regular B.Tech. degree. The option may be exercised at the end of the first year of study, subject to the following eligibility criteria:

- The student must have secured a **minimum CGPA of 7.5** up to the end of the second semester, and should be without standing arrears during the time of the course registration.
- Students admitted through the **Lateral Entry Scheme** must have secured a minimum of **75% marks in the Diploma programme**.

Students enrolled in the Minor programme shall be required to earn **an additional 18–20 credits** through prescribed Minor courses commencing from the third semester to seventh semester.

5.7 Additional Credit Requirements for Honors / Minor

Students opting for either the **Honors** or **Minor** programme shall complete the prescribed additional credit requirements, normally ranging from **18 to 20 credits**, in addition to the credits required for the regular B.Tech. degree, atleast one course in each semester.

Students admitted through the **Lateral Entry Scheme** and opting for Honors or Minor shall also complete the prescribed additional credits during their period of study, as specified in the curriculum and regulations.

5.8 Programme Duration and Period of Study

A student admitted to the B.Tech. Programme shall undergo a course of study comprising **eight semesters** spread over a **minimum period of four academic years**. The student shall complete all the requirements for the award of the B.Tech. Degree within a **maximum period of seven academic years (14 semesters)** from the date of commencement of the first semester.

For students admitted under the **Lateral Entry Scheme**, the programme shall extend over a **minimum period of three academic years (six semesters)** commencing from the third semester. Such students shall complete all the requirements for the award of the degree within a **maximum period of six academic years (12 semesters)** from the date of commencement of the third semester.

6. PROGRAMME STRUCTURE

1. The medium of instruction, assessment, and examination for all B.Tech. Programme offered by Achariya College of Engineering Technology (ACET) shall be **English**.
2. A student admitted to a B.Tech. Programme in a particular branch of Engineering at ACET shall be eligible for the award of the B.Tech. Degree in that discipline upon successful completion of all prescribed curriculum requirements, credit requirements, and other academic regulations of the College.
3. To promote multidisciplinary learning and academic flexibility, students may be permitted to pursue **Honor, Minor, Value-Added, Career Development Skill Courses**, or other specialized courses as approved by the Academic Council from time to time, subject to the eligibility criteria prescribed by the College.
4. Students shall have the flexibility to choose elective courses, interdisciplinary courses, professional electives, open electives, and skill based courses in accordance with the curriculum structure of their respective programmes and the regulations approved by ACET.
5. The curriculum shall be designed in accordance with the principles of Outcome Based Education (OBE) and the National Education Policy (NEP), integrating fundamental sciences, engineering sciences, professional core courses, electives, laboratory courses, project work, internships, vocational training, and multidisciplinary learning opportunities.
6. The credit requirements, course categories, semester-wise distribution of courses, and graduation requirements shall be as prescribed in the curriculum and scheme of examinations approved by the College from time to time.
7. Students who opt for Honors or Minor programmes, wherever offered, shall satisfy the additional credit and course requirements prescribed by the College and shall comply with the regulations governing such programmes.

7. CURRICULUM STRUCTURE

The curriculum of the B.Tech. programmes at Achariya College of Engineering Technology (ACET) is designed in alignment with the principles of the **National Education Policy (NEP)**, **Outcome-Based Education (OBE)**, and contemporary industry requirements. The curriculum aims to provide students with a holistic, multidisciplinary, and learner-centric educational experience that fosters intellectual growth, professional competence, ethical values, and lifelong learning.

The curriculum emphasizes the development of technical knowledge, analytical ability, innovation, entrepreneurship, research aptitude, communication skills, leadership qualities, and professional ethics. It integrates theoretical learning with practical exposure through laboratory courses, project work, internships, industry interactions, and skill-development activities.

The curriculum provides flexibility through professional electives, open electives, multidisciplinary courses, value-added courses, and skill-based learning opportunities, enabling students to pursue their academic interests and career aspirations while acquiring domain-specific expertise.

The curriculum has been developed based on the Programme Educational Objectives (PEOs), Programme Outcomes (POs), and Programme Specific Outcomes (PSOs) of the respective programme. The course structure, content, and assessment methods are designed to facilitate the attainment of these outcomes and to ensure continuous academic improvement.

The curriculum shall be reviewed and updated periodically by the respective Boards of Studies and approved by the Academic Council to incorporate advancements in technology, industry expectations, emerging trends, societal needs, and regulatory requirements.

The curriculum framework shall include Foundation Courses, Basic Sciences, Engineering Sciences, Professional Core Courses, Professional Electives, Open Electives, Skill Enhancement Courses, Laboratory Courses, Internships, Project Work, and other components as approved by the Academic Council from time to time.

8. CATEGORY OF COURSES AND CREDIT DISTRIBUTION

8.1 Credit System Overview

The B.Tech. programme is offered under a **Choice Based Credit System (CBCS)**. A credit is a measure of the academic effort required to successfully complete a course and is assigned based on the number of contact hours per week.

8.2 Credit Allocation

The credit assignment for various categories of learning activities shall be as follows:

Table 3: Credit Allocation

Learning Component	Contact Hours per Week Credits Awarded	Contact Hours per Week Credits Awarded
Lecture (L)	1 Hour	1 Credit
Tutorial (T)	1 Hour	1 Credit
Practical / Laboratory (P)	2 Hours	1 Credit
Project / Design Project	2 Hours	1 Credit

The curriculum consists of various categories of courses designed to provide theoretical knowledge, practical skills, project-based learning, and industry exposure. The credit allocation for different course categories shall be as specified in Table 4.

8.3 Table Credit Distribution for Various Course Categories

Table 4: Credit Distribution for Various Course Categories

Course Category	L	T	P	Self-Learning	Credits
Theory	3	0	0	6	3
Theory with Tutorial	3	1	0	6	4
Integrated Course	2	0	2	6	3
Practical / Laboratory Course	0	0	3	6	1.5
Micro Project	0	0	2	20	1
Mini Project	0	0	4	20	2
Project Work	0	0	22	40	11
Industrial Training / Internship (2 Weeks)	-	-	-	40	1
Industrial Training/ Internship (4 Weeks)	-	-	-	80	2
Industrial Training / Internship (6 Weeks)	-	-	-	120	3

*Note: *SL – Self-Learning activities may include Project-Based Learning, Experiential Learning, Seminars, Case Studies, Simulation and Role-Playing, Portfolio Development, Assignments, and other approved learning activities.*

- 1 Credit = 40 Hours of Internship / Industrial Training.
- The duration and credit requirements for internships shall be as prescribed in the curriculum and approved by the Academic Council.

8.4 Course Categories and Credit Distribution

The courses of study for all B.Tech. programmes offered by Achariya College of Engineering Technology (ACET) shall comprise Theory Courses, Laboratory Courses, Integrated Courses, Skill Enhancement Courses, Project Work, Internships, and other experiential learning components as prescribed in the approved curriculum and syllabi.

The total credits for the award of the B.Tech. Degree shall be in the range of **160 to 172 credits** for the four-year programme, in accordance with AICTE norms. Minor variation across programmes is permitted as prescribed by the respective Boards of Studies and approved by the Academic Council.

The curriculum of each programme shall consist of courses grouped under the following categories:

8.5 Category-wise Credit Distribution

Table 5: Category-wise Credit Distribution

Sl. No.	Category	Credit Range*
1	Humanities, Social Sciences and Management Courses (HSM)	12 – 15
2	Basic Science Courses (BSC)	16 – 32
3	Engineering Science Courses (ESC)	17 – 29
4	Professional Core Courses (PCC)	58 – 64
5	Professional Elective Courses (PEC)	9–16
6	Open Elective Courses (OEC) / Multidisciplinary Courses	9 – 12
7	Core Enrichment Courses (CEC) (Project Work, Seminar, Internship, Industrial Training.)	As prescribed in the curriculum

8	Career Development Skill Courses (CDS)	As prescribed in the curriculum
9	Mandatory Non-Credit Courses (MAN)	Non-Credit

*The actual credit distribution may vary across programmes and shall be governed by the curriculum approved by the Academic Council of ACET.

8.6 Description of Course Categories

i. Humanities, Social Sciences and Management Courses (HSM)

These courses include English, Communication Skills, Professional Ethics, Human Values, Entrepreneurship, Economics, Management, and other courses that contribute to the holistic development of students.

ii. Basic Science Courses (BSC)

These courses include Mathematics, Physics, Chemistry, Biology, Environmental Science, Sustainability, and other fundamental sciences that support engineering education.

iii. Engineering Science Courses (ESC)

These courses provide foundational engineering knowledge and may include Engineering Graphics, Engineering Practices, Programming Fundamentals, Basic Electrical and Electronics Engineering, Civil Engineering, Mechanical Engineering, and related subjects.

iv. Professional Core Courses (PCC)

These courses comprise the core subjects of the respective engineering discipline and provide the knowledge and skills essential for professional practice.

v. Professional Elective Courses (PEC)

These courses enable students to gain advanced knowledge in specialized and emerging areas related to their discipline.

vi. Open Elective Courses (OEC)

These courses facilitate multidisciplinary learning by allowing students to choose courses offered by other departments or disciplines.

vii. Core Enrichment Courses (CEC)

These courses include Mini Projects, Micro Project, Project Work, Internships, Industrial Training, Seminars, Field Visits, and other experiential learning activities designed to enhance practical and professional competencies.

viii. Career Development Skill Courses (CDS)

These courses focus on aptitude development, coding skills, communication skills, industry-relevant certifications, placement training, and career readiness.

ix. Mandatory Non-Credit Courses (MAN)

These courses may include Induction Programme, Environmental Science, Constitution of India, Universal Human Values, Indian Knowledge Systems, Professional Ethics, and other courses mandated by statutory bodies or the College. Successful completion of these courses is mandatory for the award of the degree.

