



NANDHA

ENGINEERING COLLEGE (Autonomous)

Erode-638052

(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi, Accredited by NAAC (A+ Grade))

R2026

REGULATIONS

(Applicable to the batch of students admitted from the academic year 2026-2027 onwards)

Common to all B.E. / B.Tech. Full-Time Programmes



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NANDHA ENGINEERING COLLEGE

(AUTONOMOUS)

(Affiliated to Anna University, Chennai and approved by AICTE New Delhi)

Erode-638 052, Tamil Nadu, India, Phone: 04294 – 225585



Rules and Regulations - 2026 [R26] CHOICE BASED CREDIT SYSTEM (CBCS)

Common to all B.E./ B.Tech. Full-Time Programmes

(Applicable to the batch of students admitted from the academic year 2026-2027 onwards)

REGULATIONS 2026 (R26) CBCS for B.E./ B.Tech. DEGREE PROGRAMME**1. PREAMBLE**

Institution is gearing up for several initiatives towards academic excellence, quality improvement and administrative reforms. In view of this priority and in-keeping with the Institution's Vision and Mission; process was already initiated towards introduction of semester system, grading system, credit system, CBCS (in which the students can choose courses of their own choice) and Outcome Based Education (OBE) in line with AICTE, UGC and Anna University, Chennai guidelines.

In order to enhance the flexibility in learning and to keep up-to-date developments to satisfy the needs of the students, Nandha Engineering College has framed this RULES AND REGULATIONS-2026. In short, it will be referred to as R26.

Academic Programmes of the Institute are governed by rules and regulations approved by the Governing Body.

Scope:

The academic rules and regulations are applicable to the students admitted into first year of four year undergraduate programs offered by the college leading to Bachelor of Engineering (B.E) / Bachelor of Technology (B.Tech) degree from the academic year 2026-27 onwards.

2. DEFINITIONS AND NOMENCLATURE

In this Regulation, unless the context otherwise specifies

- 2.1 **“Programme”** means Degree Programme (i.e) B.E. / B.Tech. Degree Programme.
- 2.2 **“Discipline”** means Branch or Specialization of B.E./ B.Tech. Degree Programme, like Civil Engineering, Mechanical Engineering, etc.
- 2.3 **“Course”** means a theory, theory cum practical and practical subject that
Is normally studied in a semester, like Calculus and Linear Algebra, Problem Solving and C Programming, etc.
- 2.4 **“Contact Hours”** means duration of Lecture, Tutorial, Practical or Project Work, as applicable.
- 2.5 **“Credit”** means a numerical value allocated to course units to describe the student's workload required per week.
- 2.6 **“Continuous Internal Assessments”** 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 tools, Solving of GATE questions, Internal Examinations, Project, Models, Flipped Class, Seminar, Group Activity, Report Writing, Assignments, Quizzes, Presentations, Practical Works, Case Studies, Technology enabled services to community, etc. Importantly, the students shall complete all activities, as prescribed in the syllabus of the respective course to get the internal marks.
- 2.7 **“End Semester Examination”** means an examination conducted for a course at the end of the semester to evaluate the student's overall learning attainments.
- 2.8 **“Grade”** means the letter grade assigned to each course based on the marks range specified.
- 2.9 **“Grade point”** means a numerical value (0 to 10) allocated based on the grade assigned to each course.
- 2.10 **Choice Based Credit System (CBCS):**
 - CBCS is a flexible system of learning that permits students to learn at their own pace
 - Choose electives from a wide range of elective courses offered by the departments
 - Adopt an inter-disciplinary approach in learning
 - Make best use of the expertise of available faculty.

- 2.11 **“University”** means affiliating University, ANNA UNIVERSITY, CHENNAI.
- 2.12 **“Head of the Institution”** means the Principal of the College.
- 2.13 **“Controller of Examinations”** means the authority of the College who is responsible for all activities of the Examinations.
- 2.14 **“HoD”** means Head of the Department.
- 2.15 **“BoS”** means Board of Studies.
- 2.16 **“AC”** means Academic Council.
- 2.17 **“GB”** means Governing Body.
- 2.18 **“SCAA”** means Standing Committee for Academic Affairs.
- 2.19 **“DAB”** means Department Advisory Board.
- 2.20 **“PAC”** means Programme Advisory Committee.

3 ADMISSION PROCEDURE

3.1 Regular Admission

Admissions to B.E., / B. Tech programmes offered in the Autonomous Institutions (affiliated to Anna University) shall be as per the norms prescribed by Govt. of Tamil Nadu as given below.

Required to have a pass in Higher Secondary Course Examination (Academic 10 + 2) Curriculum or its equivalent examinations with Mathematics, Physics and Chemistry. Other eligibility criteria such as minimum marks in each of the above courses for different categories of communities, number of attempts and physical fitness shall be as prescribed by the Govt. of Tamil Nadu from time to time.

(OR)

Should have passed the Higher Secondary Education of Vocational stream (Vocational groups in Engineering/ Technology) as prescribed by the Government of Tamil Nadu.

3.2 Lateral Entry Admission

Admission of students directly to second year (Lateral entry) of B.E., / B. Tech programme shall be as per the norms prescribed by the Govt. of Tamil Nadu as given below.

- (i) Those who possess a Diploma in Engineering / Technology awarded by the Directorate of Technical Education, Tamil Nadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. Programme. Other eligibility criteria such as discipline of Diploma, marks, number of attempts and physical fitness shall be as prescribed by the Govt. of Tamil Nadu from time to time.

(OR)

- (ii) Those who possess a Bachelor of Science (B.Sc.) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. Programme. Other eligibility criteria such as marks, number of attempts and physical fitness shall be as prescribed by the Govt. of Tamil Nadu from time to time.
- (iii) All students admitted provisionally or otherwise to any programme shall submit photo ID proof issued by State/ Central Govt., original transfer certificate from the institution last studied, copies of grade/ mark sheets of the qualifying examination and other relevant documents at the time of admission or by the last date prescribed by the competent authorities.
- (iv) The admission of a student, who fails to submit the prescribed documents by the above-said date in Clause 3.2 (iii), or fails to meet other stipulated requirement(s), shall be cancelled by the University. The University shall also cancel the admission

of a student at a later time, if the student is found ineligible / unfit at the time of admission or had furnished some false information / certificates or suppressed relevant information while seeking admission to the programme in the Affiliated Institutions.

4 PROGRAMMES OF STUDY

The programmes of study offered by the college with the approval of the University and All India Council for Technical Education, New Delhi are as follows:

B.E. Degree

- BM Biomedical Engineering
- CE Civil Engineering
- CS Computer Science and Engineering
- CC Computer Science and Engineering (Cyber Security)
- CI Computer Science and Engineering (Internet of Things)
- EC Electronics and Communication Engineering
- EE Electrical and Electronics Engineering
- ME Mechanical Engineering

B.Tech. Degree

- AG Agricultural Engineering
- AD Artificial Intelligence and Data Science
- CH Chemical Engineering
- IT Information Technology

5 PROGRAMME STRUCTURE

5.1 Curriculum and Courses

Every B.E. / B. Tech. Programme will have a curriculum comprising courses of study with the prescribed syllabi. Each course is assigned with certain number of credits based on the contact hours L-T-P-C (L-Lecture, T- Tutorial, P- Practical, C- Credit) as specified in section 5.6. The hours per week mentioned for each course refer to periods per week.

