



Excellence in Higher Education

AKSHAYA

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recognized by UGC and Affiliated to Anna University)

Accredited by NAAC | Accredited by NBA : UG programmes of CSE, ECE & CIVIL

Kinathukadavu, Coimbatore-642109. www.acetcbe.edu.in

AN AUTONOMOUS INSTITUTION



ACADEMIC REGULATIONS 2026

UNDERGRADUATE PROGRAMMES (UG)

B.E. / B.Tech. Programmes (Full-Time)

*Applicable to the students admitted in B.E. / B.Tech. Programmes,
from the Academic Year 2026 - 2027*

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1. Preamble

This regulation hereunder are subject to amendments decided by the Academic Council of the Institution from time to time. These regulations shall be called as ACET 2026.

2. Scope

- 2.1. The regulations provided herein shall apply to the students admitted in the Undergraduate, B.E. / B.Tech. Programmes, offered in Akshaya College of Engineering and Technology from the Academic year 2026 - 2027.
- 2.2. This regulation is quite comprehensive and includes definitions of key terms, critical concepts, methods of calculation, roles of various committees, evaluation systems and other academic processes.

3. Definitions

- 3.1. ‘**University**’ means ‘ANNA UNIVERSITY, CHENNAI’.
- 3.2. ‘**Choice-Based Credit System (CBCS)**’ is a flexible system of learning that permits students to
 - a) learn at their convenient pace.
 - b) choose courses from a wide range of elective courses offered by the departments.
 - c) adopt an inter / multi-disciplinary approach in learning and
 - d) make the best use of the expertise of available faculty.
- 3.3. ‘**Programme**’ means Degree Programme (i.e) B.E. / B.Tech. Degree Programme.
- 3.4. ‘**Discipline**’ means Branch of B.E. / B.Tech. Degree Programme, like Civil Engineering, Mechatronics Engineering, etc.
- 3.5. ‘**Semester**’ means a term of study consisting of a minimum of 90 working days (including examinations), generally with seven ‘CONTACT HOURS’ per day. The Semester scheduled between July / August and November / December shall be called ‘Odd Semester’ (I, III, V, VII), and that scheduled between December / January and April / May shall be called ‘Even Semester’ (II, IV, VI, VIII).
- 3.6. ‘**Course**’ denotes a Theory / Laboratory integrated theory / Laboratory subject that is offered in a given semester of the Programme.

- 3.7. **‘Contact Hours’** means the duration of Lecture, Tutorial, Practical or Project Work, as applicable.
- 3.8. **‘Credit’** means the weightage assigned to a particular course based on the contact hours given in the prescribed syllabus. One credit is allocated to 15 contact hours for a theory course and 30 contact hours for a practical course.
- 3.9. **Continuous Assessment** means evaluation of the students’ progress and performance in a course during a semester through various activities such as Assignments, Solution to application-oriented problems using software, Multiple Choice questions, Internal Examinations, Project, Models, Flipped Class, Seminar, Group Activity, Report Writing, Assignments, Quizzes, Presentations, Practical Works, Case Studies, Mini Project, Solving GATE questions, Capstone Project, Technology enabled services to community, etc. Importantly, students shall complete all activities prescribed in the syllabus of the respective course to receive internal marks.
- 3.10. **End Semester Examination** means an examination conducted at the end of the semester for a course to assess the student’s overall learning outcomes.
- 3.11. **‘Faculty’** means a group of allied Programmes.
- 3.12. **“Bonafide Student”** means the student who is enrolled, joined and on-roll in an Undergraduate Programme.
- 3.13. **‘Head of the Department’** means Head of the Department concerned, offering the programme.
- 3.14. **‘Head of the Institution’** means the Principal of the Institution.
- 3.15. **‘Programme Coordinator’** means the coordinator of the programme concerned. He/she acts as an interface between the programme and key stakeholders, students, faculty, and employers. He/She is responsible for planning the academic activities of the programme along with the course coordinator(s) and the HOD. He/She also prepares, evaluates and analyses the attainment of the programme outcomes along with the Programme Advisory Committee
- 3.16. **‘Disciplinary Committee’** means the committee constituted by the Head of the Institution to look after students’ discipline.

3.17. ‘Institute Academic Affairs Committee’ means the committee constituted by the Head of the Institution to look after academic and development activities of the Institute.

3.18. ‘Chairperson’ means the Head of the Faculty.

3.19. ‘Controller of Examinations’ means the Officer of the Institution responsible for all the examination-related activities.

3.20. ‘Academic Council’ means the principal academic body of the Institution and has control and general regulation of teaching and examination in the Institution and is responsible for the maintenance of the academic standards thereon.

4. Admissions

Eligibility for admission to the B.E./B.Tech. degree programme is subject to the conditions stipulated by the University and the Government of Tamil Nadu.

5. Programme Structure

5.1. Curriculum

Every programme has a specific structure, known as the ‘Curriculum’, which prescribes all details of the courses for the programme.

5.2. Programme Duration

- (i). Duration of the programme is FOUR years (Eight Semesters) for a student admitted to a programme with eligibility criteria as prescribed by the University and Government of Tamil Nadu regulations. The student shall successfully complete all the requirements as per the curriculum and regulations of the programme within the above-said duration of ‘FOUR’ years.
- (ii). Duration of the programme is THREE years (Six Semesters) for a student admitted directly to second year (Lateral entry) with Diploma qualification as prescribed by the University and Government of Tamil Nadu. The student shall successfully complete all the requirements as per the curriculum and regulations of the programme within the above-said duration of ‘THREE’ years.
- (iii). The above-mentioned period in Clause 5.2 (i) & Clause 5.2 (ii) shall be extended for ‘ONE’ more year to a student who is permitted to avail the

authorised break of study or opt for dropping of courses, as per the regulations.

- (iv). ‘Programme Completion’ means that a student shall undergo all the courses as prescribed in the respective curriculum and become eligible for appearing in the end semester examination of all the courses within the period as given in Clauses 5.2 [(i), (ii) & (iii)].
- (v). After programme completion, if there are any arrear course(s), a student shall be permitted to successfully complete the same within ‘SEVEN’ years and ‘SIX’ years. This maximum duration for successful completion shall be reckoned from the commencement of the first semester of the programme.
- (vi). In case of a student prevented from appearing in the end semester examination in all the courses of a semester due to shortage of attendance, the period of prevention shall be treated as a break in the programme. In such a case, total duration for completing the programme including all such prevention periods shall not exceed the above-said ‘SEVEN’ years and ‘SIX’ years.

5.3. Course Categories

Every B.E. / B. Tech. Programme will have a curriculum consisting of theory and practical courses, with prescribed syllabi as categorized below:

- I. Basic Science (BS) include courses such as Mathematics, Physics and Chemistry.
- II. Humanities (HUM) include courses such as Language, Management, Heritage, Life Skills, Entrepreneurship, Sustainability and Physical Education.
- III. Engineering Science (ES) are the core courses relevant to General (G), Programme Core (PC), Programme Elective (PE) & Emerging Technology (ET).
 - Foundational Courses that are intended to provide students with a broad-based understanding of engineering principles and concepts are classified under the General (G) category.
 - Courses that are relevant to the respective discipline are classified

under Programme Core (PC) category.

- Courses that can be chosen from a larger pool and are very specific/specialised/advanced/supportive to the discipline are classified under the Programme Elective (PE) category.
- Courses on the latest advancements in various fields of engineering and technology are classified under the Emerging Technology (ET) category.

IV. Open Elective (OE) are elective courses, chosen from other disciplines, with an intention to expose the students to interdisciplinary/multidisciplinary/trans disciplinary fields.

VI. Project Work (PW) include mini-project and project work

V. Self Learning (SL) is a course to be selected by the students, allowing them to interact with a global network of faculty, peers, and industry experts from anywhere in the world, which facilitates developing an aptitude for lifelong learning.

VI. Skill Development (SD) are the courses designed to enhance specific abilities and competencies of the students in academic and professional contexts. It includes internships, soft skills development/business and managerial communications / quantitative and reasoning skills/ problem solving courses, etc.

VII. Industry Oriented Courses (IOC), which are offered to allow students to expand their knowledge and skills in niche areas and meet the ever-changing requirements arising in the relevant industries from time to time, are classified under the Skill Development (SD) category.

VIII. Value Added Courses (VAC) are the courses not prescribed in the respective curriculum, but are offered to the students to provide additional value to the programme, for enhancing the knowledge and skills of the student. Completion of these course(s) is/are not mandatory for successful completion of the programme.