8.7 Off-Campus Courses and Transfer of Credits – Achariya College of Engineering Technology

Students of Achariya College of Engineering Technology are permitted to optionally enroll in and complete a maximum of **three off-campus courses** in physical, online, or hybrid mode during their Undergraduate (UG) programme, subject to the approval of the **Curriculum Designing and Restructuring Committee (CDRC)** and the **Principal**. Successful completion of such courses

may be considered in lieu of **Professional Elective (PE)** or **Open Elective (OE)** courses as approved by the CDRC.

8.8 SWAYAM / NPTEL Credit Transfer

Students may enroll in courses offered through **SWAYAM**, **NPTEL**, or other approved online learning platforms. Credit transfer shall be based on the marks obtained and the certificate issued by the respective platform. The number of credits transferred and the corresponding grade mapping shall be as per the regulations of the institution. Grade conversion will be applicable only if the student successfully completes and passes the course according to the guidelines prescribed by the offering agency.

8.9 Credits through Online Courses

All elective courses, including approved online courses, shall carry a maximum of **4 credits**. Students may earn credits towards **Open Elective Courses (OECs)** by completing online courses offered through SWAYAM, NPTEL, MOOC platforms, or other approved agencies at any time between the **Third and Eighth Semesters**, subject to prior approval by the CDRC.

- Credits earned through NPTEL, SWAYAM, MOOC, or equivalent platforms shall be limited to **2 or 4 credits per course**.
- The total credits earned through such online courses shall not exceed **12 credits** during the entire programme.
- Online courses carrying **4 credits, 3+1 credits, 2+2 credits, 3 credits, or 2+1 credits** may be considered as equivalent to one elective course, subject to approval by the CDRC.
- A student may substitute a maximum of **three elective courses** through approved online courses.
- Open Elective Courses shall generally be **interdisciplinary courses** offered by various departments of the institution, preferably not in the sister departments (Example: Students in Computer Science Engineering shall not choose the subjects from Information Technology).

9. Department Code and Course Coding Scheme

9.1 Department Codes

Table 6: Short code for various departments

Code	Department
AD	Artificial Intelligence and Data Science
CS	Computer Science and Engineering
CI	Computer Science and Engineering (IOT Cyber Security with Block Chain Technology)
EC	Electronics and Communication Engineering
RA	Robotics and Automation
EE	Electrical and Electronics Engineering
IT	Information Technology
ME	Mechanical Engineering
SH	Science and Humanities
MA	Mathematics
PH	Physics

CH	Chemistry
EN	ENGLISH
GE	General Engineering

9.2 Course Type Codes

Table 7: Code for Course Types

Course	Type Codes
Code	Course Type
T	Theory
L	Practical / Laboratory
I	Integrated Course
PE	Professional Elective
OE	Open Elective
W	Project Work / Mini Project / Internship/ Industrial Training/ Seminar
E	Career Development Skill Course
H	Honors Course

M	Minor Course
MAN	Mandatory Non-Credit Course
C	Certification Course
N	NPTEL / SWAYAM Credit Course

9.3 Course Code Format

Each course offered by Achariya College of Engineering Technology shall be identified using an **8-character alphanumeric code** in the following format:

[Department Code]– [Course Type] - [Regulation] – [Semester] – [Course Number]

Example:

- **CST26301** – Computer Science and Engineering, Theory Course, Regulation, Semester III, Course Order
- **ECL26701** – Electronics and Communication Engineering, Laboratory, Regulation, Semester VII
- **MEOE2605** - Mechanical Engineering, Course Type, Regulation, Course Number

The detailed structure and numbering pattern may be illustrated in the Course Code Scheme figure of the Academic Regulations.

9.4 Mandatory Induction Programme

All first-year students admitted to Achariya College of Engineering Technology shall undergo a **Mandatory Induction Programme** immediately after admission. The programme is designed to facilitate a smooth transition from school to higher education and to familiarize students with the academic environment, institutional culture, and professional expectations.

The induction programme shall normally extend over **two weeks** and include activities such as:

- Orientation to the institution, departments, laboratories, and campus facilities.
- Physical fitness and wellness activities.
- Creative arts, cultural, and extracurricular activities.
- Personality development and communication skill enhancement.
- Universal Human Values (UHV) sessions.
- Lectures by eminent academicians, industry experts, entrepreneurs, and alumni.
- Community engagement and local area visits.
- Awareness programmes on professional ethics, environmental sustainability, and social responsibility.

9.5 Universal Human Values (UHV)

As part of the induction programme, students shall undergo a foundation module on **Universal Human Values (UHV-I)** to promote ethical behavior, self-awareness, and responsible citizenship.

In addition, a course on **Universal Human Values (UHV-II)** shall be offered to all B.Tech students during one of the semesters between the **First and Fourth Semester**. The course aims to:

- Develop a holistic perspective towards life and professional practice.
- Promote harmony within oneself, family, society, and nature.
- Strengthen self-reflection, ethical decision-making, and social responsibility.
- Enhance understanding of sustainable living and human values in engineering practice.

9.6 Integrated Courses

To strengthen the linkage between theoretical concepts and practical applications, the curriculum may include **Integrated Courses**.

An Integrated Course shall consist of:

- Theory modules covering the prescribed syllabus.
- Laboratory sessions, case studies, simulations, design exercises, or project-based learning activities directly linked to the theory content.
- Continuous assessment of both theoretical understanding and practical competency.

The objective of integrated courses is to enhance experiential learning, problem-solving skills, innovation, and industry readiness among students.

9.7 Elective Courses

Elective courses provide flexibility in learning and enable students to pursue areas of interest beyond the core curriculum. Electives are classified into:

1. **Professional Electives (PE)**
2. **Open Electives (OE)**

9.8 Professional Electives

- i. Professional Elective courses provide advanced knowledge and specialization in the major discipline of study. These courses are offered by the respective parent department.
- ii. Students shall earn the prescribed Professional Elective credits specified in the curriculum during their programme of study, generally from the **Fourth Semester onwards**.
- iii. Professional Elective courses may be grouped into specialization tracks or verticals such as:

- Artificial Intelligence and Machine Learning
- Data Science and Analytics
- Cyber Security
- Internet of Things (IoT)
- Cloud Computing
- Full Stack Development
- Robotics and Automation
- VLSI and Embedded Systems
- Renewable Energy Systems
- Advanced Manufacturing Technologies

The actual verticals offered shall depend on the programme and department.

- Students may choose all Professional Electives from a single specialization track to gain domain expertise or select courses from different tracks based on their academic and career interests.
- The offering of an elective course shall be subject to the availability of qualified faculty, institutional resources, and the minimum number of student (50 % of the class strength or minimum of 30 students opting a course) registrations as determined by the department.

9.9 Open Electives

- Open Elective Courses are interdisciplinary courses offered by departments other than the student's parent department to broaden knowledge and promote multidisciplinary learning.
- Open Electives may be offered from the **Third Semester onwards** as prescribed in the curriculum.

- iii. Students shall satisfy any prerequisite requirements specified for an Open Elective course before enrolment, such as NPTEL, Self Learning Module or any other as instructed.
- iv. Open Elective courses may be selected from disciplines such as:
 - Management and Entrepreneurship
 - Artificial Intelligence Applications
 - Data Analytics
 - Environmental Sustainability
 - Digital Marketing
 - Financial Literacy
 - Design Thinking
 - Intellectual Property Rights
 - Emerging Technologies
 - Professional Communication
- v. The availability of Open Elective courses shall depend on student demand, faculty expertise, and institutional requirements (50 % of the class strength or minimum of 30 students opting a course). The department may revise the list of electives from time to time to align with industry trends and emerging technologies.

These elective provisions are intended to support the academic flexibility, interdisciplinary exposure, and career aspirations of students of Achariya College of Engineering Technology.

10. PROJECT WORK & OTHER COURSES

10.1 Micro and Mini Project

The curriculum shall include **Micro / Mini Project(s)** aimed at fostering innovation, problem-solving ability, teamwork, and application of engineering concepts. Students may undertake Micro / Mini Projects individually or in teams, as prescribed in the curriculum.

The objective of the Micro / Mini Project is to enable students to:

- Apply theoretical knowledge to solve real-world engineering problems.
- Develop hardware and/or software solutions relevant to their discipline.
- Enhance analytical, design, implementation, documentation, and presentation skills.
- Gain exposure to emerging technologies, industry practices, and research methodologies.

The scope, duration, evaluation process, and credit requirements of the Micro / Mini Project shall be as specified by the respective department and approved by the Academic Council.

10.2 Project Work / Capstone Project

Every student shall undertake a **Project Work (Capstone Project)** during the final year of the programme. The project may be carried out individually or in groups as approved by the department.

The Major Project shall provide opportunities for students to:

- Integrate knowledge acquired throughout the programme.
- Address industry, societal, research, entrepreneurial, or interdisciplinary challenges.
- Develop professional competencies in project planning, execution, testing, validation, documentation, and presentation.

Students shall register for the project in the semester(s) specified in the curriculum and complete all requirements prescribed by the department.

10.3 Industry-Sponsored and Research-Based Projects

Students may undertake their Major Project in collaboration with industries, research organizations, startups, government agencies, academic institutions, or other approved organizations, subject to the approval of the Head of the Department.