5.2 Programme Duration

- i). Duration of the programme is **FOUR** years (Eight Semesters) for a student admitted to a programme with qualifications as prescribed in Clause 3.1 of the 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 qualifications as prescribed in Clause 3.2 of the regulations. 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). 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 (students admitted under Clause 3.1) and ‘SIX’ years (students admitted under Clause 3.2). This maximum duration for successful completion shall be reckoned from the commencement of 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 (students admitted under Clause 3.1) and ‘SIX’ years (students admitted under Clause 3.2).

5.3 COURSES CATEGORIZATION

Syllabi of every Programme consist of Theory, Laboratory Integrated Theory and Practical courses with well-defined Program Outcomes (PO), Programme Educational Objectives (PEOs), Programme Specific Outcomes (PSO) and Course Outcomes (CO) as per Outcome Based Education (OBE). The courses shall cover:

- a **Humanities and Social Sciences including Management Courses (HUM)** include English Communication lab, Yoga for Youth Empowerment, English Proficiency Lab, Innovation, Start-up and Entrepreneurship.
- b **Basic Science Courses (BS)** include Mathematics, Physics, Chemistry, etc.
- c **Engineering Science General Courses - ES (G)** include Foundation Laboratory Makerspace, Engineering Graphics, Basics of Electrical and Electronics Engineering, etc.
- d **Engineering Science - Professional Core Courses - ES (PC)** includes the core courses relevant to the chosen specialization/branch.
- e **Engineering Science - Professional Elective Courses - ES (PE):** include the elective courses relevant to the chosen specialization/branch and Professional elective courses are offered under verticals (specialization groups)
- f **Engineering Science - Open Elective Courses - ES (OE)** include the courses relevant to the chosen specialization / branch which a student can choose from the curriculum of other B.E. / B. Tech. programmes and elective courses offered under HUM, BS, ES(PC) and ES(PE) categories.
- g **Skill Development Courses (SD)** includes Analytical skills, Life skills for Engineers, Project Works and/or Internship, Seminar, Professional Practices, Training at Industry/Research organization and online courses.
- h **Mandatory Courses (M):**

A candidate joined in first semester shall attend and complete a mandatory course namely Induction Programme of duration two weeks at the beginning of first semester.

The students shall also complete the following mandatory courses before eighth semester:

1. Research Paper Writing
2. Disaster Management and Preparedness
3. Indian Knowledge Systems
4. Personality and Character Development

No credits shall be given for mandatory courses and shall be evaluated through continuous internal assessments only for a maximum of 100 marks each. Upon the successful completion, these courses will be listed in the semester grade sheet and in the consolidated grade sheet with the grade “SF” (Successfully Completed).

Since no grade points are assigned, these courses will not be counted for the purpose of GPA and CGPA calculations.

5.4 Personality and Character Development

All students shall enroll, on admission, in any one of the personality and character development programmes NCC/NSS/NSO/YRC and undergo training / conduct activities for about 56 hours (regular students) and 28 hours (lateral students). The training shall include classes on hygiene and health awareness and also training in first-aid. Alternately, activities of science, literature and arts also help for personality and character development. So, students shall conduct and participate actively in Science club/Literary Forum/Fine Arts activities for specified hours and participate in at least ONE event.

- National Cadet Corps (NCC) will have about 20 parades.
- National Service Scheme (NSS) will have social service activities in and around the College / Institution.
- National Sports Organization (NSO) will have Sports, Games, Drills and Physical exercises.
- Youth Red Cross (YRC) will have activities related to social services in and around College/Institution.

While the training activities will normally be during weekends, the camp will normally be during vacation period.

- **Science club** shall organise activities of popularisation of science and scientific temper through activities related to astronomy, works of great scientists from India and abroad, observing National Science Day, etc.
- **Literary Club** like Tamil Ilakkiya Mandram shall be formed, which shall organize colourful literary events to propagate good humanist values, morals and ethics reflected in the literature.
- **Fine Arts Club** like music, painting and documentary films with social themes shall be encouraged.

Students who enroll and take active participation in anyone of the above activities for 56 hours (regular students) and 28 hours (lateral students) and participate at least one event/programme will be given a certificate by the Head of the Institution and the copy of the same shall be forwarded to the Controller of Examinations for the purpose of record and scrutiny.

No fee shall be charged for all these activities.

5.5 Number of courses per semester

Curriculum of a semester shall normally have a blend of theory course and laboratory integrated course not exceeding 7, laboratory, mandatory and skill development course(s) not exceeding 5. Each course may have credits assigned as per clause 5.6. However, the total number of courses per semester shall not exceed 12 (including SD and M courses).

5.6 Credit Assignment:

Each course is normally assigned certain number of Credits as given below.

Contact period per week	Credit (C)
One Lecture period (L)	1
One Tutorial periods (T)	1
One Laboratory Period(P) [also for SD courses like Makerspace, Foundation laboratory, mini project, micro project and Project, etc]	0.5

5.7 Elective Courses:

A list of elective courses will be declared at the beginning of each semester by the departments/college. Every student shall opt electives from the list of electives relating to his/her degree programme in consultation with the Academic coordinator and the HoD. The student will be required to study different types of electives like Engineering Science - Open Elective Courses (OE) and Engineering Science - Professional Elective Courses (PE). A student shall undergo **6 (minimum) to 7 (maximum) Engineering Science - Professional Elective Courses (PE) and 2 (minimum) to 3 (maximum) Engineering Science - Open Elective courses (OE) subject to maximum of 9 elective courses.** Engineering Science - Open electives and Engineering Science -Professional Elective Courses will spread over from 4th semester to 7th semester. Open electives are the elective courses offered by a department for students of other branches and Engineering Science - Professional Elective Courses are courses offered by a department to the students of their own branches only.

5.8 Industrial Training/ Internship:

The students may undergo Industrial training for a period as specified in the Curriculum during summer / winter vacation.

The students may undergo Internship at Research organization / University (after due approval from the Head of the department and Head of the Institution) for the period prescribed in the curriculum during summer / winter vacation, in lieu of Industrial training.

The student should undergo four weeks of Industrial Training / Internship before the commencement of seventh semester to earn 2 credits.

Duration of Training/Internship	Credits
2 weeks (80 internship hours)	1
4 weeks (160 internship hours)	2

The student is also permitted to undergo a semester long internship/ project work with internship as prescribed in their curriculum in an industry/ academic/research institution during final year.

5.9 Industrial Visit:

Every student is expected to undergo one industrial visit every year starting from third semester to six semester of the programme, subject to the approval of the Head of the Department and Head of the Institution

5.10 Value Added Courses (VAC):

The value added course shall carry 100 marks and shall be evaluated through continuous assessments only. Two assessments shall be conducted during the semester by the Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior faculty member nominated by the Head of the Institution shall do the evaluation process. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations. The grades earned by the students for Value Added Courses will be recorded in the Grade Sheet, however the same shall not be considered for the computation of CGPA.

5.11 Off-campus courses:

- a) Online Courses: Students may be permitted to register and credit for the online courses (which are provided with certificate) offered by SWAYAM/NPTEL/reputed institutions like IITs, NITs, NASSCOM and Global certifications with proctored examinations with the approval of the Head of the Institution. Head of the Institution shall form a committee to ensure that the student has not studied such courses and would not repeat it again as Professional Core/Engineering Science - Professional Elective/Engineering Science - Open Elective courses.
- b)1) Students are permitted to optionally enroll and study the courses in physical / hybrid / online modes offered by reputed Central / State funded Universities / Institutions which are in the top 20 positions in the latest NIRF ranking and also conducting examination towards award of marks and grades. (NIRF Ranking of any of the last three years with respect to the year in which course is to be registered; NIRF ranking is based on respective stream for Engineering Science - professional elective courses and based on any stream for Engineering Science - open elective courses).
- b)2) Students are also permitted to enroll and undergo such courses in online mode at Universities abroad in top 500 in QS ranking in the last three years.
- b)3) Students are also permitted to study courses of a particular semester in a University Institution abroad based on MoU. A learning agreement shall be evolved to map all the courses offered in the programme and the courses offered in University abroad as per the procedure outlined by the Institute. The credits earned by the students in the University abroad shall be transferred as per the learning agreement. In the case of (b)1), the students can enroll for the courses with the approval of the Head of the institution only if the course is offered directly by Institution/University and not with the edutech platforms.