IX. Off Campus (OC) Courses are the courses that can be undertaken by the student, offered by other institutions/firms.

X. Induction Programme (IP): All newly admitted students shall undergo a mandatory Induction Programme immediately after admission. The programme familiarises students with the institution's academic environment, campus facilities, rules and regulations, student support services, and code of conduct to ensure a smooth transition into higher education

XI. AICTE Activity Point Programme: Every student is required to earn activity points by performing community service and allied activities, in addition to earning the required academic credits. Regular students admitted to the 4-year degree programme must earn a minimum of 100 activity points. Students entering the 4-year degree programme through lateral entry must earn a minimum of 80 activity points. Three hours of participation equals one activity point. From the 2nd semester (3rd semester for lateral entry) to the 6th semester, students must earn 20 activity points every semester by performing activities during weekends and/or holidays.

5.4. Medium of Instruction

Medium of Instruction for all the B.E., / B. Tech. programmes is 'English'.

5.5 Assignment of Credits

Each course is assigned a certain number of credits based on Table 1.

Table 1 – Credits for Contact Hour(s)

Contact Hour	Credits
1 Lecture Hour/week	1
2 Tutorial Hour/week	1
Two practical periods/week (Laboratory course, project work, etc.)	1
Industrial training / Internship for every 'TWO WEEKS' duration	1
'SWAYAM / NPTEL' courses for every 'FOUR WEEKS' duration.	1

5.6 ONE credit is assigned to Minimum Credits: The minimum number of credits to be earned through successful completion of the courses of study in the respective branch by a student to qualify for the award of degree is provided in Table 2

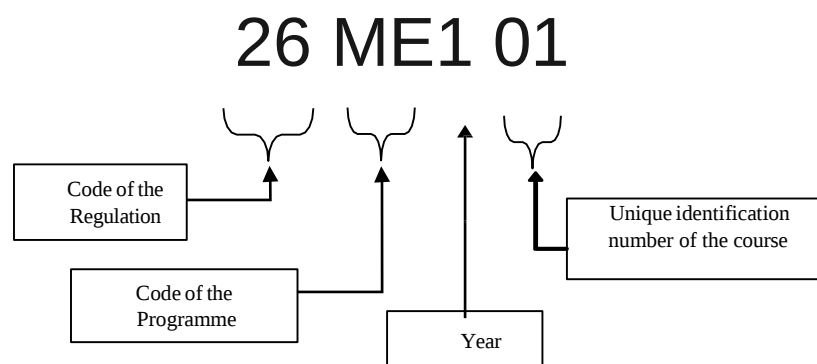
Table 2 Minimum Credits to be Earned for the Award of Degree

Programme	Minimum Number of Credits to be Earned for the Award of Degree	
	For entry at First Semester	For Lateral Entry at Third Semester
B.E. Civil Engineering	166	118
B.E. Computer Science and Engineering	165	121
B.E. Computer Science and Engineering (Cyber Security)	165	121
B.E. Electronics and Communication Engineering	163	121
B.E. Electrical and Electronics Engineering	166	117
B.E. Mechanical Engineering	165	118
B.E. Mechatronics Engineering	168	119
B.Tech. Artificial Intelligence and Data Science	165	117
B.Tech Computer Science and Business Systems	165	121

5.7 Course Code

Each course offered by a department under Engineering Science - Programme Core ES (PC) category is assigned with a course code consisting of two alphabets and five numerals. First two numerals denote the code of the Regulation. Next two alphabets denote the code of the Programme. Third numeral denotes 'Year' and last two numerals denotes the unique identification number of the course.

- For example, in B.E., Mechanical Engineering programme, a particular ES (PC) offered in the first semester is denoted as



6. Induction Programme

The students shall undergo a mandatory ‘FIVE DAY’ induction programme comprising of lectures by eminent people, visits to various departments and ice-breaking events within department / branch immediately after getting admitted in the respective Institution.

Induction Programme shall be conducted by the respective Head of the Institution, aimed at offering the incoming students, an interface to understand and interact with the diverse student community in the respective Institute. The objectives of this induction programme include:

- Welcoming and orienting the new students.
- Guiding the new students about life at respective Institute and its activities, college fests, etc.
- Providing academic guidance to the students.
- Enforcing the anti-ragging rule.

On the whole, the Induction Programme aims to provide the incoming students with a cordial environment to make their transition to the Higher Education system as smooth as possible.

7. Academic Calendar

The duration of all academic activities including those of course registration, first and the last days of classes, examinations, supplementary examinations and vacation are published in the Academic Calendar every semester. The academic calendar for each semester shall be available in the ACET website.

8. Mentoring & Statutory Support for Students

8.1. Faculty Advisor

Each Department of the ACET shall operate in a system with faculty advisors, where a faculty member is assigned to look after the general welfare of a set of students, nominally 30 to 40 students. The faculty advisors help to academic matters, and, if need be, in personal matters also. Students are expected to consult the Faculty Advisor on any matter relating to their academic performance and the courses they may take in various semesters.

The following are some of the roles and responsibilities of a faculty advisor:

- Discuss what the student already knows about the Institution system and give the students relevant information, especially in the beginning of the student's academic programme.
- Review courses already taken and those offered in the upcoming semester.
- Serve as a guide to the students in their course selection.
- Serve as a liaison between students and course instructors on many academic matters including learning disabilities, language barriers, etc.
- Review students' academic progress at least once a semester.
- Identify cases where the students' performance is deteriorating. Discuss with the student and suggest avenues for improvement / support.
- Provide the details about scholarship, placement, co-curricular and extra-curricular activities of the students.
- Coordinate with other academic bodies, if needed.

8.2. Student Grievances and redressal Committee

ACET constituted a 'Student Grievance and redressal Committee' under the Chairmanship of Head of the Institution. Committee comprises the following:

1. Head of the Institute – Chairperson
2. Faculty Representatives – Three faculty members in the cadre of Professor / Associate Professor from different departments and among them one shall be a woman faculty member.
3. Student Representatives – Two student representatives preferably from final year or third year students, and one shall be a girl student.
4. Member Secretary – A faculty member nominated by the Head of the Institution to coordinate the Committee.

Students shall approach this committee in the event of academic as well as non-academic grievances. This committee shall be constituted by the ACET Head of the Institution and the tenure of the faculty representatives and member secretary shall be for a period of one academic year.

8.3. Guidance & Counselling Cell

ACET have a dedicated 'Guidance and Counselling' unit constituted by the Head of the Institution. This cell comprises of psychological counsellors, faculty

representatives including the faculty advisor and student representatives. This cell shall help and offer advice in all kinds of matters.

8.4. Prevention of Sexual Harassment through Internal Complaint Committee

ICC is established to ensure a safe and secure working / studying environment for Girls and Women in the institute. More information about this can be accessed at the following link: <https://www.acetcbe.edu.in/clubs-and-activities/internal-complaint-committee-icc/>

8.5. SC / ST Cell

In ACET a separate cell is functioning to safeguard the rights and privileges of the students, belonging to SC / ST category. This cell also informs the students about the various scholarships and fellowships and encourages them to apply for relevant ones. More information about this cell can be accessed at the following link: <https://www.acetcbe.edu.in/clubs-and-activities/sc-st-committee/>

8.6 Institute Academic Affairs Committee

- (i). The Institute Academic Affairs Committee (IAAC) shall function under the Chairpersonship of Head of the Institution. The composition shall be as follows;
 - Head of the Institute – Chairperson
 - Faculty Representatives – All the Heads of the Departments.
 - Student Representatives – Two student representatives from each year, and one shall be a girl student.
 - Member Secretary – A faculty member in the cadre of Professor / Associate Professor to be nominated by the Head of the Institution.
- (ii). The first meeting of IAAC shall be conducted within ‘SEVEN’ working days from the commencement of the academic session. The second IAAC meeting shall be conducted after the first assessment period, and the third meeting shall be conducted within ‘TEN’ working days from the last date of the academic session.
- (iii). Major responsibilities of IAAC include:
 - a) Addressing difficulties experienced by students in the classroom and in the laboratories, if any.

- b) Analyzing the academic performance of the students after each assessment test and finding ways and means of improving the performance of the students.
- c) Minutes of the Meeting shall be prepared and recorded.
- d) Communication of minutes of each meeting to the faculty members, students and other stakeholders.
- e) The IAAC shall ensure the highest standards of academic integrity and adopt utmost transparency.
- f) Identification of areas for academic support to the students and recommend remedial measures.
- g) Any Points requiring action from the Institution shall be brought to the notice of the Head of the Institution, through the respective Faculty, for necessary action.

9. Class Timings

Classes are scheduled between 08:50 AM and 04:00 PM, with necessary recesses and a lunch break. Additional classes will be scheduled in the morning and evening hours, at the convenience of the Course Instructor, for students opting for Honours/Minor Programmes. Regular classes are scheduled 5 days a week, from Monday to Friday. Course instructors may also schedule additional classes/exams/activities with prior approval from the respective Head of the Institute.

10. Registration of Courses

- 10.1.** Each student admitted is required to register before the commencement of each semester to undergo the courses during that semester as per the academic calendar. Registration is an important part of the academic system to ensure the student's name is on the roll list.
- 10.2.** Registration of courses shall be only through the web-based system within the prescribed dates as per the Academic Calendar. Submitted registrations will be considered auto-approved; therefore, students are advised to complete the registration process carefully. The student is responsible for completing the registration process on time and shall approach the Head of the Department/Head of the Institute concerned for any clarifications.