The following guidelines shall apply:

- i. Students intending to undertake industry-sponsored or research-based projects shall identify the organization and project domain sufficiently in advance and obtain approval from the department.
- ii. A detailed project proposal outlining the objectives, scope, methodology, expected outcomes, and industry/research organization details shall be submitted through the department for approval.
- iii. The project shall be carried out under the joint guidance of:
 - A Faculty Supervisor from the concerned department, and
 - An Industry/Research Mentor from the host organization, wherever applicable.
- iv. The Faculty Supervisor and Industry/Research Mentor shall jointly monitor the progress of the project and ensure that the project objectives and academic requirements are achieved.
- v. Students undertaking projects outside the institution shall comply with the guidelines, schedules, review procedures, and assessment requirements prescribed by the College.
- vi. The evaluation of the project shall be carried out as per the norms approved by the Academic Council and may include project reviews, demonstrations, presentations, reports, publications, prototypes, patents, or other deliverables as applicable.

10.4 Project Evaluation

The assessment of Micro Project, Mini Project and Major Project shall be based on:

- Problem identification and literature survey.
- Design and methodology.
- Technical implementation and innovation.
- Experimental validation and analysis.
- Documentation and report quality.
- Oral presentation, demonstration, and viva-voce.
- Teamwork, professionalism, and overall project outcomes.

The evaluation scheme and weightage shall be as prescribed in the curriculum and approved by the Academic Council.

10.5 Career Development Skills (CDS)

Career Development Skills (CDS) courses are incorporated into the curriculum to enhance students' professional, interpersonal, and career-oriented competencies. These courses aim to prepare students for higher education, entrepreneurship, competitive examinations, and successful careers in industry and society.

10.6 Professional Competency Courses

Professional Competency Courses include Soft Skills, Communication Skills, Aptitude, Foreign Languages, Entrepreneurship, Leadership Skills, and similar courses. These courses are designed to promote the holistic development of students and strengthen their professional and career readiness.

10.7 Certification Courses

Students shall complete certification courses offered by International or reputed organizations, as specified in the curriculum, through the Centre of Excellence.

- The duration of each certification course shall be **40–50 hours**.
- It is mandatory for students to complete **three to five certification courses**
- Credits shall be awarded based on the scope and content of the course, Certain certification courses may be **non-credit mandatory courses**, and such courses shall not be considered for CGPA calculation.

This terminology aligns better with **NEP 2020**, as Career Development Skills encompasses employability, higher studies, entrepreneurship, innovation, and lifelong learning.

10.8 Experiential Learning through Industrial Training and Internship

Students shall undergo Industrial Training, Internship in industries, research laboratories, higher learning institutions, start-ups, or approved organizations for a minimum period of two weeks during their course of study. The internship shall be completed before the end of the Seventh Semester.

- i. Internship may be undertaken for 2, 4, 6, or more weeks as approved by the institution.
- ii. Credits shall be awarded based on the duration and successful completion of the internship.
- iii. Prior approval from the Head of the Department and from the Center of Career Development and Industrial Relation shall be obtained before undertaking the internship.
- iv. Students shall submit an internship report and completion certificate for assessment.

10.9 Industry Connect and Industrial Visits

Every student is encouraged to participate in at least one Industrial Visit during each academic year from the Second Year onwards. The Heads of Departments shall facilitate the necessary arrangements to provide exposure to industrial practices and emerging technologies.

10.10 Sustainable Development Goals (SDGs) and NEP 2020 Initiatives

The Sustainable Development Goals (SDGs) shall be integrated into the curriculum through mandatory courses, elective courses, value-added courses, guest lectures, internships, projects, and extension activities in alignment with NEP 2020.

11. HONOR AND MINOR DEGREE PROGRAMME

11.1 Honor and Minor Degree Programmes

- a. Eligible students may opt for an honors degree in the same discipline of Engineering after the First Year.
- b. A student shall be eligible if he/she has secured a CGPA of 8.0 or above and has no history of arrears.
- c. To earn the Honors Degree, the student shall complete an additional 18–20 credits beyond the prescribed curriculum requirements.
- d. Lateral Entry students may also opt for the Honors programme subject to the prescribed eligibility criteria.
- e. A student may withdraw from the Honors programme at any stage.
- f. Details of Honors courses and credits earned shall be reflected in the Grade Sheets and Consolidated Grade Sheet.
- g. The nomenclature of the degree shall be **B.Tech. (Honors) in XXX**, where XXX denotes the discipline of study.

- h. The Honors Programme in a discipline shall be offered for a batch of students only if a minimum of **five (5) eligible students** opt for it, subject to the availability of adequate faculty and institutional resources.
- i. The CGPA shall be calculated inclusive of both the regular B.Tech. courses and the additional Honors courses successfully completed by the student.

11.2 Minor Degree Programme

- a. Students shall be given an opportunity to pursue a Minor Degree in another Engineering discipline of their choice based on their academic performance and eligibility criteria prescribed by the institution.
- b. A student shall be eligible to register for the Minor Degree Programme after successfully completing the First Year with a **CGPA of 7.5 or above and without any standing arrears**.
- c. The Minor Degree Programme shall be offered for a batch of students only if a minimum of **five (5) eligible students** opt for it, subject to the availability of adequate resources.
- d. To qualify for the award of a Minor Degree, a student shall earn an additional **18–20 credits** beyond the prescribed programme credits through courses offered in the chosen minor discipline.
- e. Students admitted through the Lateral Entry Scheme may also opt for the Minor Degree Programme, subject to the eligibility criteria prescribed by the institution.
- f. The courses offered under the Minor Degree Programme shall provide foundational and interdisciplinary knowledge in the selected discipline.
- g. A student may withdraw from the Minor Degree Programme at any stage. Credits earned up to the date of withdrawal shall be treated as additional credits, subject to applicable regulations.

- h. Details of the Minor Degree courses completed and credits earned shall be reflected in the Grade Sheets and Consolidated Grade Sheet.

The nomenclature of the degree shall be:

B.Tech. in XXX with Minor in YYY where **XXX** denotes the major discipline and **YYY** denotes the minor discipline chosen by the student.

- j. The CGPA shall be calculated in accordance with the regulations approved by the institution for the award of the Minor Degree.

11.3 Academic Bank of Credits (ABC)

The Academic Bank of Credits (ABC) is a digital platform that enables students to accumulate, transfer, and redeem academic credits earned from recognized Higher Educational Institutions (HEIs) in accordance with NEP 2020. Students shall maintain an ABC account for credit storage and transfer. The validity and utilization of credits shall be governed by the guidelines issued by the UGC and the Academic Bank of Credits from time to time.

12. COURSE ENROLMENT AND REGISTRATION

12.1 Course Enrolment and Registration Process

All students admitted to the B.Tech. programme shall register for the courses offered in a semester within the prescribed period, subject to the eligibility requirements specified by the institution.

The list of students enrolled in a semester shall include:

- i. Students who rejoin the programme after a temporary break of study.
- ii. Students who rejoin the programme after being detained due to shortage of attendance or other academic reasons.
- iii. Students who have registered for the prescribed courses and fulfill the requirements of attendance, continuous assessment, and End Semester Examination (ESE).

12.2 Registration for Elective Courses

Open Elective and Professional Elective courses shall be offered as per the curriculum. Students shall register for elective courses during the prescribed registration period in consultation with their Faculty Advisor/Class Advisor and Head of the Department.

12.3 Arrear Course Registration

- i. A student who fails in a course may reappear for the End Semester Examination when conducted, subject to the regulations in force.
- ii. Arrear courses shall be governed by the curriculum and regulations applicable to the student. If a course is revised or withdrawn, the student shall register for and complete the equivalent course prescribed by the institution.
- iii. A student who fails in Major Project, Mini Project, Micro Project, Seminar, Internship, or similar courses shall re-register and successfully complete the course requirements as prescribed.
- iv. Students failing to secure the minimum Continuous Assessment requirements, wherever applicable, shall comply with the provisions prescribed by the institution before becoming eligible for the End Semester Examination.
- v. A student who fails in the End Semester Examination shall reappear for the examination and fulfill the requirements for successful completion of the course.

13. PROCEDURE FOR ASSESSMENT AND AWARD OF MARKS

13.1 Overview of Assessment

- i. The performance of students in each course shall be assessed through **Continuous Assessment Test (CAT)** during the semester and the **End Semester Examination (ESE)** conducted at the end of the semester.

- ii. Every credit course shall be evaluated for a maximum of **100 marks**. The distribution of marks between Continuous Assessment Test and End Semester Examination shall be as prescribed in the curriculum and course structure.
- iii. Theory, Practical, Integrated, Project, Internship, Seminar, and other courses shall be evaluated using appropriate assessment methods approved by the institution.
- iv. Major Project, Mini Project, Micro Project, Internship, Seminar, and similar experiential learning courses shall be evaluated through continuous assessment, report evaluation, presentations, viva-voce examinations, or any combination thereof, as prescribed.
- v. Mandatory Courses, Certification Courses, Value-Added Courses, and Skill Development Courses shall be assessed through continuous assessment, assignments, practical exercises, online assessments, or other evaluation methods approved by the institution.
- vi. The detailed assessment pattern, evaluation criteria, and award of marks for each course shall be specified in the respective course syllabus and academic regulations.

13.2 Assessment of Theory Courses

All Theory Courses shall be evaluated for a maximum of **100 marks**, consisting of **40 marks for Continuous Assessment (CA)** and **60 marks for the End Semester Examination (ESE)**.