The marks/credits earned by the student shall be transferred based on the decision of a committee constituted by the Principal and approved by the institution.

- b)4) Students are also permitted to enroll and study the courses in physical/hybrid mode (not less than 50% in physical mode) that are offered by (i) National/State funded research institutions/laboratories and (ii) (a) reputed companies (manufacturing or software) related to the programme, and (b) reputed companies involved in transfer of knowledge provided the knowledge transferring company is a spinoff from an Engineering /Technology practicing Industry and sharing the work experience of the respective industry. The companies mentioned in (b)4) (ii) (a) and the company with which the knowledge transfer company associated in the case of (b)4) (ii) (b) should have average annual turnover of more than 200 crores over a period of 5 years. However, the academic content and delivery shall be in consonance with the institution.

The minimum qualification of the course instructor from the company as mentioned in (b)4) (ii) shall be B.E/B.Tech with 10 years of research / industrial experience. Such courses shall be offered through MOU/ MOA between the institution and such institutions/organizations/companies. The design of the courses with regard to the syllabus content, duration of each course and number of credits offered for each course shall be discussed, recommended and approved by the Board of Studies as per the Regulations.

For the offer of each course under (b)3) and (b)4), a course coordinator shall be

nominated from the Department who shall also attend such course and shall coordinate the question paper setting and answer script evaluation with the course instructor.

- Students are allowed to earn a maximum of 15 credits from above category courses.
- If a student wishes to avail exemption of courses (PE/OE) for the credits earned through off-campus courses, he/she can do so by exercising his/her option in writing to the respective HoD. Decision on exemption of courses (PE/OE) will be taken by the committee constituted by the Chairman, Academic council by following the equivalence norm (contact hours, credits & Grade). Grades earned by the students for the online courses which are not claimed for exemption, will not be included in the computation of CGPA.
- Number of courses that can be registered shall not exceed 2 per semester, subject to the maximum credit limit of 36, in a semester.

5.12 Credit Courses:

- Students can opt for one / two / three credit courses from 2nd semester onwards as and when offered by different departments of 15 / 30 / 45 hours duration respectively. These courses will be offered & assessed by experts from industry/ other institutions on specialized topics. Students will be permitted to register for the credit courses offered by other departments with the recommendation of HoD and Head of the Institution, provided the students must have fulfilled the necessary pre-requisites of the course.
- If a student wishes to avail exemption of courses in the 5th / 6th / 7th semesters, he/she can do so by exercising his/her option in writing to the respective Head of the Department during the beginning of the semester by following the equivalence norm as given below.
 - ✓ Three credits earned through credit courses
 - ✓ Three credits earned through online courses
 - ✓ Credits earned through a combination of credit courses & Online courses
 - ✓ One or two credit(s) earned through credit courses & two or one credit (s) earned through online courses.
 - ✓ The credits earned by a student through any of the above options may be considered equivalent to three credit course.
- Decision on exemption of courses will be taken by the committee constituted by the Chairman, Academic Council (Principal). The grades earned by the students for the credit courses which are not claimed for exemption of an elective course, will not be included in the computation of CGPA.
- If a student who registers for credit courses does not successfully complete the course, the registration of that course will be considered as cancelled. Further, it will not be treated as arrear and no supplementary examination will be conducted; alternatively, if he/she wishes, he/she can re-register for the same course in the ensuing semesters and successfully complete it as and when it is offered subsequently.

5.13 Laboratory Integrated Theory Course:

ALaboratory Integrated Theory course is a combination of theory, laboratory and project components as given below.

- Embedded Theory, Laboratory & Project course
- Embedded Theory & Laboratory course
- Embedded Theory & Project course
- Embedded Laboratory & Project course

5.14 Self-Study Courses:

- A student can opt a course (maximum of two courses) under Self-Study mode, which may be either an Engineering Science - Open Elective Course (OE) or a Engineering Science - Professional Elective Course (PE) on specific approval of committee constituted by the Chairman Academic council provided the student has CGPA of 7.5 & above, with no standing arrears.
- The students shall study on their own under the guidance of a faculty member approved by the Head of the Department who will be responsible for the periodic monitoring and evaluation of the course.

5.15 Project Work:

Every student shall be required to undertake a suitable project in industry / research organization / department in consultation with the Head of the Department and the faculty guide and submit the project report thereon at the end of the semester in which the student is registered, on dates announced by the College/Department. A student shall register for the final Project Work as specified in the curriculum (only after 7th semester of his/her studies).

The last date for submission of the project report is on the last working day of the semester. If a student fails to submit the project report on or before the specified deadline, it will be considered as fail in the Project Work and the student shall re-register for the same in the subsequent semester.

5.16 Micro/ Mini Project:

For 'Micro / Mini-Project', an academic activity as part of the curriculum, a student or a group of students (not exceeding 4 students) shall undergo the practice of doing theoretical or experimental works for understanding the concepts elaborately in fourth /sixth semesters. 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 internal assessments, which include three reviews. Weightage is 25% each for the first two reviews and 50% for the third review as given in Table 1. 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 20% out of 50% and conduct viva-voce examination with a weightage of 30% out of 50%, in the third review.

Table 1 – Weightage for Assessment of Micro/ Mini Project

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

5.17 Award of Credits to Hackathon Project /Expo:

- A student may opt to undertake a project (preferably from the 3rd Semester onwards) to earn academic credits under two distinct categories, evaluated by a subject expert panel
 - **Category 1:** Projects that are presented at IITs/NITs/NIRF Ranked Institutions and won prizes are eligible for the award of 3 credits.
 - **Category 2:** Projects presented at Techno Expos, or regional, national, and global skill competitions that win prizes are also eligible for 3 credit.
- Credits earned through above categories are subject to a maximum of 6 credits, and the same project cannot be submitted twice to claim credits in the same categories.
- If a student wishes to **avail exemption from courses** in the 6th or 7th semester, he/she must submit a **written request** to the respective Head of the Department at the **beginning of the semester**.
- Decision on exemption of courses will be taken by the committee constituted by the Chairman, Academic Council (Principal). Grades earned for project presentations **not claimed** for exemption from an elective course **will not** be included in the computation of CGPA.

5.18 Comprehension Course:

The Comprehension course evaluates a student's ability to synthesize, retain, and apply core multidisciplinary concepts acquired throughout the B.E./B.Tech program. It prepares graduates for technical competitive examinations (such as GATE), placement assessments, and professional engineering practice. Student performance is assessed through Continuous Internal Assessment (40%) and the End-Semester Examination / Final Viva-Voce (60%), structured as follows:

- **Continuous Internal Assessment (CIA) [40% Weightage]:** Conducted by an internal departmental committee, this component evaluates students through periodic objective-type online tests, GATE-pattern domain quizzes, and structured technical seminars or viva-voce evaluations.
- **End-Semester Examination (ESE) / Final Viva-Voce [60% Weightage]:** Evaluated jointly by an internal subject coordinator and an external expert panel, this component validates outcome attainment, technical depth, and overall industry readiness.