- 10.3.** A student shall not re-register for the courses which are successfully completed by the student, for any reason(s) whatsoever.
- 10.4.** Students shall register for courses in a semester, subject to the maximum credit limit of 36 per semester, which includes courses registered for Honours / Minor Degree programmes & Shortage of Attendance.
- 10.5** Students shall add or drop courses using the online registration system during the period specified for this purpose in the Academic Calendar. The Head of the Institution concerned shall process each add/drop request only after considering necessary prerequisites and other conditions (if any). Any drop / add of courses shall be communicated to the ‘Office of the Controller of Examinations’ within 10 working days from the commencement of the academic session. Under any circumstances, drop/add of courses in the registration process shall not be entertained after 10 working days from the commencement of the academic session. The following rules shall be adhered to for add/drop of course(s).
- (i). Advancement of courses with prior approval of the respective Head of the Institute shall be completed by a student only before the start of every semester. A particular student shall register for these courses.
 - (ii). Dropping of a course can be done within 7 working days from the start of the academic session, and under any circumstances, dropping of a course shall not be allowed after 7 working days.
- 10.5.** If PE and OE courses are not successfully completed by a student in a particular semester, the student shall be permitted to opt for alternate course(s) under these categories in the subsequent semester(s).
- 10.6.** A student can choose all the PE Courses either from one of the Streams or a combination of courses from more than one Stream in a semester. A minimum registration of 15 students is required to offer a PE course and an OE course. However, this minimum registration is not applicable for offering courses under B.E. / B. Tech. (Hons) and B.E. / B. Tech. Minor Degree.
- 10.7.** PE Courses shall be selected in the specialised groups given as Streams. Students shall choose the courses from various Streams as specified in the respective curriculum.

10.8. Students shall be permitted to register additional courses over and above the courses prescribed in the respective curriculum, under PC / PE / OE category in any programme with the prior permission of the Head of the Institution. The credits earned shall be printed in the grade sheet and shall not be considered for the computation of CGPA.

10.9. Value-Added (VAC) Course(s)

- (i). Students have the option of registering for Value Added Courses (VAC) and the credits earned after successful completion of VAC shall be featured in the Grade sheet. However, credits earned (if any) will not be considered in computing CGPA. Students may also take these courses offered in other Departments, but only with the permission of the Head of the concerned Institution.
- (ii). Syllabus content, timetable and faculty for conduct of VAC shall be placed before the Departmental Advisory Committee (DAC) for making recommendations. DAC shall be constituted by the Head of the Department, consisting of,
 - 1. Head of the Department concerned
 - 2. Faculty Members from the department
 - 3. Industry Expert
 - 4. Academic Expert
 - 5. Alumni
 - 6. Student Members
- (iii). The recommendations of DAC shall be sent for approval of the institution and then sent to ‘The Office of Controller of Examinations’, within 30 working days from the commencement of a semester for offering VAC in the subsequent academic semester. Once approved by the CoE, the VAC shall be notified on the ACET website, and these courses can also be offered by other Departments of the respective Institute. Post-facto approval shall not be granted by the CoE, under any circumstances.
- (iv). The result(s) of VAC shall be printed in the grade sheet only upon successful completion of the course. However, the credits earned shall not be considered for CGPA computation.

10.10. Off Campus (OC) Course(s)

- (i). Student shall have the option of registering for courses in physical / online / hybrid mode with other institutes or online platforms in a semester (except VIII semester), with prior permission from the Office of Controller of Examinations. The concerned Institute shall notify and obtain such proposals from interested students within ONE month of the commencement of a semester, for undergoing the OC course(s) in the subsequent semester. Such proposals shall be processed through the above-said DAC, and recommendations of the DAC shall be submitted to the Office of the Controller of Examinations by the respective Head of the Institution, 30 working days before the last working day of the semester. Repetition of courses already registered/completed shall not be permitted. Post-facto permissions shall not be entertained under any circumstances.
- (ii). Students shall opt for the OC Course(s) offered
 - a) By SWAYAM / NPTEL portal.
 - b) By State / Central funded Universities or Institutions, which are in the top 25 positions in the latest 'National Institutional Ranking Framework' (NIRF) ranking. NIRF ranking is based on the respective stream for PE Courses and on any stream for OE Courses.
 - c) Directly by foreign Universities within QS ranking 500 for the last three years and not through Edutech platforms.
 - d) By State / Central Research Laboratories or Institutions (other than Universities & Colleges) or Companies / Firms (manufacturing, software or service) related to the programme and involved in transfer of knowledge (provided the knowledge transferring company is a spinoff from an Engineering / Technology practising Industry) and sharing the experience of the respective industry.
- (iii). Maximum number of courses that a student can undergo is 'THREE' for the above clause 10.10 (ii) a) – d). Number of courses that can be registered shall not exceed 'TWO' per semester, subject to the maximum credit limit of 36 in a semester.
- (iv). Students shall also undergo OCC in the 'University abroad' under the

students' exchange programme through the Centre for International Relations of Anna University (refer Student Exchange Guidelines). The number of courses to be undertaken by a student in the 'University abroad' shall be as per the MoU & Learning agreement. Upon successful completion of the courses, the credits earned by the student shall be transferred as per the learning agreement. The Head of the Institution shall be the nodal officer for coordinating all the activities with the Centre for International Relations, Anna University, in offering the OC Course(s) to the students, as per the University guidelines in force from time to time.

- (v). A Coordinator shall be nominated as a Single Point of Contact (SPoC) by the respective Head of the Institute, for coordinating all the activities related to the OC Course(s).
- (vi). Advancement of courses, if any, shall be permitted as per Clause 10.5.

11. Attendance

11.1. The students are expected to attend all the classes without fail. Attendance of the student in each course is calculated from

$$\% \text{ of attendance} = \frac{\text{Actual Number of Classes Attended}}{\text{Total Number of classes Conducted}} \times 100$$

The student shall be permitted to appear in the End Semester Examinations if the overall attendance in each registered course is 80% and above.

11.2. If a student secures attendance of 70% or more but less than 80% in any course in the current semester due to medical reasons (hospitalization/accident/specific illness) or due to participation in the college/university/state/national/international level sports events with permission from the head of the institution, the student shall be given exemption from the prescribed attendance requirement and the student shall be permitted to appear for the end-semester examinations of that course. In such cases, the student's attendance percentage shall be calculated as specified in Clause 11.1.

11.3 A student who secures an overall attendance of less than 80% shall be prevented from appearing for the End Semester Examinations in all the courses registered during that semester. Such a prevented student shall not be permitted to progress to the next semester. A prevented student shall be permitted to rejoin the programme only in the next academic year, and shall undergo all the prescribed

courses of that semester. If the academic regulations are revised, any addition or deletion of course(s) shall be prescribed by the Controller of Examinations. The student shall be required to complete any additional course(s), if any, for successful completion of the programme.

- 11.4** The students should get prior approval from the respective Head of the Institution to attend campus recruitments, seminars, project work, internships, co-curricular and extra-curricular activities. Only upon prior approval of the Head of the Institution, attendance for the above-mentioned activities shall be considered as 'ON-DUTY'. Students may avail only 10% of total working days in a semester. However, students participating in sports activities and representing the institution at the University/State/National/International level shall be permitted to avail ON-DUTY without the 10% restriction, subject to prior approval from the Head of the Institution. Additional classes shall be conducted by the Institute for the student(s) who are participating only in the above-said sports activities so that such students shall attain the prescribed overall percentage attendance to appear in the End Semester Examinations.
- 11.5** The list of students eligible for appearing in the end semester examination(s) and prevented from writing the end semester examination(s) shall be published by the Controller of Examinations within THREE working days from the last working day of a particular semester.
- 11.6** A student, if eligible for appearing in the end semester examinations, shall be allowed to withdraw the course(s) for bonafide reason(s), only with prior approval of the Head of the Institution and the same shall be intimated to the Office of the Controller of Examinations. In cases of medical emergencies only, the Head of the Institution may accord post-facto approval upon prior intimation from the student or parent/guardian. Students shall appear for the 'End Semester Examination' in the subsequent semester. The course(s) withdrawn shall not be considered as an appearance for classification of degree. For any course that may be withdrawn by the student in the final semester of the programme, supplementary examination shall be conducted within a maximum period of 30 working days from the date of publication of the results.