13.3 Assignment / Activity

Assignments and activities may include application-oriented exercises, problem-solving tasks, design challenges, case studies, seminars, project-based learning, experiential learning, simulations, role plays, portfolio development, quizzes, or other innovative assessment methods as prescribed by the course instructor.

The detailed assessment schedule and evaluation criteria shall be announced by the course instructor at the beginning of the semester.

13.4 Activities and Experiential Learning

Activities forming part of Continuous Assessment may include:

- Project-Based Learning (PBL)
- Experiential Learning
- Seminars and Technical Presentations
- Case Studies
- Simulation and Role-Playing
- Portfolio Development
- Industry-Based Assignments
- Innovation and Design Challenges
- Other approved learning activities

These activities shall be assessed based on criteria such as understanding of concepts, application of knowledge, innovation, report/article preparation, presentation skills, participation, and overall performance.

13.5 End Semester Examination (ESE)

The End Semester Examination shall be conducted for theory courses at the end of each semester. The duration and maximum marks of the examination shall be as prescribed in the curriculum and examination regulations.

13.6 Question Paper Pattern

The pattern of Continuous Assessment Tests (CAT), Model Examinations, and End Semester Examinations shall be approved by the Board of Studies and Academic Council from time to time.

The Controller of Examinations shall notify the examination schedule and assessment procedures at the beginning of each semester.

13.7 Assessment of Practical Courses

Practical courses shall be evaluated for a maximum of **100 marks**, consisting of **Continuous Assessment** and **End Semester Practical Examination** as prescribed in the curriculum.

The Continuous Assessment may include one or more of the following components:

- Performance in Laboratory Sessions
- Observation and Record Work
- Practical Assignments
- Model Practical Examination
- Viva-Voce
- Attendance
- Mini Projects / Demonstrations

The End Semester Practical Examination shall be conducted by the Institution as per the approved examination regulations. The detailed assessment pattern and weightage shall be specified in the respective course syllabus.

13.8 Continuous Assessment of Practical Courses

The Continuous Assessment (CA) for Practical Courses shall be based on the student's performance throughout the semester and may include:

- Attendance
- Laboratory Performance
- Observation and Record Work
- Viva-Voce
- Practical Assignments
- Model Practical Examination
- Mini Projects and Demonstrations

The weightage of each component shall be as prescribed in the curriculum and course syllabus.

13.9 End Semester Practical Examination

The End Semester Practical Examination shall be conducted for the prescribed duration and evaluated by a panel consisting of Internal and/or External Examiners as per the norms approved by the Institution.

The assessment may include:

- Understanding of Concepts
- Procedure / Algorithm Development
- Experiment or Program Execution
- Observation and Analysis of Results
- Viva-Voce Examination
- Report / Record Evaluation

The detailed evaluation scheme shall be specified in the respective course syllabus.

- End Semester Practical Examination

The distribution of marks and evaluation methodology shall be as specified in the curriculum and approved by the Academic Council from time to time.

Attendance Marks Distribution

Table 8: Attendance Marks Allocations for percentage of attendance

Attendance Percentage	Marks Awarded
95% and above	5
90% and above but below 95%	4
85% and above but below 90%	3

80% and above but below 85%	2
75% and above but below 80%	1
Below 75%	0

13.10 Distribution of Continuous Assessment and End Semester Examination Marks for Practical subjects

Table 9: Attendance Marks Allocations for percentage of attendance

Assessment Component	Marks
Continuous Internal Assessment (Practical)	60
End Semester Practical Evaluation	40

13.11 Break-up of End Semester Practical Evaluation Marks

Table 10: Break-up of End Semester Practical Internal Evaluation Marks

Evaluation Criteria	Marks
Objective	5
Procedure / Algorithm / Design	5
Experiment / Program Execution	10

Result / Output	10
Viva-Voce	10
Total	40

13.12 End Semester Examination Details – Theory

Table 11: End Semester Examination Details – Theory

Particulars	Details
Duration of Examination	3 Hours
Maximum Marks	60

13.13 Question Paper Pattern for CAT – I & CAT – II

Table 12: CAT Question Paper Pattern

Question Type	Number of Questions	Marks per Question	Total Marks
Part A – Short Answer Questions	10	2	20
Part B – Either / Or (Long Answer Questions)	3	10	30
Total	13		50

**For the integrated courses CAT I & CAT II will be conducted as per the theory pattern, CAT III will be conducted as per the Internal Practical pattern*

13.14 Model Examination and End Semester Examination Question Paper Pattern

Table 13: Model & ESE Question Paper Pattern

Question Type	Number of Questions	Marks per Question	Total Marks
Part A – Short Answer Questions	5	2	10
Part B – Either / Or (Long Answer Questions)	5	8	40
Part C – Compulsory Question)	1	10	10
Total	11		60

13.15 Assessment Scheme for Mini Project and Seminar

Table 14: Assessment Scheme for Mini Project & Seminar

S. No.	Component	Marks	Evaluation Method
1	Micro / Mini Project	100	Two Reviews
2	Seminar	100	Two Reviews

Table 15: Three Member Committee for Mini Project & Seminar

S. No.	Member
1	Project Supervisor
2	Project Coordinator
3	Subject Expert nominated by the HoD

13.16 Evaluation Committee

Note: The first and second shall be conducted and evaluated by a three-member committee constituted by the Head of the Department comprising the Supervisor, Coordinator and an Expert. The consolidated marks awarded by the committee shall constitute the final assessment for the Mini Project and Seminar.

13.17 Continuous Assessment Method for Micro Project, Mini Project and Major Project

Table 16: Assessment Criteria for Mini Project

Assessment Criteria	Review – I (Marks)	Review – II (Marks)
Novelty	20	—
Presentation	20	10
Question & Answer / Viva	10	10
Demonstration	—	20

Final Report	-	10
Total Marks	50	50

13.18 End Semester Assessment Method for Micro Project, Mini Project and Major Project

Table 17: End Semester Assessment Criteria for Mini Project

End Semester Evaluation Component	Marks
Novelty	10
Evaluation of Mini Project/ Project Work Report	10
Prototype Model (Physical / Virtual)	10
Presentation / Demonstration	10
Viva-Voce Examination	10
Total End Semester Marks (ESM)	50

Note:

- The End Semester Examination for Micro Project, Mini Project, and Major Project (Final Review) shall be conducted by a panel consisting of one Internal Examiner and one External Examiner.
- Students shall submit a brief report along with the developed hardware/software model before the final review.

- The evaluation report shall be forwarded to the Controller of Examinations through the Head of the Department.

13.19 Continuous Assessment Components for Major Project

Table 18: Continuous Assessment Components for Major Project

Component	Description
Interim Project Report	To be submitted before each project review with the approval of the Supervisor.
Project Review	Conducted periodically to assess progress, methodology, implementation, and outcomes.
Project Report Submission	Final Project Report shall be prepared as per approved guidelines and duly signed by the Supervisor and Head of the Department.

13.20 End Semester Evaluation Components for Major Project

Table 19: End Semester Evaluation Components for Major Project

Evaluation Component	Assessment Focus
Project Report Evaluation	Quality of report, methodology, results, documentation, and outcomes
Demonstration	Working model, implementation, testing, and functionality
Viva-Voce Examination	Understanding of concepts, design decisions, and project outcomes

Presentation	Communication skills and project articulation
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Note: The Major Project carried out during Phase I (VII Semester) and Phase II (VIII Semester) shall be evaluated through both Continuous Assessment (Internal Evaluation) and End Semester Examination (External Evaluation), each carrying 50% weightage. The detailed evaluation rubrics and review schedules shall be notified by the Department from time to time.

13.21 Overall Assessment Split-up (40% CAT & 60% ESE)

Table 20: Overall Assessment Split up – Theory Subjects

Assessment Type	Component	Details	Weightage (%)
Continuous Assessment (CAT)	CAT – I	Internal Test 1	30
	CAT – II	Internal Test 2	
	CAT - III	Internal Test 3	
	Assignments / Activities	Assignments, Seminar, Quiz, etc.	5
	Attendance	Based on attendance percentage	5
	Total CAT		40
End Semester Examination (ESE)	Theory / Practical Exam	Final University Examination	60
	Total ESE		60
Grand Total			100

** In each semester, three assessments are conducted and the best score of two out of three is considers for 30 Marks.*

13.22 Practical Examination Assessment Pattern - Detailed Split-up

Table 21: Practical Examination Assessment Pattern - Detailed Split-up

Assessment Type	Component	Description	Marks / Weightage
Internal Assessment (60%)	Attendance	Based on laboratory attendance percentage	10
	Record / Observation	Regular lab record writing and submission	10
	Model / Mid Practical Test	Internal practical test / model examination	15
	Continuous Performance	Lab performance, experiments completion, discipline	15
	Viva-Voce (Internal)	Oral questioning during lab sessions	10
	Total Internal		60
External Assessment (40%)	Practical Examination	Conduct of experiment in external exam	20
	Record Verification	Checking of lab record during	05
	Viva-Voce	Viva by external/internal	10
	Result / Output	Accuracy, output correctness,	05
	Total External		40
Grand Total			100

13.23 Career Development Skills

- (i) The evaluation of **Career Development Skills** shall be through **internal assessment only (Continuous Assessment)** as per Table 27 given below:

Table 22: Career Development Skills – Internal Assessment Alone

Assessment Component	Marks
Attendance	10
Report / Training Record	40
Presentation / Demo / Skill Test	50
Total	100

- (ii) The faculty in-charge shall assess the student for **100 marks** through report, presentation, demonstration, aptitude training, or skill-based evaluation relevant to career development objectives.
- (iii) The marks obtained in this course shall **not be considered for SGPA/CGPA calculation**, but will be reflected in the grade sheet.
- (iv) If the student's fail's to score minimum of 40% of the Marks in the first attempt, he/she has to reappear the test and has to earn 40% of marks.