5.19 Life Skills for Engineers and Yoga for Youth Empowerment

Courses on “**Life Skills for Engineers**” are offered under SD category; in order to train the students towards emotional intelligence, resilience, stress management, communication skills etc.,

Courses on “**Yoga for Youth Empowerment**” falls under the SD category, serving as a transformative practice that equips young people with practical tools to build mental resilience, emotional balance, and physical confidence in an increasingly complex world.

Students’ performance shall be evaluated only through continuous assessment. Two CATs shall be conducted; first CAT shall be conducted at the mid-term of the

semester and second CAT 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 CATs and activities is given in Table below. Average marks obtained in two assessments that include both CATs and activities shall be taken as Continuous Internal Assessment (CIA) marks for Life Skills for Engineers and Yoga for Youth Empowerment.

Weightage for Continuous Internal Assessment for Life Skills for Engineers and Yoga for youth Empowerment

Continuous Assessment Test	Activity
60%	40%

End Semester Examinations shall not be conducted for this Life Skill for Engineers and Yoga for Youth Empowerment courses.

5.20 Foundation Lab and Makerspace

Courses on “**Foundation Laboratory**” and “**Makerspace**” are offered under SD category.

The **Foundation Laboratory** serves as an essential experiential bridge between theoretical instruction and real-world application. It equips students with hands-on technical proficiency, structured problem-solving capabilities, and collaborative teamwork habits etc.

The **Makerspace** is a collaborative workspace designed to bridge the gap between creative ideation and physical execution. It equips students with open access to modern rapid-prototyping tools, traditional fabrication equipment, and interdisciplinary hardware. By fostering a "learning-by-making" culture, the Makerspace transforms abstract ideas into functional prototypes and market-ready solutions.

Students’ performance shall be evaluated only through continuous internal assessment. Two CATs shall be conducted; first CAT shall be conducted at the mid-term of the semester and second CAT shall be conducted at the end of the semester. Each CAT examinations carry 50 marks.

5.21 Advancement of Courses:

The students, who completed their final semester courses (except project work) in advance, shall be permitted to carry out their final semester Project Work for six months in an industry/research organization.

These students shall undergo the eighth semester courses other than the Project Work in the sixth and seventh semesters, provided they do not have currently standing arrears and have a CGPA of 7.50 and above at the end of Semester IV. The Head of Department, in consultation with the faculty handling the said courses shall forward the proposal recommended by the Head of the Institution to the Controller of Examinations for approval atleast 4 weeks before the commencement of the sixth semester of the programme for approval.

5.22 For the award of the degree, a student has to earn certain minimum total number of credits specified in the curriculum of the relevant Programme.

- 5.23 **Medium of instruction:** The medium of instruction, examinations, project report etc. shall be in English.

6 DURATION OF THE PROGRAMME

- 6.1 A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (for HSC students) and six semesters (for Lateral Entry students) but in any case not more than 14 Semesters for HSC (or equivalent) students and not more than 12 semesters for Lateral Entry students.
- 6.2 Each semester shall normally consist of 90 working days or 540 periods of 50 minutes each. The Head of the Institution shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.
- 6.3 The total duration for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum duration specified in clause 6.1 irrespective of the period of break of study (vide clause-14) or prevention (vide clause-8.4) in order that the student may be eligible for the award of the degree (vide clause-17).
- 6.4 The Head of the Institution may conduct additional classes for improvement, special coaching, conduct of model test etc., over and above the specified periods. But for the purpose of calculation of attendance requirement for writing the end semester examinations (as per clause 7) by the students, following method shall be used.

$$\text{Percentage of Attendance} = \frac{\text{Total no. of periods attended in all the courses per semester}}{(\text{No. of periods / week as prescribed in the curriculum}) \times 15 \text{ taken together for all courses of the semester}}$$

7 COURSE REGISTRATION

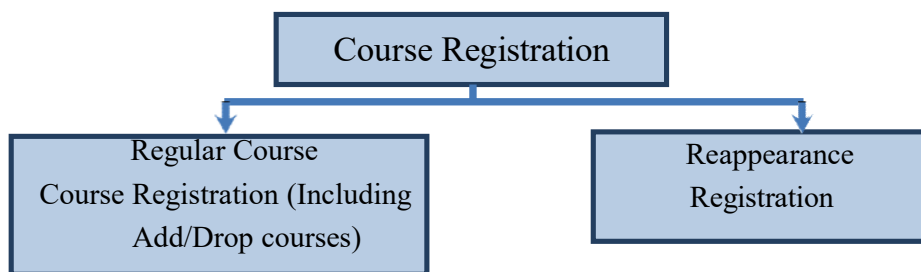
- 7.1 The Head of the Department is responsible for registering the courses that each student is proposing to undergo in the ensuing semester. Each student has to register for all courses to be undergone in the curriculum of a particular semester (with the facility to add/drop courses to a maximum of 6 credits (vide clause 7.4)). The courses dropped in earlier semesters can be registered in the subsequent semesters when offered.

The registration details of the student shall be approved by the Head of the Institution and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations.

The courses that a student registers in a particular semester may include

- i. Courses of the current semester.
- ii. Courses dropped in the lower semesters and
- iii. Courses to study as Add-On (as per clause 7.4).

The maximum number of credits that can be registered in a semester is 36. However, this does not include the number of Re-appearance (U) and Withdrawal (WC) courses registered by the student for the appearance of Examination.



7.2 COURSE REGISTRATION FOR ODD AND EVEN SEMESTER

- The enrollment for all the courses of the succeeding semester will commence 10 working days prior to the last working day of current Semester. However, the student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the concerned semester and complete the registration process duly authorized by the Head of the Department. The registration details of the candidates may be approved by the Head of the Institution and forwarded to the Controller of Examinations.
- After registering for a course, a student shall attend the classes, satisfy the attendance requirements as per clause-8.1, earn Continuous Internal Assessment marks and appear for the End Semester Examinations.
- A department shall offer a course only if a minimum number of students register for that course. This minimum number may vary from course to course and shall be specified by the department from time to time.
- **Choice of Engineering Science - Professional Elective Courses:**
The minimum number of registration is not applicable for students enrolling B.E./ B. Tech. (Hons) and B.E. / B. Tech. Minor. For the offer of each Engineering Science - Professional elective atleast two choices shall be offered.

- 7.3 Each student, on admission shall be assigned to a Proctor (vide clause-21) who shall advice and counsel the student about the details of the academic programme, choice of courses and course registration considering the student's academic background and career objectives.

7.4 **FLEXIBILITY TO ADD OR DROP COURSES**

- 7.4.1 A Student has to earn the total credits specified in the curriculum of the respective Programme of study, in order to be eligible to obtain the degree. However, if the student wishes, then he/she is permitted to earn more than the total number of credits prescribed in the curriculum.
- 7.4.2 Student has the option of registering for additional courses or dropping existing courses from III to VIII semesters. Total number of credits of such courses cannot exceed 6. However, Student has the option of registering ***minimum of 8 credits and maximum of 36 credits*** in a particular semester.