12. Break of Study

12.1 Students shall be permitted to avail ONE ‘Break of Study’ for a period of ONE year (Two consecutive semesters) in the entire four years of the programme for bonafide reasons (such as hospitalization/accident / specific illness) only. However, Break of Study shall also be granted for the above-said bonafide reasons for a period of SIX months (one semester) to students who have already completed up to the VII semester of the programme. The student shall apply for Break of Study to the respective Head of the Institution through email/letter, which shall be forwarded to the Office of the Controller of Examinations for further action. Under any circumstances, the student shall not be permitted to request for Break of Study retrospectively, and requests for Break of Study will not be accepted after the generation of ‘Prevention list’. Duration of the Programme is ‘as given in Clause 5.2’ and includes the period of the above-approved Break of Study.

12.2 Students who are granted ‘Break of Study’ shall be allowed to appear for the End Semester Arrear Examinations for backlog courses, if any, during the period of Break of Study.

13. Unauthorised Absence

If a student has not reported officially to the Institution for the entire duration of the semester, without any prior written request (hard copy or email to the official ID of the respective Head of the Institution) for ‘Break of Study’, the Head of the Institute shall send the intimation of unauthorised absence to such Student / Parent / Guardian through email/registered post. Considering students’ welfare and natural justice, the Head of the Institute shall inform such Student / Parent / Guardian a minimum of three times periodically in a semester of the unauthorised absence. If a student has not reported after three intimations, then the Head of the Institute shall send the list of such student(s) to the ‘Office of the Controller of Examinations’. After verifying all relevant records, the Institute shall cancel the admission of such student(s), and communicate this decision to the competent authority for students’ admission.

14. Re-joining the Programme

After the end of the approved ‘Break of study’ period, the student shall be permitted to re-join the programme in that particular semester, for which ‘Break of Study’

has been granted to the student. Student(s) shall re-join the programme within TEN working days from the date of commencement of the semester. Under any circumstances, the period of rejoining shall not be extended. Regulations & Curriculum in force for the specific semester, at the time of re-joining, shall be applicable to such student(s). Appearance of the student (including absence) in the end semester examinations for these courses in that particular semester shall be considered as ‘First Appearance’. If there is any change of Academic Regulations & Curriculum, the student shall undergo additional course(s) or get exemption from undergoing the course(s), as recommended by the committee, constituted by the Office of Controller of Examinations. Addition/exemption of course(s), if any, due to change of regulations at the time of re-joining shall be prescribed to the student within FIFTEEN working days from the date of rejoining, and the intimation shall be sent to the Head of the Institute.

15. Disciplinary Proceedings

If a student faces disciplinary action for any serious offence (for example, ragging, misbehaviour, etc.), the disciplinary committee of the Institute shall conduct a detailed inquiry within SEVEN working days from the date of cognisance of such incident(s). The disciplinary committee of the Institute shall be constituted by the Head of the Institution, consisting of the following members;

- | | |
|--|---------------|
| 1. Head of the Institute | - Chairperson |
| 2. Head of the Department of the student (s) concerned | - Member 1 |
| 3. Head of the Department from another department | - Member 2 |
| 4. Professor/ Associate Professor from another department | - Member 3 |
| 5. Professor / Associate Professor (Women) from other department | - Member 4 |
| 6. Faculty Advisor of the respective student | - Member 5 |

Head of the Institution shall, in turn, forward the committee report with remarks to the Director, Centre for Student Affairs, Anna University. If the committee recommends suspension for more than one week, debarment for a semester, or issuance of a Transfer Certificate, the Committee report shall be placed before the Students’ Grievance Redressal Committee of the Institution, and appropriate disciplinary action shall be taken against the student if the charges are proved.

Representation of the students shall be considered, in all the stages of the enquiry, before imposing any penalty to the student(s).

16. Vacation

There are two vacations (winter, summer) in an academic year. The academic calendar shall announce the period of both vacations.

17. Teaching & Evaluation

17.1. Each course is conducted by a ‘Course Instructor’, who has the overall responsibility for successful conduct of class work, maintenance of attendance and assessment records for the courses handled.

17.2. Semester-wise performance assessment of the student is evaluated through continuous assessments & end-semester examinations, and in some courses through continuous assessments only.

17.3. For ‘Theory (T) Courses’, evaluation shall be through continuous assessments and end-semester examination. For each theory course in the respective curriculum, students’ performance shall be evaluated for a maximum of 100 marks. Continuous assessment shall carry 40% weightage, and the end-semester examination shall carry 60%.

(i). Continuous assessments comprise two Internal Examinations (IE) and activities as prescribed in the syllabus content of the respective course. For each IE, there shall be a minimum of ONE ‘activity’ which includes Individual Assignment Presentation Review by other department, Software Activity, Review of GATE questions, Multiple Choice questions, any other experiential Learning, etc., as prescribed in the respective course syllabus. Weightage for IE and activities is provided in Table 3. Average of marks obtained in two assessments shall be taken as Continuous Assessment marks for a particular course.

(ii). End semester examination shall be conducted for 100 marks for a duration of THREE hours. However, for ONE-credit theory courses, end-semester examinations shall be conducted for a maximum of 50 marks, with a maximum duration of 90 minutes. Marks secured in such ONE credit theory course shall be subsequently converted into equivalent marks out of 100.

**Table 3 – Continuous Assessment in Theory (T) Courses (IE: 40% + ESE: 60%,
Total: 100 marks)**

Assessment – I (100 Marks)		Assessment – II (100 Marks)		End-of-semester examination (100)	Total
Individual Assignment Presentation Review by other department / Software Activity / Review of GATE questions / any other experiential Learning	Written Test IE-1	Individual Assignment Presentation Review by other department / Software Activity / Review of GATE questions / any other experiential Learning	Written Test IE-2	ESE will be converted to 60% for computation of total marks	100
40	60	40	60		
Total Assessment Marks - 200					
Continuous assessment will be converted to 40% for computation of total Internal marks					

17.4 For ‘Laboratory Integrated Theory (LIT) Courses’, evaluation shall be through continuous assessments and end-semester examination. Continuous assessment shall have a weightage of 50% & end-semester examination shall have a weightage of 50%.

- (i). Continuous assessment comprises two IEs for the theory part and two IEs for the practical portion. For each IE, activities such as assignments, group assignments, quizzes, etc., shall be completed as prescribed in the respective course syllabus. The assessment of the laboratory practical component will be based on turn-to-turn supervision of the student’s work and performance in the laboratory practical test.
- (ii). The common course committee shall approve the rubrics for the laboratory practical component at the beginning of the semester. Table 4 presents the weightage for the theory and practical components with respect to credits.

Table 4 – Weightage for Continuous Assessments and End Semester Examinations in LIT Courses

L	T	P	C	Internal Assessment 1	Internal Assessment 1	End Semester Examination
1	0	4	3	Lab (25%)	Theory (25%)	Lab only (50%)
1	0	2	2	Lab (25%)	Theory (25%)	Lab only (50%)
2	0	2	3	Theory (25%)	Lab (25%)	Theory (25%) Lab (25%)
3	0	2	4	Theory (25%)	Lab (25%)	Theory (35%) Lab (15%)
2	0	4	4	Theory (25%)	Lab (25%)	Theory (15%) Lab (35%)

17.5 For ‘Laboratory (L) Courses’, evaluation shall be through continuous assessments and end-semester examination. Continuous assessment shall have a weightage of 60% & end-semester practical examination shall have a weightage of 40%.

- (i). Continuous assessments will be based on turn-to-turn supervision of the student’s work, submission of observation notebooks, and activities as prescribed in the syllabus content of the respective course. Rubrics for each laboratory course shall be arrived at by the course instructor, with approval of the Head of the Department concerned, at the beginning of the semester. Table 5 gives the weightage for continuous assessment.

Table 5 – Continuous Assessment in Laboratory (L) Courses (IE: 60% + ESE: 40% Total: 100 marks)

Evaluation Component	Marks	Converted to	Final Marks
Observation, record work & Viva Voce (75 Marks)	75	75	100 Marks converted to 60
Model examination (25 marks)	100	25	
End semester examination Laboratory examination	100	40	40
Total Marks			100

- (ii). End semester practical examination shall be conducted for laboratory courses for 100 marks, and this examination shall be scheduled preferably before the commencement of theory examinations in a particular semester.

17.6 For ‘Project Work’, a student or a group of students (not exceeding four) shall work in a domain of interest, under a faculty member, who shall be the Guide and regularly interact (at least twice a week) with the student/group of students. The respective department decides the dates for reviews, report submission, and the viva-voce examination. The project will be evaluated through continuous assessments (two reviews at regular intervals), evaluation of the project report, and the final viva-voce examination. A committee constituted by the respective Head of the Department shall conduct project reviews, comprising the Guide(s), Project Coordinator, and one internal subject expert. Continuous assessment shall have a weightage of 60%. Student(s) shall submit a project report and defend it in front of a panel of examiners to evaluate students’ performance. The project thesis report shall carry 20% weightage, and the final viva-voce examination shall carry 20% weightage. Table 6 presents the break-up of marks with weightage for continuous assessment and end-semester examinations. For conduct of the viva-voce examination, one internal examiner from the respective department and one external examiner shall be nominated by the Controller of Examinations.