13.24 Mandatory Courses

- (i) Mandatory Courses are required to fulfill degree requirements. (ii) Evaluation shall be **internal assessment for 100 marks**. (iii) Faculty in-charge shall evaluate students through **attendance, MCQ test, presentations, activities, quizzes, and assignments**.

- (ii) Students shall be awarded **Pass (P grade)** upon satisfactory completion. (v) These marks shall not be considered for SGPA/CGPA calculation, but will be included in the grade sheet.

Table 23: Assessment Method for Mandatory Courses

Assessment Component	Marks
Attendance	10
MCQ Test	30
Presentation / Activity / Assignment	60
Total	100

13.25 Hackathon Participation & Achievement – Grade Point Criteria

Students participating in recognized Hackathons organized by colleges/institutions, universities, government agencies, industries, professional bodies or reputed organizations shall be awarded Grade Points based on the level of participation and achievement, subject to submission of valid participation/achievement certificates and verification by the designated authority of the Institution.

Important: A student should be awarded only the highest applicable Grade Point for a particular Hackathon, and the same event shall not be claimed under multiple categories.

The following criteria may be adopted for inter-collegiate, university-level, national and international hackathons.

Table 24: Grades Fixation for Hackathon Participation

Sl.No.	Hackathon Achievement / Participation	Grade Point
1	Winners (First place, Second Place, Third Place) Special Jury Award / Best Innovation / Best Solution / Best Project Award at National/International level / Prize in National Level Hack-a-thon Conducted in Government Institutions / Government Organizations / Private University or Colleges in NIRF bandwidth / MNC's, Public Sector Organizations	A+
2	Participation in an International-level Hackathon / Winners in Deemed Universities	A
3	Winners in a National-level / State-level / Inter-collegiate Hackathon	B+
4	Participation in a National-level / State-level / Inter-collegiate Hackathon	B
5	Winner in a Hackathon conducted at College/Institution level	C+
6	Participation in a Hackathon conducted at College/Institution level	C

13.26 Internship Evaluation and Grade Point

The Grade Point for an internship shall be awarded based on the duration of the internship and the category of the host organization, as prescribed in the table given below. The internship shall be relevant to the student's programme of study and shall be undertaken with the prior approval of the Department/Centre for Career Development and Industry Relations / Institution.

The student shall submit the Internship Completion Certificate, Internship Report and other documents prescribed by the Institution. The final evaluation may include the host organization supervisor's assessment, internship report, presentation and viva-voce, as prescribed by the Institution. The maximum Grade Point awarded for an internship shall be 10.0. Internships of less than 15 days shall not be considered for academic credit.

Table 25: Grades Fixation for Internship

S. No.	Internship Duration	Government Institution / National Research Institution / MNC (Offline)	Reputed Industry / MNC	Other Recognized Industry / MSME / Start-up	Maximum Grade Point
1	10–15 days	B	C+	C	7.0
2	16-30 days	B+	B	C+	8.0
3	31–45 days	A	B+	B	9.0
4	45-60 days	A+	A	B+	10

To make the above table unambiguous in the regulations, the categories may be defined as follows:

Table 26: Organization Classification for table 25

Category	Institutions / Organizations Covered
Government Institution / National Research Institution	Central/State Government Departments, Government Universities/Institutions, IITs, NITs, IISc, IISERs, IIITs, National Laboratories, Government R&D Institutions and equivalent premier institutions
Reputed Industry / MNC	Reputed National/Multinational Companies, Corporate Organizations, Major Industries and established R&D/Industrial organizations
Other Recognized Industry / MSME / Start-up	Recognized MSMEs, Start-ups, private companies and other approved organizations having relevance to the student's programme

14 EXAMINATION ELIGIBILITY, WITHDRAWAL AND SPECIAL PROVISIONS (ACET)

Eligibility for End Semester Examination

Students are required to maintain **regular attendance** in all courses, as attendance forms part of Continuous Assessment.

A student shall be permitted to appear for the **End Semester Examination (ESE)** of a course only if the following conditions are satisfied:

14.1 ATTENDANCE REQUIREMENT

14.1.1 Eligibility for end semester examination

- A minimum of **75% attendance** in each course is mandatory for appearing in the End Semester Examination.

- Students having attendance between **60% and less than 75%** may be considered for relaxation under the following conditions:

14.1.2 Medical Grounds

In case of illness, hospitalization, or accident, supported by valid medical certificates issued by a competent medical authority and submitted through the Head of the Department to the Controller of Examinations (CoE) and final approval from the Head of the Institution.

Institutional / Co-curricular Participation Participation in approved activities such as NCC, NSS, sports, or official institutional events with prior permission from the Head of Institution / Dean (Academics) through the Head of the Department.

- Such students shall remit the prescribed **condonation fee (Rs. 5000/-)** along with supporting documents.

14.1.3 Attendance Relaxation Provision

- Students satisfying the above conditions may be granted relaxation from the attendance requirement.
- Upon approval, they shall be permitted to appear for the End Semester Examination of the concerned course.
- All supporting documents must be submitted through proper channel to the Controller of Examinations immediately after rejoining.

14.1.4 Disciplinary Absence

- Periods of suspension due to disciplinary action shall be treated as **absence** and included in attendance calculation.

15 EXAMINATION SPECIAL PROVISIONS AND DISCIPLINARY FRAMEWORK

15.1 Eligibility for Promotion

- A student shall be eligible to move to the next semester only if he/she meets the required attendance criteria for appearing in the End Semester Examination.

15.2 Rejoining Policy

- Students who do not meet the eligibility conditions shall not be promoted to the next semester.
- Such students shall rejoin the same semester in the next academic year.

15.3 Regulation Applicability After Rejoining

- Students rejoining after a break shall be governed by the **current regulations, syllabus, and course structure** applicable at the time of rejoining.

15.4 Complete Withdrawal (Only for NIL Arrear Students)

- Eligible students may apply for **complete withdrawal from End Semester Examinations** for all subjects of a semester as a single unit.
- Such withdrawal is permitted only once during the entire programme.
- Approval from HoD, Dean (Academics), Controller of Examinations, and Head of Institution is mandatory.
- Application must be submitted before the commencement of the End Semester Examination.

15.5 Reappearance of Examination

- Students who withdraw shall reappear for all withdrawn subjects in the **immediate next examination cycle**.

15.6 Academic Recognition

- Students availing complete withdrawal shall remain eligible for **award of distinction** and **university ranks** subject to fulfilling all other academic requirements.

15.7 Scribe Facility

- Students unable to write examinations due to temporary disability, injury, or medical condition may apply for a **scribe facility**.
- Requests must be supported by valid medical certificates issued by a competent medical authority and submitted through the HoD to the Controller of Examinations well in advance.
- The scribe shall not belong to the same academic discipline or qualification level.
- All expenses related to the scribe shall be borne by the student.

15.8 Extra Time Provision

- Differently abled students or students certified with slower writing ability may be granted extra time as follows:

Table 27: Extra Time Provisions for differently abled students

Exam Duration	Extra Time
50 Marks Paper	30 Minutes
100 Marks Paper	45 Minutes

- Approval shall be granted based on valid medical documentation submitted to the Controller of Examinations.

15.9 Conduct of Supplementary Examinations

Supplementary Examinations are additional examinations conducted after the declaration of **End Semester Examination (ESE) results and revaluation results**.

- These examinations shall be conducted in the **III and VII semesters**.
- Students having a maximum of **two standing arrears (overall)** are eligible to appear.
- Eligible students may appear for a maximum of **two theory papers** in each supplementary examination cycle.
- The Students having **any number of arrears, in the VIII semester**, can apply for the supplementary exams.
- The **Continuous Assessment (CAT) marks** of the latest attempt shall be considered for evaluation.

15.10 Regulation of Malpractice Cases in Examinations

- Any student found involved in malpractice or use of unfair means during examinations shall be liable for disciplinary action.
- Such cases shall be referred to the **Examination Discipline Committee (EDC)** constituted by the Controller of Examinations with the approval of the Head of the Institution.
- The committee shall investigate and recommend appropriate punishment as per institutional examination rules.
- Final decision shall be taken by the competent authority based on the committee's recommendations.

15.11 Mitigation of Examination-Related Hardships

Mitigation Examinations are intended for students affected by **unforeseen and genuine circumstances** during examinations that may impact their performance.

Eligible circumstances include:

- Serious illness or medical emergency
- Accident during examination period
- Bereavement in the immediate family
- Such cases shall be examined and recommended by the Head of the Department, Dean (Academics), COE & Head of the Institution.
- Valid documentary evidence shall be submitted for verification.
- Approval shall be granted only for students with **no history of malpractice or disciplinary issues**, subject to BoE approval.

16. CONSOLIDATION OF MARKS AND REQUIREMENTS FOR PASSING THE EXAMINATION

16.1 Consolidation of Marks

The Controller of Examinations shall consolidate the Continuous Internal Assessment (CIA) Marks awarded by the Departments and the marks secured by the students in the End Semester Examination (ESE).

A student shall be declared to have passed a course only if he/she satisfies the minimum requirements prescribed for Internal Assessment, End Semester Examination, and overall aggregate marks.