7.5 REAPPEARANCE REGISTRATION

- 7.5.1 If a student obtained “U” grade in the End semester examination, then he/she has to do reappearance registration in the subsequent semester for Theory and Laboratory courses; He/she can attend end semester examination with the existing Continuous Internal Assessment marks as per Clause 11.
- 7.5.2 Engineering Science - Professional Elective Course (PE) or Engineering Science - Open Elective Course (OE): If a student fails in a PE or OE theory course, the student may register for the same or any other Engineering Science - Professional elective or Engineering Science - Open elective course respectively in the subsequent semesters.
- 7.5.3 Lack of Attendance: If a student is prevented from writing end semester examination of a course due to lack of attendance, the student has to register for that course as per clause 8.4 and fulfill the requirements. If the course, in which the student has lack of attendance, is a Engineering Science - Professional Elective Course or an Engineering Science - Open Elective Course, the student may register for the same or any other Engineering Science - Professional Elective or Engineering Science - Open Elective Course.
- 7.5.4 A student who has already appeared for a course in a semester and passed the examination is not entitled to re-appear the same course for improvement of Grade/Marks.

8 REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION OF A COURSE

A student who has fulfilled the following conditions (vide clause 8.1 and 8.2) shall be deemed to have satisfied the attendance requirements for appearing for end semester examination of a particular course.

- 8.1** Ideally every student is expected to attend all classes of all the courses and secure 100% attendance. However, in order to give provision for certain unavoidable reasons such as medical / participation in significant events like sports, Hackathon, etc., as priorly approved by Head of the Institution, the student is expected to attend at least 75% of the classes. Therefore, he/she shall secure not less than 75% (after rounding off to the nearest integer) of overall attendance as calculated as per clause 6.4.
- 8.2** If a student secures overall attendance between 65% and 74% 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/ Hackathon events with prior permission from the Head of the Department concerned and Principal, the student shall be given exemption from the prescribed attendance requirement. The student shall be permitted to appear for the end semester examination of that course with recommendations of the committee constituted by the Principal, followed by paying prescribed fee fixed time to time. In all such cases, the student should submit the required documents on joining after the absence to the Head of the Department through the Academic coordinator.
- 8.3** A student shall normally be permitted to appear for End semester examination of the course if the student has satisfied the attendance requirements (vide Clause 8.1) and has registered for examination in those courses of that semester. Further, a student shall be permitted to appear for End semester examination of the course if the student has satisfied the attendance requirements (vide Clause 8.2) and has registered for examination in those courses of that semester by paying the prescribed fee. This permission (as per Clause 8.2) could be availed by the students only two times during

the entire course of study.

- 8.4** Students who do not satisfy clause 8.1 and 8.2 and who secure **less than 65%** overall attendance will not be permitted to write the End-Semester Examination of that course. The student has to register and repeat this course in the next academic year, as per the norms for rejoining (Clause 15).
- 8.5** Further, examination registration by a student is mandatory for all the courses in the current semester and all arrear(s) course(s) for the end semester examinations failing which, the student will not be permitted to move to the higher semester.
- 8.6** A student who has already appeared for a course in a semester and passed the examination is not entitled to reappear in the same course for improvement of letter grades / marks.
- 8.7** The student academic progress, character and code of conduct have to be satisfactory.

9 ASSESSMENT SCHEME FOR COURSES

The system of assessment is semester pattern. The End Semester examination for theory and practical courses shall be conducted for duration of three hours.

- 9.1** Total marks for each course (Theory, Practical, Embedded course & Project work) will be 100, comprising of two components namely,

- Continuous Internal Assessments (CIA) through-out the semester
- End Semester Examinations

However, there are some courses like credit courses (offered by industries), online courses, internship, VAC courses, Analytical skills, mandatory courses, etc., have only continuous internal assessments for 100 marks without an end semester examination. The DAB shall recommend such courses every semester with assessment pattern to SCAA for approval. The scheme of assessment shall be made available to the students during the course registration.

- 9.2** Each course shall be evaluated for a maximum of 100 marks as illustrated below.

S. No.	Category of Course	Continuous Internal Assessment (CIA) marks	End semester Exam (ESE) marks	Total Marks
a	Theory Courses	40	60	100
b	Laboratory Courses	60	40	100
c	Laboratory Integrated Theory Courses	50	50	100
d	Micro Project/ Mini Project	100	-	100
e	Project work/ Internship cum Project work	60	40	100
f	Credit Courses, Mandatory Courses (non-credit), Skill Development, VAC, Analytical skills, etc.	100	-	100

- 9.2.1 For all the practical courses, students shall obtain Bonafide certificate for the Record completed from the Faculty in-charges and Head of the Department on or before the day of the practical examination. Students who have not obtained the bonafide certificate are not permitted to appear for the examination.
- 9.2.2 Project work may be allotted to a single student or to a group of students not exceeding 4 per group.
- 9.3 For the end semester examinations in both theory and practical courses including project work the internal and external examiners shall be approved by the Controller of Examinations.

10 PROCEDURE FOR ASSESSMENT & AWARDED MARKS

10.1	The assessment shall be done as per the procedure given below:		
Theory Course		Practical Course	
Continuous Internal Assessment	40 Marks	Continuous Internal Assessment	60 Marks
End Semester Examination	60 Marks	End Semester Examination	40 Marks
Total	100 Marks		100 Marks
Continuous Internal Assessment Scheme for Theory Course (40%) A minimum of two continuous assessments will be conducted. Each assessment is to be conducted for 75 marks.		Continuous Internal Assessment Scheme for Practical Course (60%) 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the activities.	

Component	Marks		Components	Marks
CAT I	75	35	Experiments: • Preparation- 10 • Conduct of Experiments- 30 • Observation&Results-30 • Record-10 • Vivavoce-20	100* (converted to 75)
CAT II	75	35		
Activities (min. 2 activities) (2x15 = 30) (Tutorials, problem/ simulation based assignments, online tests, working models, etc.,)		30		
			Activities (min. 1 activity) (Model examinations, Team or Individual Projects, Models, Quizzes, Real world applications)	100* (converted to 25)
Continuous Internal Assessment Marks	100* (converted to 40)		Continuous Internal Assessment Marks	100* (converted to 60)

One Reassessment test (Re-CAT) shall be conducted at the end of the semester for the students who were absent for the CAT due to medical reasons such as hospitalization following an accident/illness, participation in the college/ University/ State/ National/ International level co-curricular and extra-curricular activities / other genuine reasons and improvement tests shall also be conducted for the students who wish to improve their CAT scores, with the prior permission of the Principal.						
End Semester Examination Scheme for Theory Course (60%)		End Semester Examination Scheme for Practical Course (40%)				
Examination duration:3 hours Max. marks: 100→Reduced to 60 marks		Examination duration:3 hours Max. marks: 100→Reduced to 40 marks				
Components of Laboratory Integrated Theory Course [Theory + Laboratory]						
Continuous Internal Assessment=50 Marks +End Semester Exam= 50 Marks = Total:100 Marks						
Continuous Internal Assessment: 50% [25% weightage for Theory + 25% Weightage for Laboratory]		End semester examination: 50%	L	T	P	C
CIA theory: 25%	CA Lab:25%	Laboratory Only 50%	1	0	4	3
Two CAT exams. CAT I (75 marks) Converted to 35 CAT II (75 marks) Converted to 35	Observation, record: = 75 Activities = 25		1	0	2	2
Activities (min. 2 activities) 30 marks	Continuous Internal Assessment Marks 100* (Converted to 25)	Theory 25%+ Lab 25%	2	0	2	3
(Tutorials, problem/simulation based assignments, online tests, working models, etc.,)		Theory 25%+ Lab 25%	3	0	2	4
Continuous Internal Assessment Marks 100* (converted to 25)		Theory 40%+ Lab 10%	2	0	4	4
			3	0	4	5
End semester examination shall be conducted for 100 marks for theory and Laboratory respectively and weighted average shall be converted as per the table. Passing Requirement: as per Clause 11.						