Table 6 – Continuous Assessment & End-Semester Examination for Project Work

Continuous Assessment (60 Marks)		End-Semester Examination (40 Marks)			
Review I	Review II	Project Report Evaluation		Viva-Voce	
		Guide	External Examiner	External Examiner	Internal Examiner
30	30	10	10	10	10

17.7 For ‘Internship cum Project Work’, a student or a group of students (not exceeding four) who are selected for the internship shall work on a project in the industry concerned that mandatorily requires an internal guide & external guide. On receipt of the intimation letter/email regarding the internship, the

Head of the Department concerned shall nominate a Guide and Co-Guide (if required) for smooth progression of the work, and the list of such students' details shall be submitted to the Head of the Institute concerned.

- (i). Internal Guide is a faculty from the department of the student. An internal co-guide from other department may also be nominated by the Head of the Department concerned, based on the nature of the project work, if required.
- (ii). An external guide shall be identified at the time of offering the internship to the students by the industry concerned and the external guide has to interact with the internal guide / co-guide at regular intervals for formulation, monitoring and completion of the project work. External guide shall be a review committee member for evaluating the progress of the work and performance of the student(s). Bonafide certificate for the completion of the 'Internship cum Project Work' shall be approved by both internal guide(s) and external guide.
- (iii). Any confidential / Intellectual Property Rights matters related to the industry concerned, shall be discussed by the external guide from the industry, at the beginning of the internship cum project work with the student(s) and the internal guide(s), in order to arrive at the problem definition & formulation of objective(s) of the Internship cum Project Work.
- (iv). For undergoing 'Internship cum Project Work' in a hassle-free manner and also in the large academic interest of the students and also to maintain the quality of the project work, sufficient information and data shall be provided by the industry concerned to the student/group of students and the same shall be ensured by the internal guide(s) at the beginning and at regular intervals, for successful completion of the 'Internship cum Project Work'.
- (v). Students who are undergoing 'Internship cum Project Work' in the industries located in the vicinity of the Institution (60 km from the Institution) shall attend the review in physical mode. Students undergoing 'Internship cum Project Work' in industries located beyond 60 km from the Institution may attend the review in physical or online mode. The external guide shall attend the review either online or in person.
- (vi). Evaluation of 'Internship cum Project Work' is as per Clause 17.6.

17.8 For ‘Internship (Private Organisation) / Industrial Training (Government Organization)’, a student shall undergo ‘Internship / Industrial Training’ for a period as stipulated in the respective curriculum of the Programme. The industry in which the student proposes to undergo Internship / Industrial Training, shall involve in Design / Fabrication / Production / Manufacturing / Testing / Research & Development Services, etc. in alignment with the fields related to the programme. After completion of the Internship / Industrial Training, the student shall submit a report, describing the observations, skills acquired, usefulness, etc., along with the attendance certificate issued by the industry concerned.

Evaluation shall be carried out by the committee comprising of three faculty members, and a representative from the industry concerned (preferably Unit Head) constituted by the respective Head of the Department and one among the faculty shall be nominated as the coordinator. End semester examination is to be conducted by an industry personnel / external subject expert recommended by the head of the department, in the presence of the guide. as presented in Table 7. In case of pre-occupation of the industry representative for the conduct of viva-voce examination, then the marks awarded by the representative shall be obtained through email.

Table 7 – Weightage for Continuous Assessment of Internship / Industrial Training

Report	Presentation	Viva-Voce
40%	30%	30%

17.9 For ‘Mini-Project / Design Thinking’, an academic activity as part of the curriculum, a student or a group of students shall undergo the practice of doing theoretical or experimental works for understanding the concepts elaborately. A review committee shall be constituted by the respective Head of the Department, consisting of three faculty members viz. an internal expert, coordinator and respective supervisor for periodical reviews. Performance of the students is assessed by this committee only through

continuous assessments, which include two reviews. Weightage is 25% each for the first two reviews and 50% for the third review as given in Table 8. Student(s) shall submit a report in the prescribed format within the deadline as specified by the Head of the Department. This committee evaluates the project report submitted by the student(s) with a weightage of 30% out of 50% and conduct viva-voce examination with a weightage of 20% out of 50%, in the third review.

Table 8 – Assessment of Mini Project / Design Thinking

Review I (25 Marks)	Review II (25 Marks)	Review III (50 Marks)	
		Report	Viva-Voce Examination
25	25	30	20

17.10 A course on '*Standards*' is discipline-specific, offered in order to equip the students with essential knowledge on standards with respect to their discipline of study. Performance of the students shall be evaluated only through continuous assessments with minimum of 'TWO' tests. Out of two tests, one test shall be conducted at the mid-term of the semester and second test shall be conducted at the end of the semester. These two tests shall carry equal weightages. End Semester Examinations shall not be conducted for this course.

17.11 Courses on '*Life Skills*' are offered under HUM category, in order to train the students towards emotional intelligence, resilience, stress management, communication skills etc., Students' performance shall be evaluated only through continuous assessment. Two IEs shall be conducted; first IE shall be conducted at the mid-term of the semester and second IE shall be conducted at the end of the semester. Students shall undergo the activities as prescribed in the syllabus content of the course. Weightage for IEs and activities is given in Table 9. Average marks obtained in two assessments that include both IEs and activities shall be taken as continuous assessment marks for Life Skills. End Semester Examinations shall not be conducted for these Life Skill courses.

Table 9 – Weightage for Continuous Assessment for Life Skills

IEs	Activities
60%	40%

17.12 AICTE Activity Point Programme: ‘National Cadet Corps (NCC) / National Sports Organization (NSO) / National Service Scheme (NSS) / Youth Red Cross (YRC)’, is a mandatory requirement during the first year of the programme.

- (i). The choice shall be solely based on the decision of the student at the time of admission and no change shall be permitted at a later stage. These activities are normally conducted during off-working hours and weekends and are designed to build character and to sensitize the students to social / national development. Camp for each activity shall be conducted during vacation period. Training period and camp duration shall be decided by the respective unit, from time to time. These activities shall not carry any credits.
- (ii). In addition to the above mandatory requirements, the student(s) shall be permitted to participate in NSS / NSO / NCC / YRC in subsequent years too, if they have an interest to pursue further. Successful completion of such participation shall be awarded with credits and shall be featured only in the grade sheet. However, the credits earned shall not be considered for computation of CGPA.

17.13 Industry Oriented Course (IOC)

- (i). There shall be ‘TWO’ Industry Oriented Course (IOC) to be successfully completed by student, as prescribed in the respective curriculum. Students shall also be permitted to register for these courses offered by other departments, provided the student has fulfilled the necessary pre-requisites of the course being offered.
- (ii). Proposal for conduct of IOC shall be submitted by the respective department to the Head of the Institution during the commencement of each semester for conducting IOC(s) in the subsequent semester, as per the curriculum.
- (iii). Course content of IOC shall be framed by the identified industrial expert in consultation with the department concerned. A faculty member shall be

nominated as coordinator by the respective Department. Content shall be of trans / multidisciplinary in nature, with practical applications such as case studies, standards, certifications, etc. The proposal shall contain a brief introduction about the expert, title of the course, lesson plan for 15 hours, tentative schedule of the classes and pre-requisite(s), if any, for the students to undergo the IOC.

- (iv). The received proposals shall be placed before the IAAC by the Head of the Department and with recommendations of IAAC, proposal(s) shall be forwarded, within 15 days before the last working day of the ongoing semester to the Head of the institution for further action. List of approved IOCs shall be widely published among the students through the website and other official media of the Institution, before the last examination date of the ongoing semester. Approved IOCs shall be offered in the subsequent semester.
- (v). Classes shall be conducted by the industry expert through physical / hybrid mode and slot for these courses shall be allotted depending on the availability of the expert in regular timetable, before or after the working hours. However, time slots on Saturdays may also be judiciously decided by the respective Head of the Institution, depending on the convenience of the students and expert. For all sessions, the coordinator shall attend the classes along with the students. Attendance register for IOC shall be maintained by the coordinator.
- (vi). Size of the batch shall be preferably below 75 for both physical and hybrid mode.
- (vii). Classes for IOC shall be held in the Institute premises and the practical classes or case studies / project, if any shall be conducted at the Institute / Industry, which shall be decided by the Industry Expert in consultation with the coordinator.
- (viii). Performance of the students shall be evaluated only through continuous assessments, with 'TWO' IEs viz. First IE in mid-term of the course and second IE at the end of the course. These IEs have equal weightage. Mode of assessment can be Quiz, Multiple Choice Questions, Descriptive type,

Assignments, Projects, etc., and it is at the discretion of Industrial Expert and Coordinator. End Semester Examinations shall not be conducted for IOC course.