16.2 Requirement for Passing a Theory Course

A student shall be declared to have successfully passed a theory course if he/she secures:

- Not less than **40% of the marks in Continuous Assessment (Internal Assessment)** and
- Not less than **40% of the marks in the End Semester Examination (ESE)** ; and

- An overall aggregate of **40% or above** considering both Internal Assessment and End Semester Examination marks.

16.3 Requirement for Passing a Practical / Project Course

A student shall be declared to have successfully passed a practical or project-based course if he/she secures:

- Not less than **40% of the marks in Continuous Assessment (Internal Assessment)** ; and
- Not less than **40% of the marks in the End Semester Examination / Viva-Voce Examination**, wherever applicable; and
- An overall aggregate of **40% or above**.

16.4 Requirement for Passing an Integrated Course

A student shall be declared to have successfully passed an integrated course if he/she secures:

- Not less than **40% marks in the Theory component of the End Semester Examination**;
- Not less than **40% marks in the Practical component as prescribed**;
- Not less than **40% marks in Continuous Assessment**; and
- An overall aggregate of **40% or above**.

16.5 Arrear Criteria for Failure in the End-Semester Examination

A student who fails in the End-Semester Examination due to securing less than 40% of the marks prescribed for the End-Semester (External) Examination shall be permitted to reappear for the End-Semester Examination in subsequent attempts. The Internal Assessment marks already secured shall be carried forward and shall remain valid till the end of the course period, subject to the rules and regulations of the Institution. If the student wants to earn more marks in the internal he/ she can reattempt the internal supplementary exam and can boost the marks in the current semester.

If a student **fails to satisfy the minimum Internal Assessment requirement of 40%**, in the subsequent semester the total marks earned in the external will be considered and converted for 100 marks.

16.6 Grievance Redressal Mechanism in Evaluation

16.6.1 Continuous Assessment

Grievances related to Continuous Assessment shall be addressed to the Academic Appeal Committee / Academic Grievance Redressal Committee constituted by the Institution.

16.6.2 End Semester Examination

Grievances related to End Semester Examination results may be redressed through the following provisions:

16.7 Revaluation

Students who are not satisfied with the marks obtained may apply for revaluation of theory courses by submitting the prescribed application form along with the requisite fee **(Rs. 1000/- per course / Subject)** to the Controller of Examinations within the notified period after the publication of results. The decision of the revaluation shall be final and binding.

16.8 Revaluation with Copy of the Answer Script

Students who are not satisfied with the marks obtained may apply for revaluation of theory courses with answer script by submitting the prescribed application form along with the requisite fee **(Rs. 2000/- per course / subject)** to the Controller of Examinations within the notified period after the publication of results. The decision of the revaluation shall be final and binding.

17. LETTER GRADES AND CALCULATION OF SGPA AND CGPA

17.1 Letter Grades and Grade Points

The performance of a student in each course shall be expressed in terms of Letter Grades and Grade Points. The marks secured in each course shall be converted into the corresponding Letter Grade as given below.

Table 28 Grade & Grade Points

Range of Marks (%)	Letter Grade	Grade Point
91 – 100	A+	10
81 – 90	A	9
71 – 80	B+	8
61 – 70	B	7
51 – 60	C+	6
46 – 50	C	5
40 – 45	D	4
Below 40	F	0
Shortage of Attendance (course to be repeated)	FA	0

17.2 Notes on F and FA Grade

1. **F** denotes failure in a course due to not securing the minimum passing requirements.

2. **FA** denotes failure due to shortage of attendance and the student shall re-register for the course as per the regulations.
3. A student obtaining **F** or **FA** grade shall be considered to have failed in the respective course.

17.3 Grade Sheet

After the declaration of results, the Controller of Examinations shall issue a Grade Sheet to every student. The Grade Sheet shall contain the following details:

- a) Name of the Programme and Branch of Study.
- b) Course Code, Course Title, Credits, Marks Secured, Letter Grade and Grade Point obtained in each course registered during the semester.
- c) Semester Grade Point Average (SGPA) for the semester.
- d) Cumulative Grade Point Average (CGPA) for all courses completed up to that semester.

17.4 Calculation of Semester Grade Point Average (SGPA)

The Semester Grade Point Average (SGPA) is the weighted average of the Grade Points earned in all courses registered during a semester.

$$SGPA = \frac{\sum(C_i \times GP_i)}{\sum C_i}$$

Where:

- (C_i) = Credits assigned to the course
- (GP_i) = Grade Point earned in the course

The SGPA shall be rounded off to two decimal places.

17.5 Calculation of Cumulative Grade Point Average (CGPA)

The Cumulative Grade Point Average (CGPA) is the weighted average of Grade Points earned in all courses completed from the first semester onwards.

$$CGPA = \frac{\sum(C_i \times GP_i)}{\sum C_i}$$

Where:

- (C_i) = Credits assigned to the course, considered over all courses completed from the first semester onwards
- (GP_i) = Grade Point earned in the corresponding course

The CGPA shall be rounded off to two decimal places. Courses with **FA** grade shall not be considered for the calculation of SGPA and CGPA until successfully completed.

17.6 Conversion of CGPA into Percentage

The percentage of marks shall be calculated as:

$$\text{Percentage of Marks} = CGPA \times 10$$

For example, a CGPA of 8.20 is equivalent to 82.0%.

17.7 Credit Transfer through SWAYAM / NPTEL / MOOCs

Students may enroll in approved online courses offered through SWAYAM, NPTEL, IITs, IISc, IIMs, NITs, and other recognized institutions, subject to the approval of the Institution.

Note: Only 12-Week and 16-week NPTEL Course with Certificate will be considered as an alternate of subject in the syllabus

17.8 Duration and Credits for Online Courses

Table 29: NPTEL Credits System

Duration of Course (Weeks)	Credits Awarded
16 Weeks	4 Credits
12 Weeks	3 Credits
8 Weeks	2 Credits
4 Weeks	1 Credits

17.9 Mapping of Marks to Grades for Online Courses

The grade awarded for an online course shall be based on the score obtained and the certification requirements prescribed by the offering institution.

Table 32: NPTEL Grading System

Marks (%)	Letter Grade
81 – 100	A+
71 – 80	A
61 – 70	B+
51 – 60	B

40 – 50	C+
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*Note: Applicable only for 1 Credit courses from semester 3-6. **Grade D** can be given if he fails in the NPTEL exams but completed the assignments with the score more than 80%, subject to the condition that he fails due to certain unavoidable situation such as hospitalized, death of the family members, accidents, and other with the approval from the competent authorities. The transfer of credits earned through approved online courses shall be recommended by the Credit Equivalence Committee (CEC) and approved by the competent academic authority.*

17.10 Mandatory Courses

Mandatory courses shall be reflected in the Grade Sheet. However, these courses shall not carry any credits and shall not be considered for the calculation of SGPA or CGPA.

18. AWARD OF CLASS AND RANK IN B.TECH. DEGREE

A student shall be eligible for the award of the B.Tech. Degree on successful completion of all programme requirements and passing all prescribed courses within the maximum period specified in the regulations.

18.1 Classification of the B.Tech. Degree

The B.Tech. Degree shall be classified based on the CGPA secured by the student and the prescribed conditions for completion of the Programme.

18.2 First Class with Distinction

A student shall be declared to have passed in First Class with Distinction if he/she:

- Successfully completes the requirements for the award of the B.Tech. Degree within the prescribed maximum duration of 7 years for Regular students and 6 years for Lateral Entry students;

- Passes all courses pertaining to Semesters III to VIII in the first appearance, within six consecutive semesters (three academic years); and
- Secures a CGPA of 8.50 or above for Semesters III to VIII.

18.3 First Class

A student shall be declared to have passed in First Class if he/she:

- Qualifies for the award of the B.Tech. Degree by passing all the prescribed courses relating to Semesters III to VIII within a maximum period of eight semesters from the commencement of study in the Third Semester; and
- Secures a CGPA of not less than 6.50.

18.4 Second Class

All other students who satisfy the requirements for the award of the B.Tech. Degree, but do not qualify for First Class with Distinction or First Class, shall be declared to have passed in Second Class.

18.5 University Rank and Gold Medal

For the award of University Rank and Gold Medal in each branch of study:

- The CGPA secured from Semesters I to VIII shall alone be considered for Regular students;
- The candidate shall have passed all courses from Semesters I to VIII in the first attempt; and
- Rank Certificates shall be issued to the first ten candidates in each branch of study.

For Lateral Entry students, the corresponding six semesters shall be considered, subject to the applicable University regulations.

18.6 Supplementary Examination

Final year students having arrears in one or two courses only may be permitted to appear for a supplementary examination as per the regulations of the Institution. The class of degree shall be determined based on the final CGPA obtained after successful completion of all Programme requirements.

18.7 Institution Rank and Gold Medal

For the award of Institution Rank and Gold Medal in each Programme/branch:

- Only students who have passed all courses in the first attempt shall be eligible.
- For Regular students, performance from the First to Eighth Semester shall be considered.
- For Lateral Entry students, performance from the Third to Eighth Semester shall be considered.
- The Final CGPA shall be the basis for determining ranks.
- Rank Certificates (Top three rank) shall be awarded to the top-performing students in each Programme / branch as approved by the Institution.

18.8 Honor Degree / Minor Degree

A student shall be eligible for the award of **B.Tech. Degree with Honor / Minor** if he/she:

- Satisfies all the requirements for the award of the B.Tech. Degree.
- Successfully completes the additional credits/courses prescribed under the Honor / Minor Programme.
- Maintains the minimum CGPA and other eligibility requirements prescribed by the Institution.