Project Work (Marks:100) [Design Project/ Project Work (Project cum internship)]				
Project work will be evaluated by continuous assessment (60) and end semester assessment (40).				
Continuous Internal Assessment-60 Marks		End Semester Assessment-40 Marks		
	Marks	Project Thesis Report	Guide	10
			External Examiner	10
Review-1	10	Viva-voce	Internal Examiner	10
Review-2	20		External Examiner	10
Review-3	30			
Total	60	Total		40

The Head of the Department shall constitute a review committee consists of Guide(s), Project Coordinator and one internal subject expert. There shall be three reviews during the semester by the review committee. The students shall make presentation on the progress made before the committee.

Re-submission of project:

If a student has submitted the project report but absent in the end semester examination of project work, the student is deemed to be failed. In this case and also if a student attends and fails in the End semester examination of Project work of B.E. / B. Tech, he/she shall attend end semester examination again within 60 days from the date of declaration of the results. The subsequent viva-voce examination will not be considered as reappearance. In case, the student fails in the subsequent viva-voce examination also, the student shall redo the course again, when offered next.

10.2 ASSESSMENT FOR INDUSTRIAL TRAINING/ INTERNSHIP

The Industrial Training/ Internship shall carry 100 marks and shall be evaluated through continuous internal assessment. At the end of Industrial training / Internship, the student shall submit a brief report on the training undergone and a certificate from the organization concerned. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three-member Departmental Committee constituted by the Head of the Department. Certificates (issued by the Organization) submitted by the student shall be attached to the mark list and sent to Controller of Examinations by the Head of the Department.

10.3 ASSESSMENT FOR CREDIT COURSE

The credit course shall carry 100 marks and shall be evaluated at the end of the course by the course handling faculty (Industry/Institutional). The list of students along with the marks and the grades earned may be forwarded to the Controller of Examinations. The Head of the Department may identify a faculty member as coordinator for the course to monitor the conduct and evaluation process of the course.

10.4 ASSESSMENT FOR ONLINE COURSE

Students are permitted to optionally enroll and study online courses through SWAYAM - NPTEL platforms and credit transfer is to be done based on the marks and certificate provided by the NPTEL. The number of credits and transfer of credits are based on the procedure explained in Table-1 and the Mapping of the marks with the grades is explained in Table-2. Online course of 3 credits can be considered instead of one elective course (PE/OE). The mapping of marks with grades is applicable, only if the student passes the course as per the guidelines of NPTEL

Table-1: Duration and Number of credits

Number of weeks	Number of credits
4	1
8	2
12	3
16	4

Table 2: Mapping of Marks scored in NPTEL course and Credits earned

Letter Grade	Marks
S	91 -100
A+	81 - 90
A	71 - 80
B+	61 - 70
B	51 - 60
C+	46 - 50
C	40 - 45
U	<40

10.5 ASSESSMENT FOR SELF STUDY COURSE

The Faculty member approved by the Head of the Department shall be responsible for periodic monitoring and evaluation of the course. The assessment shall be through Continuous Internal Assessment and End Semester Examination as like a theory course.

11 PASSING REQUIREMENTS FOR A COURSE

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

- 11.1 For Theory, Laboratory Integrated Theory and Laboratory course, 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 Internal assessments and End semester examination.

- 11.2 For Project Work / Internship cum Project Work, student shall secure a minimum 45% of marks in the end semester examination (Project report evaluation & Viva-Voce examination) and also obtain a minimum 50% marks in total combining both 'Continuous Internal assessments and End semester examination (Project report evaluation & Viva-Voce examination).
- 11.3 For Internship / Industrial Training, student shall secure a minimum 50% of marks in the continuous internal assessments.
- 11.4 For Mini Project, student shall secure a minimum 50% of marks in the continuous internal assessments through three reviews.
- 11.5 For SD Category, student shall secure a minimum 50% of marks in continuous internal assessments.
- 11.6 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 internal assessments and End semester practical examination.
- 11.7 For HUM category, student shall secure a minimum 50% of marks in continuous internal assessments.

12 PHOTOCOPY/ REVALUATION OF ANSWER SCRIPTS

- 12.1 A student shall apply for revaluation (in a prescribed format) of his / her semester examination answer script in a theory course within 2 weeks from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations. The Controller of Examinations shall arrange for the revaluation and the results shall be intimated to the candidate concerned. Revaluation is not permitted for practical courses and project work.
- 12.2 A student can apply for the Photocopy of his/her end semester examination answer script on payment of the prescribed fee through proper application to the Controller of Examinations after the end semester/revaluation results are announced to get himself / herself convinced of the valuation/revaluation.
- 12.3 **Review:** Candidates not satisfied with Revaluation can apply for Review of his/ her examination answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to Controller of Examination through the Head of the Institution. Candidates applying for Revaluation only are eligible to apply for Review.

13 PROVISION FOR WITHDRAWAL FROM END SEMESTER EXAMINATION

- 13.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by HoD and Principal) be granted permission to withdraw from appearing for the end semester examination in any course or courses in ANY ONE of the semester examinations during the entire duration of the degree programme. The application shall be sent to Dean (Academics) through HoD with required documents.

- 13.2 Withdrawal application shall be valid only if the student is otherwise eligible to write the examination (Clause 8) and if it is made within TEN working days before the commencement of the end semester examination in that course or courses and also recommended by the Head of the Department.
- 13.3 Notwithstanding the requirement of mandatory TEN working days notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 13.4 Withdrawal shall not be considered as an appearance for deciding the eligibility of a student for First Class with Distinction.
- 13.5 If a student applies for withdrawal from Project Work, he/she will be permitted for the withdrawal only if the student has submitted the project report before the deadline. However, the student may appear for the viva-voce examination within 60 days after the declaration of results for Project Work and the same shall not be considered as reappearance.

14 BREAK OF STUDY FROM A PROGRAMME

- 14.1 A student is permitted to go on break of study for a maximum period of one year either as two breaks of one semester each or a single break of one year.
- 14.2 The application for break of study (prescribed format) shall be duly filled by the student and submitted through the Head of the Department to the Dean (Academics) in advance, in any case, not later than the last date of the first assessment period. In the case of short term employment/training/ internship, the application for break of study shall be approved and forwarded by the HoD to the Dean (Academics).
- 14.3 The students permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining. The students rejoining in new Regulations shall apply to the Dean (Academics) in the prescribed form at through Head of the Department at the beginning of the re-admitted semester itself for prescribing additional/equivalent courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.
- 14.4 The total period for completion of the programme reckoned from, the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 6.1 irrespective of the period of break of study in order that the student may be eligible for the award of the degree (vide clause-17).
- 14.5 In case there is any period of break of study more than the permitted duration of break of study, the student shall be permitted to continue the programme only if the approval is obtained from the Dean (Academics) through the concerned HoD before the end of the semester in which the student has taken break of study
- 14.6 If a student has not reported to the department for a period of two consecutive semesters without any intimation, the name of the student shall be deleted permanently from the college enrollment. Such students are not entitled to seek readmission under any circumstances.

15 PROCEDURE FOR RE-JOINING THE PROGRAMME

15.1 A student who discontinues the programme or is prevented from continuing due to shortage of attendance, or who is permitted by the competent authority to repeat a semester, may rejoin the programme only at the commencement of the corresponding semester for a regular batch of students. Such rejoining shall be subject to the approval of the Directorate of Technical Education (DOTE) and shall comply with the guidelines of the Anna University.