- (ix). Students shall also be permitted to attend the IOCs as ‘Value Added Courses’ over and above the two mandatory IOCs. The result(s) of such VACs shall be printed in the Grade sheet and the credit acquired shall not be considered for computation of CGPA.
- (x). At the end of each IOC, students’ feedback shall be obtained and reviewed by the respective Head of the Department, for further refinement of the course.

17.14 Self Learning Course (SLC)

- (i) Students are permitted to optionally enrol and study a maximum of three off-campus courses in physical/online/hybrid mode under each UG programme with the approval of the Head of the Institution. The successful completion of these courses through any of the following modes shall be considered in lieu of professional elective/open elective courses of the curriculum as approved by the Head of the Institution.

Students may optionally enrol in and study these courses through SWAYAM - NPTEL platforms, and credit transfer will be based on the marks and certificate provided by NPTEL. The number of credits and credit transfer are based on the procedure explained in Table 10. The mark-to-grade mapping applies only if the student passes the course as per NPTEL guidelines.

Table 10 - Duration of the course and Number of credits

Sl. No.	No. of Weeks	No. of Credits
1	4	1
2	8	2
3	12	3
4	16	4

- (ii). A student, under the guidance of a faculty member who has completed a PhD degree, can register for the self-learning course from the 3rd semester, after obtaining approval from the head of the institution for the recommendation

made by the department committee consisting of the head of the department, programme coordinator, and a faculty member who is a subject expert. The student should choose a specific problem after conducting a literature survey and solve the problem. An article based on this work must be communicated for publication in journals that are indexed in both SCOPUS and/or SCI databases. The respective student and the guide shall be the first and second authors, and the maximum number of authors permitted is two. After publication, the student may seek exemption for one professional/open elective course in the subsequent semester (from the 5th semester to the 8th semester for B.E. and B.Tech. programmes). The grade will be awarded based on the quality of publication, as mentioned in Table 11.

Table 11 Grade Point Assignment for Self-Learning Course

Category of Journal	Grade Point
Publication that is indexed in both SCOPUS and SCI databases	O
Publication that is indexed in SCOPUS or SCI database	A+

17.15 Courses offered under '*Skill Development (SD)*' category (**except Capstone Design Project and IOC**) shall be evaluated as follows.

- (i). For courses under Laboratory type, the evaluation shall be as prescribed in Clause 17.5.
- (ii). For courses under Laboratory Integrated Theory type, evaluation shall be through continuous assessments and end-semester practical examination prescribed in Clause 17.4.
- (iii). Continuous assessments comprise two IEs, practical and activities, as prescribed in the syllabus content of the course. For each IE, there shall be a minimum of ONE 'activity'.
- (iv). End-semester practical examination for SD courses with L-T-P as 1-0-2 shall be conducted for a maximum of 100 marks, and the duration of this practical examination shall be 'THREE' hours. This practical examination shall be scheduled preferably before the commencement of theory examinations in a particular semester.

- (v). Continuous assessments have a weightage of 75% & the end-semester examination has a weightage of 25%, as provided in Table 12.

Table 12 – Weightage for Continuous Assessment & End-Semester Examination for SD (except Capstone Design Project and IOC)

Continuous Assessments		End-Semester Practical Examination
IE	Activity	
25%	50%	25%

17.16 In summary, the weightage for Continuous Assessments & End Semester Examination for various categories of courses is given in ‘Table 13’ as follows.

Table 13 – Summary of Weightages for Continuous Assessments & End Semester Examination for various categories of courses

S. No.	Type	Continuous Assessments	End-Semester Examinations
1.	Theory	40%	60%
2.	Laboratory Integrated Theory	50%	50%
3.	Laboratory	60%	40%
4.	Project Work / Internship cum Project Work	60%	40%
5.	Internship / Industrial Training	100%	---
6.	Mini-Project	100%	---
7.	Laboratory / SD	60%	40%
8.	Laboratory Integrated Theory / SD (other than Capstone Design Project & IOC)	75%	25%
9.	Laboratory Integrated Theory / SD (IOC only)	100%	---
10.	Laboratory Integrated Theory / SD (Capstone Design Project only)	60%	40%
11.	HUM (only for Life Skills, Physical Education, Standards & Foreign Language)	100%	---

17.17 Passing Criteria in a Course

A Student is declared 'PASS' in a course upon satisfying the following conditions.

- (i). **For Theory, Laboratory Integrated Theory & Laboratory course**, the student shall secure a minimum of 45% of marks in the end semester examination and also obtain a minimum of 50% marks in total, combining both Continuous assessments and the end semester examination.
- (ii). **For Project Work / Internship cum Project Work**, the student shall secure a minimum of 45% of marks in the end-semester examination (Project report evaluation & Viva-Voce examination) and also obtain a minimum of 50% marks in total, combining both 'Continuous assessments and End semester examination (Project report evaluation & Viva-Voce examination)'.
- (iii). **For Internship / Industrial Training**, the student shall secure a minimum of 50% marks in the continuous assessments.
- (iv). **For Mini Project**, the student shall secure a minimum of 50% of marks in the continuous assessments through two reviews, as given in Clause 17.9.
- (v). **For 'Industry Oriented Courses' under SD Category**, the student shall secure a minimum of 50% of marks in continuous assessments.
- (vi). **For LIT type courses under SD Category (other than Capstone Design Project & IOC)**, student shall secure a minimum 45% of marks in the end semester practical examination and also obtain a minimum 50% of marks in total, combining both Continuous assessments and End semester practical examination.
- (vii). **For courses on 'Life Skills, Standards & Foreign Language' under HUM category**, a student shall secure a minimum 50% of marks in continuous assessments.
- (viii). **For Courses on 'Heritage'**, a student shall secure a minimum 45% of marks in the end semester examination and also obtain a minimum 50% marks in total, combining both Continuous assessments and End semester examination.
- (ix). **For 'Self Learning Course'**, the student shall secure a minimum 50% of marks as per the evaluation processes prescribed by the Institute / Firm / Company offering the SLC. However, in the case of courses offered by

NPTEL / SWAYAM, the student shall secure a minimum of 40% of marks. Published result of the SLC obtained from the source of learning shall be submitted by the student concerned to the respective Head of Department through the Head of the Institution, after completion of the course. Marks obtained by a student in the SLC shall be converted to an equivalent grade, adopting the procedure as prescribed in Clause 20.2 of this regulation.

If a grade point is awarded in the SLC, an equivalent new grade shall be arrived at by converting the grade points secured by the student on a 10-point scale, and a new equivalent grade shall be awarded as per Clause 20.1 of the regulations. If the decimal of the grade point is equal to or greater than 0.50, then the grade point shall be rounded off to the next higher integer. If the decimal part of the grade point is less than 0.50, the grade point shall be rounded off to the nearest integer. For example, if a student secures a grade point of 3.4 on a 4-point scale, then the grade point on a 10-point scale shall be 8.50 and rounded off to 9. Hence, the new equivalent grade for grade point '9' is 'A' as per Clause 20.1 of the regulations. If a grade point secured by a student is 3.6 out of 7-point, then the grade point on 10-point scale shall be 5.14 and rounded off to 5. Hence, the new equivalent grade for grade point '5' is 'C'.

- (x). **For 'Off Campus Courses'**, the student shall submit the result of these courses to the Head of the Institution, after successful completion of the course(s), within a week's time from the date of publication of the results. Marks obtained by a student in the course(s) shall be converted to an equivalent Grade, adopting the procedure as prescribed in Clause 20.2 of this regulation. In the case where grade point is awarded to Off Campus Courses, a new equivalent grade shall be awarded as described in Clause (ix).
- (xi). **For 'Value Added Courses'**, a student shall secure a minimum of 50% marks, as per the evaluation processes prescribed by the approved Firm / Company offering the VAC. Grade shall be awarded as prescribed in Clause 20.2 of the regulations. Credits earned shall not be considered for computation of CGPA.

17.18 Publication of Results and Revaluation

- (i). Publication of examination results shall be within TWENTY working days from the date of completion of regular end semester examinations of a particular programme.
- (ii). After publication of end semester examination results, students shall apply for revaluation of the answer script(s), as per the guidelines prescribed by the Controller of Examinations from time to time.
- (iii). Students shall not be permitted to apply for revaluation of the answer script(s) for the course(s) in which the students' performance is evaluated only based on continuous assessment.
- (iv). Students shall not be permitted to apply for revaluation of the answer script(s) for the course(s) offered under the SD category.
- (v). The COE will arrange for the revaluation, and the results of revaluation shall be published within 15 days from the last date for submission of application for revaluation of answer script, as notified by the Controller of Examinations.