The additional credits earned under the Honor / Minor Programme shall be over and above the credits required for the regular B.Tech. Degree. Students fulfilling the prescribed requirements

shall be awarded the **B.Tech. Degree with Honor** and for minor as **B.Tech. in XXX with Minor in YYY** where **XXX** denotes the major discipline and **YYY** denotes the minor discipline chosen by the student.

18.9 Classification of Bachelor's Degree

Students who opt for exit after successful completion of the prescribed requirements for the Bachelor's Degree under the Multiple Entry and Exit Scheme shall be awarded the degree in the relevant discipline. The classification of the degree shall be based on the CGPA earned up to the semester of exit as follows:

Table 31: Bachelor's Degree Classification

CGPA	Classification
8.5 and above without history of arrears	First Class with Distinction
6.5 and above	First Class
Below 6.5	Second Class

A student shall be awarded First Class if all papers from the First to the Eighth Semester are cleared within ten consecutive semesters, counted from the semester of first admission. For Lateral Entry students (admitted directly into the second year), the Third Semester is treated as the first semester for this purpose, and such students must clear all papers within eight semesters counted from the Third Semester.

18.10 Re-entry into the B.Tech. Programme

Students who exit the Programme with an Undergraduate Certificate, Undergraduate Diploma, or Bachelor's Degree may be permitted to re-enter the B.Tech. Programme in the same discipline, subject to the regulations of the Institution and the approval of the competent authority. The credits

earned prior to exit may be considered for transfer and continuation of studies, provided the re-entry is made within the period prescribed by the Institution.

The applicability of credit transfer shall be determined based on the curriculum in force at the time of re-entry. The maximum period for completion of the B.Tech. Programme, including the period of discontinuance, shall be as prescribed in the Academic Regulations with respect to the approval from the competent authorities and other statutory bodies.

19 MULTIPLE ENTRY AND EXIT OPTIONS

In accordance with the provisions of the National Education Policy (NEP) 2020 and the guidelines issued by AICTE from time to time, students admitted to the B.Tech. Programme may avail themselves of the Multiple Entry and Exit options subject to the fulfilment of the prescribed academic requirements.

19.1 Exit with Undergraduate Certificate

A student who has successfully earned not less than **25% of the total Programme credits** (approximately 40–43 credits), together with the prescribed proportion of Programme Core Courses, and who has fulfilled the requirements specified by the Institution, may exit the Programme after the First Year and be awarded an **Undergraduate Certificate** in the relevant field. This exit option is not available to students admitted through the Lateral Entry Scheme, who shall not have completed the First Year at the Institution.

19.2 Exit with Undergraduate Diploma

A student who has successfully earned not less than **50% of the total Programme credits** (approximately 80–85 credits), including 50% of the Programme Core Courses, may exit the Programme after the Second Year and be awarded an **Undergraduate Diploma** in the relevant branch of study, provided the student additionally completes **6 credits through a Summer Internship / Apprenticeship of two months' duration**.

19.3 Exit with Bachelor's Degree

A student who has successfully earned not less than **75% of the total Programme credits** (a minimum of approximately 120 credits) after completing at least three years in the Programme, including 100% of the Programme Core Courses, may exit the Programme and be awarded a **Bachelor's Degree** in the relevant discipline, provided the student additionally completes **6 credits through two Summer Internships / Apprenticeships of two months' duration each**, as per the norms approved by the Institution and regulatory authorities.

19.4 Award of B.Tech. Degree

Students who successfully complete all the requirements of the four-year B.Tech. programme, including the prescribed credits, internships, projects, and other academic requirements, shall be awarded the **B.Tech. Degree** in the respective branch of study.

19.5 Semester of Re-entry and Portability

In line with the re-entry provisions above, a student who exits with an Undergraduate Certificate shall ordinarily re-enrol at the **Third Semester**; a student who exits with an Undergraduate Diploma shall ordinarily re-enrol at the **Fifth Semester**; and a student who exits with a Bachelor's Degree shall ordinarily re-enrol at the **Seventh Semester**, subject to the credit-transfer provisions above. A student who has exited with an Undergraduate Certificate, Undergraduate Diploma, or Bachelor's Degree may also choose to complete the B.Tech. Degree at another recognized institution offering the same discipline, subject to the regulations of the receiving institution.

The detailed credit requirements, eligibility conditions, and implementation procedures for multiple entry and exit shall be governed by the regulations approved by the Academic Council and shall be in accordance with AICTE/UGC guidelines issued from time to time.

19.6 Academic Mobility and Credit Transfer

In accordance with the National Education Policy (NEP) 2020 and the Academic Bank of Credits (ABC) framework, students who exit a programme with an Undergraduate Certificate, Undergraduate Diploma, or Bachelor's Degree may continue their higher studies in the same or

related discipline at another recognized institution, subject to the regulations of the receiving institution.

Similarly, students from other recognized institutions may be permitted to join the B.Tech. programme at ACET through the approved credit transfer mechanism, subject to the equivalence of courses, availability of seats, and approval of the competent academic authority.

The transfer and acceptance of credits shall be governed by the Academic Bank of Credits (ABC), UGC/AICTE guidelines, and the regulations of the Institution in force from time to time.

20 TEMPORARY BREAK OF STUDY

A student may be permitted to avail a temporary break of study on valid grounds such as medical reasons, personal exigencies, or other circumstances beyond his/her control, subject to the approval of the Institution.

The following conditions shall apply:

- The student shall submit an application to the Dean (Academics) through the Head of the Department, stating the reasons for the break of study along with supporting documents and parent/guardian consent.
- The application shall be scrutinized and approved by the competent academic authority of the Institution.
- A student granted a break of study shall be permitted to rejoin the programme in the same semester from which he/she discontinued, subject to the prevailing regulations and curriculum requirements.
- The student shall comply with the fee and registration requirements prescribed by the Institution at the time of rejoining.
- The period of break of study shall be included in the maximum duration permitted for completing the programme.

- The total period for completion of the B.Tech. programme shall not exceed **seven years for regular students** and **six years for lateral entry students**, reckoned from the date of initial admission.

20.1 Discontinuation of the Programme

A student may be discontinued from the B.Tech. programme under the following circumstances:

- If the student is found guilty of ragging, misconduct, malpractice, or any act that violates the disciplinary rules and code of conduct of the Institution, and disciplinary action warrants removal from the programme.
- If the student fails to complete the programme within the maximum duration prescribed under the regulations, namely **seven years for regular students** and **six years for lateral entry students**, reckoned from the date of admission.
- If the student voluntarily withdraws from the programme and does not seek readmission within the period permitted under the regulations.

Any exception to the above provisions shall be considered only in extraordinary circumstances and shall be subject to the approval of the competent academic authority of the Institution.

20.2 Discipline and Conduct

Students shall maintain discipline, integrity, and good conduct within the Institution and during all academic, co-curricular, extracurricular, internship, industrial visit, and outreach activities organized by the Institution.

The following acts shall be treated as violations of discipline:

- Disrupting academic, administrative, research, examination, training, placement, cultural, sports, or other authorized activities of the Institution.
- Damaging, misusing, or defacing any property belonging to the Institution, hostel, or any public/private establishment visited as part of academic activities.

- Engaging in intimidation, harassment, bullying, physical assault, discrimination, or any behavior that affects the safety, dignity, or well-being of others.
- Ragging in any form, which is strictly prohibited and shall attract disciplinary action as per the prevailing Government, UGC, AICTE, and Institution regulations.
- Using abusive, offensive, threatening, or discriminatory language either in person or through electronic and social media platforms.
- Involvement in examination malpractice, academic dishonesty, plagiarism, fabrication of records, or submission of false information.
- Unauthorized access, misuse, or sharing of institutional IT resources, digital platforms, login credentials, or confidential information.
- Possession, consumption, distribution, or influence of alcohol, narcotic substances, tobacco products, or other prohibited materials within the campus.
- Possession or use of weapons, explosives, or any hazardous materials within the campus.
- Organizing meetings, demonstrations, or activities within the campus without prior approval from the competent authority.
- Unauthorized occupation of hostel facilities or violation of hostel rules prescribed by the Institution.
- Refusal to comply with lawful instructions issued by faculty members, administrative authorities, or authorized representatives of the Institution.
- Any act that adversely affects the reputation, harmony, safety, or orderly functioning of the Institution.
- Engaging in any unlawful activity, including acts that are contrary to the laws of the land or that threaten public order, safety, and national integrity.

- Any other act of misconduct, indiscipline, or behavior which, in the opinion of the competent authority or the Institutional Discipline Committee, is prejudicial to the interests, reputation, safety, or orderly functioning of the Institution.

Students found guilty of violating the code of discipline and conduct shall be liable for disciplinary action as deemed appropriate by the Institution, including warning, suspension, cancellation of privileges, or removal from the Programme depending upon the severity of the misconduct.

20.3 Disciplinary Action

Any case of indiscipline or misconduct reported against a student shall be examined by the Institutional Discipline Committee or any committee constituted by the Institution for the purpose. After due enquiry, the committee may recommend appropriate disciplinary action depending on the nature and severity of the misconduct.

The disciplinary actions may include one or more of the following:

- Warning or reprimand and intimation to the parent/guardian.
- Imposition of fines or penalties as prescribed by the Institution.
- Suspension from classes, hostel, library, transport, laboratory, or other institutional facilities for a specified period.
- Recovery of damages caused to institutional property.
- Debarment from participating in sports, cultural, technical, club, placement, or other student activities.
- Removal from positions of responsibility held in academic, co-curricular, extracurricular, or student bodies.
- Suspension or withdrawal of scholarships, concessions, awards, or other institutional benefits.
- Debarment from appearing for examinations or academic activities, wherever applicable.