15.2 Rejoining/ Readmission under different regulations:

- a) A student, who initially joins the college in previous Regulation and has to rejoin in an academic term of the present Regulation due to any reason, shall be bound by the rules of the current Regulation.
- b) After readmission, the student is required to study the courses prescribed in the new Regulation.
- c) If the student has already passed any course in the earlier Regulation/semesters of study, such courses are exempted. He/she has to undergo additional subjects to earn minimum required credit for the award of degree as per the recommendations of the committee.
- d) In case, the students who do not have option of acquiring required credits with the existing courses offered as per the curriculum under autonomy, credit balance can be achieved by clearing the additional courses offered. The additional courses that are offered can be of theory or laboratory courses and shall be offered during semester.

15.3 Transfer from other colleges (from Autonomous College/Anna University/other University):

- a) Students seeking transfer from Affiliated Colleges/Autonomous Institutions/University are required to follow the prevailing guidelines of Directorate of Technical Education (DOTE) and Anna University, Chennai.
- b) A committee comprising Dean (Academics) and Head of the Department of the concerned discipline shall decide the courses and credits balance between old and new regulations on case to case basis for the students rejoined under different Regulations or transfer. The committee will specify additional or equivalent academic course work to be undertaken by such students who rejoin the current Regulations subject to approval of Dean (Academics).

15.4 Procedure for Rejoining/ Readmission /Transfer is subject to change as per the Anna University guidelines.

16 AWARD OF GRADE

- 16.1 After a student has satisfied the passing requirements prescribed in clause 11, the student shall be placed in one of the following grades. All assessments of a course will be done on absolute grading principle. Credits/grade/marks earned through online courses as per Clause 5.11 & 10.4 will be decided as per Clause 10.4. However, for the purpose of reporting the performance of a student, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the student in each subject as detailed below:

Letter Grade	Grade Points	Range of Percentage of Total Marks
S (Outstanding)	10	91 to 100
A+ (Excellent)	9	81 to 90
A (Very Good)	8	71 to 80
B+ (Good)	7	66 to 70
B (Above Average)	6.5	61 to 65
C+ (Average)	6	56 to 60
C (Satisfactory)	5	50 to 55
U (Reappearance)	0	<50
SA (Shortage of Attendance)	0	-
WC (Withdrawal of Course)	0	-

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: “S”, “A+”, “A”, “B+”, “B”, “C+”, “C”.

“SA” denotes shortage of attendance (as per clause 8.4) and hence prevented from writing the end semester examinations. “SA” will appear only in the result sheet.

“U” denotes that the student has failed to pass in that course. “WC” denotes withdrawal of course from the exam for the particular course. The grades U and WC will figure both in the Grade Sheet as well as in the Result Sheet. In both cases, the student has to appear for the End Semester Examinations as per the Regulations.

If the grade “U” is given to Theory Courses/ Laboratory Courses it is not required to satisfy the attendance requirements (vide clause 8), but has to appear for the end semester examination and fulfill the norms specified in clause 14 to earn a pass in the respective courses.

If the grade “U” is given to SD course (except Project Work), which are evaluated only through internal assessment, the student shall register for the course again in the subsequent semester, fulfill the norms as specified in clause 11 to earn pass in the course. However, attendance requirement need not be satisfied.

- 16.2 The grades “S”, “A+”, “A”, “B+”, “B”, “C+”, “C” obtained for the credit course shall figure in the Marksheet under the title “Credit Courses”. The other grades U, SA will not figure in the mark sheet.

16.3 GPA AND CGPA CALCULATION

After the results are declared, Grade Sheets will be issued to each student which will contain the following details:

- List of courses registered during the semester and the grades scored.
- Grade Point Average (GPA) for the semester and
- Cumulative Grade Point Average (CGPA) of all courses registered from first semester onwards.

During each semester, the list of courses registered and the grades scored in each course are used to compute the Grade Point Average (GPA). GPA is the ratio of the sum of the products of the number of credits of courses registered and the grade points corresponding to the grades scored in those courses, taken for all the courses, to the sum of the number of credits of all the courses in the semester.

$$\text{GPA} = \frac{\sum_{i=1}^n C_i GP_i}{\sum_{i=1}^n C_i}$$

Where,

- C_i - is the Credits assigned to the course,
- GP_i - is the grade point corresponding to the letter grade obtained for each course
- n - is number of all Courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.

CGPA will be calculated in a similar manner, considering all the courses enrolled from first semester. “U” and “SA” grades will be excluded for calculating GPA and CGPA.

- 16.3.1 The credits earned through one/ two credit courses shall not be considered for calculating GPA and CGPA.
- 16.3.2 If a student studies more number of electives (PE/OE) than required as per the student's programme curriculum, the courses with higher grades alone will be considered for calculation of CGPA
- 16.3.3 If a student successfully completes all the requirements of the programme and also meets the requirements of B.E. / B. Tech. (Hons) or B.E. / B. Tech. Minor but desires not to opt for the additional qualification, then he/she has to submit a declaration with regard to the same 30 days before the completion of semester VIII.
- 16.3.4 In the consolidated grade sheet the CGPA earned shall be converted into percentage of marks as follows:
Percentage of Marks = CGPA X 10.

17 ELIGIBILITY FOR THE AWARD OF DEGREE

A student shall be declared to be eligible for the award of the degree if he/she has satisfied the following:

- Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.
- Successfully completed the course requirements, appeared for the End-Semester examinations and passed all the subjects within the period as prescribed in Clause 6.
- Successfully passed any additional courses prescribed by the college whenever

readmitted under regulations other than R26.

- Successfully completed the PCD courses like NSS/ NSO / YRC/ RSP.
- No disciplinary action pending against the student.

18 CLASSIFICATION OF THE DEGREE AWARDED

18.1 FIRST CLASS WITH DISTINCTION:

A student who satisfies the following conditions shall be declared to have passed the examination in First class with Distinction:

- ✓ Should have passed the examination in all the courses of all the eight semesters (6 semesters in the case of Lateral Entry) in the student's First Appearance within **five years** (**four years** in the case of Lateral Entry).
- ✓ Withdrawal from examination (vide Clause 13) will not be considered as an appearance.
- ✓ Should have secured a CGPA of **not less than 8.50**
- ✓ One year authorized break of study (if availed of) is included in the five years (four years in the case of lateral entry) for award of First Class with Distinction.
- ✓ Should NOT have been prevented from writing end semester examination due to lack of attendance in any semester.

18.2 FIRST CLASS:

A student who satisfies the following conditions shall be declared to have passed the examination in First class:

- ✓ Should have passed the examination in all the courses of all eight semesters within **five years** (all six semesters within **four years** in case of lateral entry).
- ✓ One year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of **five years** (**four years** in the case of lateral entry) for award of First Class.
- ✓ Should have secured a CGPA of **not less than 6.50**

18.3 SECOND CLASS:

- All other students (not covered in clauses 18.1 and 18.2) who qualify for the award of the degree shall be declared to have passed the examination in Second Class.
- A candidate who is absent in end semester examination in a course/ project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification (subject to clause 11)

18.4 Honours Degree

18.4.1 Students always have a passion or fascination for a particular field or a line of thinking or study and Honours Degree option enables the student to nurture this interest. Students shall obtain 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 'FIFTH' semester onwards. Additional courses shall be either a 'CAPSTONE DESIGN PROJECT' or 'SIX ELECTIVE COURSES'.

(i). Students shall earn 'EIGHTEEN' credits and split up of credits shall be

given in the respective curriculum.

- (ii). Eligibility for any student admitted under Clause 3.1 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 students should not have any history of arrears from first semester.
- (iii). Eligibility for any student admitted under Clause 3.2 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.