17.19 Not Satisfying 'Passing' Criteria

A student who has not satisfied the passing conditions in,

- (i). **Theory, Laboratory, Integrated Theory, & Laboratory courses, the s,** student has to reappear in the 'End Semester Examination' in the subsequent semester(s). In such case, the continuous assessment marks obtained in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the third attempt onwards, if a student fails to obtain pass marks (Continuous Assessments + End Semester Examination) as per clause 17.18, then the student shall be declared to have passed the examination if the student secures a minimum of 50% of total marks in the end semester examinations alone.
- (ii). **Project Work or Internship cum Project Work or Internship / Industrial Training or Mini Project or Design Thinking,** a supplementary viva-voce examination shall be conducted within a minimum period of 30 days from the date of publication of results. If the student is not able to successfully complete the course in the supplementary examination, then the student has to repeat the course in the ensuing semester.

- (iii). **For Industry Oriented Courses under the SD category**, re-examination shall be conducted within a minimum period of 10 days from the date of publication of results. If a student does not successfully complete the IOC in the re-examination, registration of the particular IOC shall stand cancelled. The student shall register for the same IOC / any other IOC in the ensuing semester.
- (iv). **Self Learning Course:** The student shall register for the same course or one from the other two courses opted by the student in the same semester itself within one week from the date of declaration of result, with prior intimation to the respective Head of the Institution. If the student is still unable to successfully complete any one of the SLCs within the semester, the student shall opt for the same courses in the subsequent semester or submit a list of three alternative SLCs again and obtain the approval from the Head of the Institution.
- (v). **A course on Standards, Life Skills, & Foreign Language** special session shall be arranged for the student(s) in the ensuing semester by the respective Head of the Institution, during the free slots or before or after the working hours, on working days. If the student is still unable to successfully complete the course, the student shall repeat the course when it is offered in the subsequent semester(s).

18 Honours Degree

18.1 Students always have a passion or fascination for a particular field or a line of thinking or study, and the Honours Degree option enables the student to nurture this interest. Students shall obtain an Honours degree by successful completion of additional courses in the ‘FIRST APPEARANCE’ itself. These additional courses are over and above the courses prescribed in the respective curriculum from the ‘FIFTH’ semester onwards. Additional courses shall be either a ‘CAPSTONE DESIGN PROJECT’ or ‘SIX ELECTIVE COURSES’.

- (ii). Students shall earn ‘**EIGHTEEN**’ credits and the split-up of credits shall be given in the respective curriculum.
- (iii). Eligibility for any student admitted under Clause 4 of this regulation to opt for the Honours degree is that the student should earn a

minimum CGPA of 7.0 in ‘THIRD’ and ‘FOURTH’ semesters together, and also the student should not have any history of arrears from the first semester.

- (iv). Eligibility for any student admitted under Clause 4 of this regulation to opt for the Honours degree is that the student should earn a minimum CGPA of 7.0 in ‘THIRD’ and ‘FOURTH’ semesters together without any backlog arrears in Third and Fourth semesters.

18.2 Capstone Design Project for ‘HONOURS’ Degree

- (ii). Capstone Design project provides an opportunity to work in a team to design and develop a product, focusing to evolve solutions for real-time problems, starting from Problem definition, Specification formulation within given constraints, Review of design process and design ideation, Human factors, Market research, Product and patent research Publication, fabrication considerations, Safety and risk assessment, Liability and ethics, Environmental and sustainability considerations, Proof-of-concept methods, Codes and Standards, etc. and finally to test prototype(s).
- (iii). A group comprising 4 to 6 students, spread over a minimum of two departments and a maximum of three departments, shall opt for Capstone Design Project in ‘THREE PHASES’ from V to VII semester, in addition to the courses as prescribed in the curriculum. Students from at least TWO departments must be part of the project group, and each department must contribute at least TWO students.
- (iv). A Mentor shall be identified by the students from any one of the participating departments. Head of the Department of the Mentor’s Department, with approval of the Head of the Institution, shall constitute a Project Review Committee (PRC) consisting of the Mentor, one faculty member from the department of the students (other than the Mentor’s Department) in the group and one expert from industry in the relevant field. Students shall also identify Co-Mentor(s) from the participating department(s).

- (v). During the Capstone Design Project, student groups are encouraged to participate in events like Smart India Hackathons organised by AICTE, Ministry of Education, various IITs, NITs, and Industrial Expos (IBM, Microsoft, etc.) to showcase and pitch their inventions. If a student group wins a Hackathon, team members will be awarded an O grade. The runners-up will receive an S grade, and any team that reaches the finals will be awarded an A+ grade. The mentor and the Head of the Department will approve this work, with approval from the Head of the institution.
- (vi). Evaluation of the Capstone Design Project is by continuous assessment (three periodic reviews) in each semester by the Project Review Committee (PRC) and Viva-voce examination at the end of each semester. Viva-Voce examination shall be conducted with a panel of Internal examiners (PRC) and ONE external examiner. Weightage for Continuous assessment is 60%, and for project report evaluation along with Viva-voce examination is 40%.
- (vii). Every student in the group shall secure a minimum of 45% of marks in Project report evaluation & viva-voce examination and also obtain 50% of the total marks in the Continuous assessments + (Project report evaluation & viva-voce examination) for getting 'PASS' in the particular phase of Capstone Design Project. Upon successful completion of the phase, students may proceed to the next phase. If any student in the group does not secure 'PASS' as prescribed above, the student shall discontinue the Capstone Design Project and shall not associate with it further.
- (viii). After earning '**EIGHTEEN**' credits through the successful completion of the Capstone Design Project (CDP), 'HONOURS' shall be conferred along with a 'Certificate of Appreciation' to the students who secure 8.50 or higher CGPA, without any history of arrears. If a student in the group, after successful completion of the Capstone Design Project, secures less than 8.50 CGPA, the 'HONOURS' degree shall not be conferred. However, the result of the Capstone Design Project shall

appear on the Grade sheet, and a ‘Certificate of Appreciation’ shall be issued to those students.

18.3 Six Elective Courses for ‘HONOURS’ Degree

- (ii). Students shall opt for ‘Honours’ Degree by undergoing ‘SIX’ additional elective courses from the Honours vertical as listed from V to VII semester as listed in the respective curriculum. The student shall earn ‘EIGHTEEN’ additional credits through the coursework, which are related to the major discipline of study. Evaluation and ‘PASS’ requirement of these courses is as per Clauses 17.3, 17.4 and 17.18 for Theory courses.
- (iii). On successful completion of six elective courses, ‘HONOURS’ shall be conferred on the students who secure a CGPA of 8.50 or higher, without any history of arrears. If the student, after successful completion of ‘SIX’ courses, secures less than 8.50 CGPA, the ‘HONOURS’ degree shall not be conferred.
- (iv). If the student decides to opt out of the Honours Degree, after successful completion of a certain number of course work(s), these course(s) shall be treated as equivalent to PE Course(s). In such case, the student shall be permitted to drop an equal number of PE Course(s).
- (v). If the student successfully completes more PE Course(s), over and above the mandatory PE course(s) as prescribed in the curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be printed only on the grade sheet, and grades obtained in these courses shall not be considered for computation of CGPA.
- (vi). Global Professional Certifications: Students pursuing Honours may earn up to 6 additional credits through globally recognised professional certifications such as Google, Microsoft, AWS, Cisco, Oracle, Siemens, Autodesk, IBM, NVIDIA, PTC, Dassault Systems, Ansys, Math Works, or any other certification approved by the Board of Studies and Academic Council. Credit equivalence shall be determined based on course duration, learning outcomes, assessment methodology, and certification level. Table 14 shows the credits.

Table 14 - Credit Allocation Based on Learning Hours for Global Professional Certifications

Learning Hours	Credits
30–45 Hours	1 Credit
60–75 Hours	2 Credits
90–120 Hours	3 Credits
Above 120 Hours Up to 4 Credits (Subject to BoS Approval)	

19 Minor Degree

- 19.1** Students always have a passion to acquire knowledge apart from the discipline of the programme, making students more versatile. Students shall be awarded with minor degree upon successful completion of additional courses over and above the courses as prescribed in the respective curriculum from ‘FIFTH’ semester onwards.
- 19.2** Students shall earn ‘EIGHTEEN’ credits and split up of credits shall be prescribed in the respective curriculum.
- 19.3** Eligibility for any student admitted under Clause 4 of this regulation to opt for the Minor degree is that, the student should earn a minimum CGPA of 7.0 in ‘THIRD’ and ‘FOURTH’ semesters together and also students should not have any history of arrears from first semester.
- 19.4** Eligibility for any student admitted under Clause 4 of this regulation to opt for the Minor degree is that, the student should earn a minimum CGPA of 7.0 in ‘THIRD’ and ‘FOURTH’ semesters together without any backlog arrears in Third and Fourth semesters.
- 19.5** A student shall register for a ‘Minor’ degree, from the V semester by registering basket of courses as prescribed in the curriculum of the UG Programme offered by the department other than the parent department of the student. Evaluation and ‘PASS’ requirement of these courses is as per Clauses 17.3, 17.4 and 17.18 for Theory courses.
- 19.6** If the student decides to opt out of Minor Degree, after successful completion of certain number of course(s), these course(s) can be treated as equivalent to OE Course. In such case, the student shall be permitted to drop the equal number of OE course.