- Expulsion from the hostel or, in serious cases, from the Institution.
- The decision of the competent authority shall be final and binding on the student.

20.4 Examination Malpractice

The student shall be given an opportunity to present their explanation before the designated committee. Based on the findings of the enquiry, suitable action will be taken as per the approved norms of the Institution. In cases of malpractice in a particular subject examination, the result for that subject alone will be withheld until the committee is convened and the student submits an apology. The student will be required to reappear for the same subject as an arrear in the following semester. This shall constitute the full extent of the punishment, taking the student's future into consideration.

20.5 Identity Card

Every student admitted to the Institution shall be issued an Identity Card. Students shall carry and produce the Identity Card whenever required by the Institution and shall wear/display it while present on the campus or while using Institution transport facilities. Issue of duplication of the Identity card shall be requested by the student on or before the day of exam by paying fine at the administrative office through controller of examinations.

21 ACADEMIC CALENDAR

The Institution shall prepare an Academic Calendar for each semester, specifying the schedule for academic and related activities. The Academic Calendar shall be approved by the competent academic authority and communicated to students and faculty before the commencement of the semester.

The Academic Calendar shall normally include:

- Commencement and completion of classes
- Course registration and add/drop schedules
- Continuous assessment tests and assignments

- Practical examinations and End Semester Examinations
- Publication of results
- Internship, project, and training activities
- Co-curricular and extracurricular activities
- Academic review meetings and quality assurance activities
- Holidays and vacation periods

The B.Tech. programme shall normally operate on a semester pattern with two semesters in an academic year. Each semester shall consist of approximately **90 to 100 working days**, including instructional, assessment, and examination periods.

The duration of a semester shall generally provide adequate instructional hours to satisfy the credit requirements prescribed for the programme.

All academic departments, centres, and student bodies shall adhere to the Academic Calendar. Academic activities shall be given priority, and co-curricular, extracurricular, placement, and other events shall be scheduled in a manner that does not adversely affect the conduct of regular classes, assessments, and examinations.

22. ACADEMIC GOVERNANCE AND COMMITTEES

22.1 Academic Council

Functions:

- Approve academic regulations, curriculum, and syllabi of all programmes.
- Review and approve modifications in courses, credits, and assessment patterns.
- Recommend introduction of new programmes, specializations, and value-added courses.
- Monitor academic standards and quality of education.

- Advise the Governing Body on academic matters.

22.2 Board of Studies

Functions:

- Design and review curriculum and syllabi periodically.
- Recommend new courses based on industry and societal needs.
- Suggest improvements in teaching-learning and assessment methods.
- Review Programme Outcomes (POs), Programme Educational Objectives (PEOs), and Course Outcomes (COs).
- Recommend curriculum revisions to the Academic Council.

22.3 Curriculum Development Committee

Functions:

- Periodically review and revise curriculum structure.
- Ensure alignment with NEP, OBE, AICTE, and accreditation requirements.
- Recommend innovative teaching and learning methodologies.
- Incorporate emerging technologies, industry trends, and multidisciplinary learning.
- Facilitate curriculum benchmarking with leading institutions.

22.4 Standing Committee

Functions:

- Address urgent academic matters between Academic Council meetings.
- Review academic performance and progression of students.

- Recommend actions on academic issues requiring immediate attention.
- Implement decisions approved by the Academic Council.

22.5 Academic Grievance Redressal Committee

Functions:

- Receive and examine academic grievances from students.
- Address issues related to assessment, attendance, and evaluation.
- Ensure transparency and fairness in academic processes.
- Recommend corrective measures wherever necessary.

22.6 Department Advisory Committee (DAC)

The Department Advisory Committee (DAC) shall support the academic development and continuous improvement of the Department.

Members

- Head of the Department – Chairperson
- Two senior faculty members
- One Industry Representative
- One Academic Expert
- One Alumnus
- One Parent Representative
- One Student Representative
- Programme Coordinator – Member Secretary

Tenure

The term of the nominated members shall be three years.

Meeting Frequency

The Committee shall meet at least twice in an academic year.

Responsibilities

- a) Review curriculum implementation and suggest improvements.
- b) Monitor attainment of COs, POs, and PEOs.
- c) Recommend innovative teaching, learning, and assessment practices.
- d) Strengthen industry interaction, internships, and training activities.
- e) Review stakeholder feedback and recommend corrective measures.
- f) Promote academic excellence, research, innovation, and continuous quality improvement within the Department.

22.7 Board of Examinations (BoE)

The Board of Examinations shall oversee all matters relating to examinations, assessment, and evaluation.

Members

- Principal – Chairperson
- Dean (Academics)
- Dean (IQAC)
- Dean (R&D)
- Controller of Examinations – Member Secretary
- Senior Faculty Members nominated by the Principal
- External Expert

Meetings

The Board shall meet at least once in a semester or as and when required.

Responsibilities

- Plan and monitor the conduct of examinations.
- Ensure confidentiality, transparency, and fairness in the evaluation process.
- Approve examination schedules, result processing, and publication of results.
- Recommend examination reforms and quality enhancement measures.
- Address matters related to examination discipline and malpractice.

22.8 Examination Grievance Committee (EGC)

The Examination Grievance Committee shall examine complaints and grievances related to examinations and evaluation.

Members

- Principal – Chairperson
- Controller of Examinations – Member Secretary
- Dean (Academics)
- Dean (IQAC)
- Dean (R&D)
- Concerned Head of the Department
- Faculty Members nominated by the Principal

Meetings

The Committee shall be convened whenever examination-related grievances arise.

Responsibilities

- a) Investigate cases of examination malpractice and misconduct.
- b) Examine grievances related to evaluation and examination procedures.
- c) Review cases of plagiarism and academic dishonesty.
- d) Recommend appropriate corrective and disciplinary actions.
- e) Submit findings and recommendations to the competent authority.

22.9 Department Academic Review Committee (DARC)

The Department Academic Review Committee shall monitor academic quality and continuous improvement within the Department.

Members

- Head of the Department – Chairperson
- Faculty Representatives nominated by the HoD
- Programme Coordinator – Member Secretary

Meetings

The Committee shall meet at least twice in a semester.

Responsibilities

- a) Review curriculum delivery and academic progress.
- b) Monitor student performance and attainment of Course Outcomes (COs) and Programme Outcomes (POs).

- c) Review student feedback and recommend corrective measures.
- d) Suggest innovative teaching, learning, and assessment practices.
- e) Recommend curriculum improvements, electives, and skill-based courses.
- f) Promote academic quality, research activities, and industry interaction within the Department.

22.10 Programme Academic Coordinator (PAC)

The Head of the Department shall nominate a faculty member as the Programme Academic Coordinator (PAC) to coordinate academic activities of the Department.

Responsibilities

- a) Coordinate curriculum implementation, course registration, timetable preparation, and academic scheduling.
- b) Organize Board of Studies and other academic meetings as required.
- c) Monitor course delivery, attendance, and academic progress of students.
- d) Support academic audits, accreditation activities, and quality initiatives.
- e) Maintain academic records and submit reports to the Dean (Academics).
- f) Coordinate with faculty members and academic committees for effective implementation of academic regulations.

22.11 Department Evaluation Coordinator (DEC)

The Head of the Department shall nominate a faculty member as the Department Evaluation Coordinator (DEC) to monitor assessment and outcome attainment activities.

Responsibilities

- a) Coordinate student, alumni, employer, and stakeholder feedback processes.

- b) Monitor assessment practices and course outcome attainment.
- c) Evaluate Programme Outcomes (POs) and Programme Educational Objectives (PEOs).
- d) Maintain assessment and accreditation-related records.
- e) Support departmental quality assurance and continuous improvement activities.

22.12 Class Advisor

Each class shall be assigned a Faculty Advisor by the Head of the Department to guide students throughout their Programme of study.

Responsibilities

- a) Monitor the academic progress, attendance, and overall development of students.
- b) Counsel and mentor students on academic and personal matters.
- c) Maintain student records and academic performance details.
- d) Act as a liaison between students, parents, faculty members, and the Department.
- e) Encourage student participation in academic, co-curricular, and professional development activities.

22.13 Class Committee Meeting

A Class Committee shall be constituted for each class to facilitate effective interaction between students and faculty members and to improve the teaching-learning process.

Members

- Faculty Advisor – Chairperson
- Course Instructors handling the class
- Student Representatives nominated from the class

Meetings

The Class Committee shall meet at least two times during a semester or as and when required.

Responsibilities

- Review the progress of course delivery and syllabus coverage.
- Discuss academic performance and learning difficulties faced by students.
- Review feedback on teaching-learning processes and laboratory facilities.
- Identify slow learners and recommend suitable academic support measures.
- Promote effective communication between students and faculty members.
- Recommend measures for improving academic quality and student engagement.
- The minutes of each meeting shall be recorded and submitted to the Head of the Department for appropriate action.

22.14 Mentor Mentee System

Mentor-Mentee System in our college assigns a faculty mentor to a group of 15-20 students. The mentor guides students in academics, career planning, and personal issues, ensuring holistic development and regular progress tracking. A proper counselling record is maintained from First year Onwards till the completion of the degree programme.

23. REVISION OF REGULATIONS AND CURRICULUM

The Institution may review and revise the Academic Regulations, Curriculum, Course Structure, and Syllabi periodically to ensure academic relevance, quality, and compliance with statutory requirements. Such revisions shall be approved by the competent academic authorities and implemented as notified by the Institution over every academic year, if necessary, in between semesters.