18.4.2 Capstone Design Project for 'HONOURS' Degree

- (i). 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, 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).
- (ii). A group comprising of 4 to 6 students, spread over minimum of two departments and 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. It is mandatory that students from at least TWO departments shall be a part of the project group and the number of students from each department shall be minimum one.
- (iii). A Mentor shall be identified by the students from any one of the participating Department. 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 Mentor, one faculty from the department of the students (other than the Mentor's Department) in the group and one expert from industry in the relevant field. Student shall also identify Co-Mentor(s) from the participating department(s).
- (iv). During the Capstone Design Project, the student groups are encouraged to participate in events such as Hackathon, Industrial Expo to showcase and pitch their inventions.
- (v). Evaluation of Capstone Design Project is by continuous internal assessment (Three periodical reviews) in each semester by the PRC and Viva-voce examination at the end of each semester. Viva-Voce examination shall be conducted with panel of internal examiners (PRC) and ONE external examiner. Weightage for Continuous internal assessment is 60% and for project report evaluation along with Viva-voce examination is 40%.
- (vi). Every student in the group shall secure a minimum 45% of marks in Project report evaluation and viva-voce examination and also obtain a 50% of total marks in the Continuous internal assessments + (Project report evaluation and viva-voce examination) for getting 'PASS' in the particular

phase of Capstone Design Project. Upon successful completion of the particular phase, the students shall be allowed to proceed to the next phase. In case, if any student in the group is not able to secure 'PASS' as prescribed above, the student shall discontinue from the Capstone Design Project and shall not associate with the Capstone Design Project furthermore.

- (vii). After earning 'EIGHTEEN' credits through the successful completion of the Capstone Design Project (CDP), 'HONOURS' shall be conferred along with 'Certificate of Appreciation' to the students, who secure 8.50 or higher CGPA, without any history of arrears. If the student in the group, after successful completion of Capstone Design Project secures less than 8.50 CGPA, 'HONOURS' degree shall not be conferred. However, the result of Capstone Design Project shall feature in the Grade sheet and a 'Certificate of Appreciation' shall be issued to those students.

18.4.3 Six Elective Courses for 'HONOURS' Degree

- (i). 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 course works, 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 & Laboratory Integrated Theory courses respectively.
- (ii). On successful completion of six elective courses, 'HONOURS' shall be conferred to 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, 'HONOURS' degree shall not be conferred.
- (iii). If the student decides to opt out of Honours Degree, after successful completion of 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 the equal number of PE Course(s).
- (iv). If the student successfully completes more number of 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 only printed on the grade sheet and grade obtained in these courses shall not be considered for computation of CGPA

18.5 Minor Degree

- (i) 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.
- (ii) Students shall earn 'EIGHTEEN' credits and split up of credits shall be prescribed in the respective curriculum.
- (iii) Eligibility for any student admitted under Clause 3.1 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.
- (iv) Eligibility for any student admitted under Clause 3.2 and Clause 4.3 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.
- (v) 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 and Laboratory Integrated Theory courses respectively.
- (vi) In order to get a Minor Degree, a student shall successfully complete the basket of courses as prescribed in the curriculum of the Department offering the Minor Degree and earn 'EIGHTEEN' additional credits. Grades obtained in the basket of courses shall also be considered for computation of CGPA, along with the courses in the curriculum for the programme (mainstream).
- (vii) 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.
- (viii) 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.
- (ix) 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.

19 DISCIPLINE

- Every student is expected to follow the rules and regulations laid down by the Institute and the affiliating University, as published from time to time.
- Every student is required to observe disciplined and decorous behavior both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the college. The Head of the Institution shall constitute a disciplinary committee to enquire into acts of indiscipline and notify the punishment. In case of any serious disciplinary action which leads to suspension or dismissal, then a special committee shall be constituted by the Head of the Institution for taking the final decision.
- If a student indulges in malpractice in any of the examinations, he / she shall be liable for punitive action as prescribed by the Institution / University from time to time

20 CHANGE OF BRANCH

There shall be no branch transfers after the completion of admission process.

21 PROCTOR SCHEME

To enable the students in planning their courses of study and for general advice on the academic programme, the Head of the Department of the students will attach a certain number of students (15 to 25) to a faculty member of the Department who shall function as Proctor for those students throughout their period of study. Such Proctors shall advise the students and monitor the courses undergone by the students, check the attendance and progress of the students attached to him/her and counsel them periodically. If necessary, the Proctor may also discuss with or inform the parents about the progress of the students.

22 CLASS COMMITTEE

22.1 Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson who is not teaching the class. It is like the “Quality Circle” (more commonly used in industries) with the overall goal of improving the teaching-learning process. The functions of the class committee include

- Solving problems experienced by students in the class room and in the laboratories.
- Clarifying the regulations of the degree programme and the details of rules therein particularly clause 5 and 6 which should be displayed on college Notice-Board.
- Informing the student representatives the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
- Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing /project work / seminar etc.) the breakup of marks for each experiment / exercise /module of work, should be clearly discussed in the class committee meeting and informed to the students.
- Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
- Identifying the weak students, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students.

- 22.2 The class committee for a class under a particular branch is normally constituted by the head of the department. However, if the students of different branches are mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Principal.
- 22.3 The class committee shall be constituted within the first week of each semester.
- 22.4 At least four student representatives (usually 2 boys and 2 girls) shall be included in the class committee.
- 22.5 The chairperson of the class committee may invite the Faculty adviser(s) and the Head of the department to the meeting of the class committee.
- 22.6 The Principal may participate in any class committee of the institution.
- 22.7 The chair person is required to prepare the minutes of every meeting, submit the same to Principal within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the Management by the Head of the Institution.
- 22.8 The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. The Class Committee Chairman shall put on the Notice Board the cumulative attendance particulars of each student at the end of every such meeting to enable the students to know their attendance details to satisfy the clause 8 of this Regulation. During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

23 COURSE COMMITTEE

COMMON COURSE COMMITTEE - A theory course handled by more than one faculty member shall have a “Common Course Committee” comprising of all teachers teaching that course and some students who have registered for that course. There shall be two student representatives from each batch of that course. One of the teachers shall be nominated as Course Coordinator.

MULTIPLE COURSES COMMITTEE - If a programme has in a semester, course(s) handled by a single teacher, there will be have a “Multiple Courses Committee” comprising of all the above teachers and two student representatives from each course. One of the above teachers, nominated by the Head of the Department shall coordinate the activities of this committee. The functions of this committee are similar to that of the common course committee.

The “Course committees” shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible, the course committee may also prepare a common question paper for the continuous assessment test(s).

24 Grievance Redressal Cell

Grievance Redressal Cell under the Chairmanship of Head of the Institution has been functioning with following composition:

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 Cell.

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

25 Student Mentoring Cell

Student Mentoring Cell has been functioning with a dedicated committee. 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. This counselling cell shall be constituted by the respective Head of the Institution.

26 Anti Sexual Harassment Cell

Anti Sexual Harassment Cell has been functioning to ensure a safe and secure working / studying environment for Girls and Women.

27 SC / ST Cell

A separate cell is functioning in the Institute 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.

28 REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

- 28.1 The Standing Committee / Academic Council of the College reserves the rights to revise or change or amend regulations, scheme of examinations, the curriculum and the syllabi from time to time if found necessary.
- 28.2 **SPECIAL CASES:** In the event of any clarification in the interpretation of the above rules and regulations, they shall be referred to the Standing Committee. The Standing Committee will offer suitable interpretations / clarifications / amendments required for special cases on such reference and get them ratified in the next meeting of the Academic Council. The decision of the Academic Council is final.

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