19.7 If the student successfully completes more number of OE Course over and above the courses prescribed in the curriculum, the courses with higher grades shall be considered for the computation of CGPA. Remaining courses shall be only printed on the grade sheet and grade obtained in these courses shall not be considered for computation of CGPA.

19.8 Minor Degree shall be reflected in the degree certificate as “B. E., / B. Tech., in XYZ Engineering with Minor in ABC”, where ‘XYZ’ is the Major Discipline of study and ‘ABC’ is the Discipline in which Minor Degree is offered.

Note: The students shall be permitted to opt for only either ‘Honours’ or ‘Minor’ Degree, during the programme.

20. Grading of Courses

Absolute grading system shall be followed for all category of courses. Range of marks for corresponding grades is presented in Table 15.

Table 15 – Grading of Courses

Marks Range	Grade	Description	Grade Points
91 – 100	S	Outstanding performance with respect to course learning objectives; exhibits original and creative thinking, and demonstrates the ability to analyze critically and synthesize information.	10
81– 90	A+	Excellent performance with respect to course learning objectives and creative thinking	9
71– 80	A	Very Good achievement with respect to course learning objectives	8
66 – 70	B+	Good achievement with respect to course learning objectives	7
61 – 65	B	Above Average achievement with respect to course learning objectives	6.5
56 – 60	C+	Average achievement with respect to course learning objectives	6
50 – 55	C	Satisfactory achievement	5
< 50	U	Re-appearance	0
	SA	Shortage of Attendance	0
	WC	Withdrawal of Course	0

For courses categorised under OC, SL & VAC, follow the absolute grading system given in ‘Table 14’, and for NPTEL/SWAYAM courses alone, the corresponding range of marks for each grade is presented in Table 16.

Table 16 – Range of Marks for grading of NPTEL courses

Marks Range	Grade	Grade Points
90 – 100	S	10
80– 89	A+	9
70– 79	A	8
60 – 69	B+	7
50 – 69	B	6.5
40 – 49	C	6

21. Calculation of Grade Point Average (GPA) / Cumulative Grade Point Average (CGPA)

- 21.1** Two parameters, Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) are used to evaluate the academic performance of the student.
- 21.2** The GPA is the weighted average of the grade points obtained in all the courses registered by the student during the semester. For example, if a student passes five courses (Theory / Laboratory / Project / Seminar etc.) in a semester with credits C1, C2, C3, C4 and C5 and the student’s grade points in these courses are g1, g2, g3, g4 and g5 respectively, then the GPA of the student is calculated as:
- $$GPA = \frac{(C1 \times g1) + (C2 \times g2) + (C3 \times g3) + (C4 \times g4) + (C5 \times g5) +}{(C1 + C2 + C3 + C4 + C5)}$$
- 21.3** At the end of each semester, the student is given a semester-wise grade sheet. This is a consolidated list of courses registered and grades obtained in that particular semester along with the appropriate GPA calculation.
- 21.4** The CGPA indicates the overall academic performance of a student and is computed to two decimal places in the same manner as the GPA, except that it includes all the courses registered up to and including the latest completed semester. Grades obtained after successful completion of additional courses that are not mandatory for the minimum requirement for award of degree shall not

be considered for computation of CGPA. However, results of these courses will be printed only in the grade sheet.

- 21.5** For the students who have successfully completed the requirements of Honours Degree, grades obtained in the additional courses / Capstone Design Project shall be taken into account for the computation of CGPA.
- 21.6** For the students who have successfully completed the requirements of Minor Degree, grades obtained in these additional courses shall be taken into account for the computation of CGPA.
- 21.7** If the student is absent for the registered course in the End Semester Examination(s) or Viva-Voce Examinations or absent for the assessments in case of courses evaluated only through continuous assessments, this absence shall be considered as an appearance for the purpose of classification of degree.
- 21.8** If a student opts to drop PE Course (s) as per Clause 10.6, this appearance in the particular PE Course shall be considered as an appearance for the purpose of classification of degree.
- 21.9** After successful completion of the courses as required for the award of degree, as per the curriculum, a consolidated grade sheet shall be printed and issued to all the students through the respective Head of the Institute.
- 21.10** The percentage of marks shall be printed in the consolidated grade sheet from the CGPA earned using,

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

22. Award of Degree

22.1 A student is deemed to have completed the requirements for the award of degree, if the student has:

- Successfully completed all courses as per the respective curriculum of the discipline, satisfying the minimum credit requirement and other academic requirements for the programme.
- No pending disciplinary action against him / her.

22.2 A student who fulfils the following criteria shall be declared to have successfully completed the degree programme with 'Honours' and classified under 'First Class with Distinction'.

- (i) Should have passed the examination of all the courses prescribed in the

curriculum of the respective programme in the ‘FIRST APPEARANCE’ itself, within the prescribed duration as per Clauses 5.2 (i), 5.2 (ii), and 5.2 (iii) of these regulations.

- (ii) Should have passed all additional courses prescribed in the curriculum of the respective programme, adhering to Clause 18 in the ‘FIRST APPEARANCE’ itself, within the prescribed duration as per Clauses 5.2 (i), 5.2 (ii), and 5.2 (iii) of these regulations.
- (iii) Should have secured a CGPA of at least 8.50.
- (iv) Should not have been prevented from appearing for any end semester examination(s), for the courses prescribed in the curriculum.

22.3 A student who fulfils the following criteria shall be declared to have

successfully completed the degree programme as ‘First class with Distinction’

- (i). Should have passed the examination of all the courses prescribed in the curriculum of the respective programme in the ‘FIRST APPEARANCE’ itself, within the prescribed duration as per Clauses 5.2 (i), 5.2 (ii), and 5.2 (iii) of these regulations.
- (ii). Should have secured a CGPA of at least 8.50.
- (iii). Should not have been prevented from appearing for any end-semester examination.
- (iv). Should have opted for Honours, not fulfilled the criteria for conferring Honours degree as per Clause 22.3 (iii) upon successful completion of additional courses under Honours vertical in the first appearance itself, but fulfilled the criteria prescribed in Clause 22.3 (i), Clause 22.3 (ii) and Clause 22.3 (iii) of this regulation.
- (v). Should have opted for a Minor degree and secured a CGPA of 8.5 without inclusion of additional SIX courses under MINOR vertical for computation of CGPA, but successfully completed all these SIX additional courses in the first appearance itself. In addition, the student should fulfil the criteria prescribed in Clause 22.3 (i), Clause 22.3 (ii) and Clause 22.3 (iii) of this regulation.

22.4 A student who fulfils the following criteria shall be declared to have successfully completed the degree programme as ‘**First Class**’

- (i). Should have passed the examination of all the courses within the prescribed

duration as per Clauses 5.2 (i), 5.2 (ii), and 5.2 (iii) of the regulations.

- (ii). Should have secured a CGPA of at least 6.50.
- (iii). Should not have been prevented from appearing for the end-semester examination.

22.5 A student who fulfils the following criteria shall be declared to have successfully completed the degree programme as **‘Second Class’**

- (A)** (i) Should have passed the examination of all the courses within the prescribed duration as per Clauses 5.2 (i), 5.2 (ii), and 5.2 (iii) of the regulations.
- (ii) Has secured a CGPA below 6.50.

(OR)

- (B)** Should have passed the examination of all the courses within the prescribed duration as per Clauses 5.2 (iv) and 5.2 (v) of the regulations.

22.6 A student who fulfils the criteria as prescribed in ‘Minor Degree’ as per Clause 19, shall be declared to have successfully completed the degree programme with **‘Minor’** and shall be classified appropriately as per Clause 22.3 or Clause 22.4 or Clause 22.5.

23. Academic Audit

The Internal Quality Assurance Cell (IQAC) & Office of the Controller of Examinations shall initiate the academic audit process once every semester by inviting external expert(s) approved by the competent authority. The IQAC shall make the arrangements to conduct the Academic Audit.

Academic audit shall cover (not limited to),

- 23.1** Course delivery and adherence to the course plan, syllabus coverage, quality of question papers used for continuous assessments, end semester examinations, practical assignments, mini projects and conduct of practical classes and the evaluation.
- 23.2** Co-curricular and extra-curricular activities available for students, the monitoring mechanism of activity points to be earned by the students.
- 23.3** Academic functioning of the Institute encompassing students, faculty and administration covering punctuality, attendance, discipline, academic environment, learning ecosystem, academic achievements and benchmarking.
- 23.4** Academic documents of UG programmes for a particular batch of students shall

be kept for a period of 'FIVE' years after the end of programme duration.

- 23.5** Academic audit report and subsequent action taken in every academic year shall be placed in Academic Council meeting for continuous improvement towards academic excellence.

24. Revision

Notwithstanding all that has been stated above, the Academic Council has the right to revise, amend or change these regulations, the curriculum, the syllabus and the scheme of examination from time to time.
