VELAMMAL COLLEGE OF ENGINEERING & TECHNOLOGY
MADURAI – 625 009
(Autonomous)

(Accredited by NAAC with 'A' Grade and by NBA for 6 UG Programmes)

(Approved by AICTE and affiliated to Anna University, Chennai)

UG REGULATIONS 2025
(UGR - 2025)

Common to all Under Graduate Programmes (B.E. / B.Tech)

Dean (Academics)
Velammal College of Engineering and Technology
(Autonomous)
Madurai - 625 009.

Principal
Velammal College of Engineering and Technology
(Autonomous)
Madurai - 625 009.

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1. Title

These regulations shall be called as 'Academic Regulations' for UG which is a version of Regulations 2025. In short, it is referred as 'UGR-2025.

2. Scope

2.1. The regulations provided herein shall apply to the students admitted in the Undergraduate (UG) Programmes offered in Velammal College of Engineering and Technology from the academic year 2025 – 2026.

2.2. These regulations are quite comprehensive and include definitions of key terms, critical concepts, methods of calculations, 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 electives from a wide range of elective courses offered by the departments.

c) Adopt an inter / trans-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, Biotechnology, 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 and December shall be called

'Odd Semester' (I, III, V, VII), and that scheduled between January and May, shall be called 'Even semester' (II, IV, VI, VIII).

3.6. **'Course'** refers to a Theory / Theory with Laboratory / Laboratory subject that is offered in a semester of the Programme.

3.7. **'Contact Hours'** means 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 to teach the prescribed syllabus. One credit is allocated to 15 contact hours for theory and 30 contact hours for practical.

3.9. **Continuous Assessment** means evaluation of the students' progress and performance in a course during a semester through various activities such as tests, assignments, quizzes, presentations, practical works, case studies, technology enabled services to community, etc.,

3.10. **End Semester Examination** means an examination conducted for a course at the end of the semester to evaluate the student's overall learning achievements.

3.11. **"Bonafide Student"** means the student who is admitted, joined and on-roll in an Undergraduate Programme.

3.12. **'Head of the Department'** means Head of the Department concerned.

3.13. **'Head of the Institution'** means the Principal of the college

3.14. **'Controller of Examinations (CoE)'** means the authority of the Institution who is responsible for all activities of internal and End semester Examination.

3.15. **"Dean (Academics)"** means the authority of the Institution who is responsible for all the activities in connection with academic regulations, curricula, syllabi & academic schedule for all the academic programmes and other academic activities, from time-to-time.

3.16. **"Dean (Student Affairs)"** means the authority of the Institution who is responsible for admission, students discipline, extracurricular and co-curricular activities.

3.17. **'Academic Council'** means the principal academic body of the Institution and have control and general regulation of teaching and examination in the Institute and be responsible for the maintenance of the academic standards thereon.

4. Admissions

4.1. Admissions to B.E., / B. Tech programmes offered in the Institute 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.

4.2. 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.

- ❖ 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.

4.3. All students admitted provisionally 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 University.

4.4. The admission of a student, who fails to submit the prescribed documents by the above-said date in Clause 4.3, or fails to meet other stipulated requirement(s) may be cancelled by the University. The Institute may 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 Institute.

5. Programme Structure

5.1. Curriculum

Every programme has a specific structure, known as the 'Curriculum', which prescribes all the details of courses for undergoing the programme and sets out the sequence semester wise.

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 4.1 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 4.2 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 authorized 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)]. Eligibility here refers to issuance of hall ticket to the student for appearing in the end semester examination.

(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 4.1) and 'SIX' years (students admitted under Clause 4.2). This maximum duration for successful completion shall be reckoned from the date of original admission to 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 4.1) and 'SIX' years (students admitted under Clause 4.2).

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. **Engineering Science Courses (ESC)** includes courses such as Engineering Mathematics, Engineering Physics, Engineering Chemistry, Applied Biology, Engineering Thermodynamics, etc.

II. **Humanities, Sciences & Management Courses (HSMC)** include English, Employability Skills, Engineering Ethics, Economics and Management courses.

III. **Professional Core Courses (PCC)** are the core courses relevant to the chosen discipline.

IV. **Professional Elective Courses (PEC)** are the courses which can be chosen from a larger pool of courses and are very specific / specialized / advanced / supportive to the discipline which nurtures the students' proficiency in the discipline.

V. **Emerging Technology Courses (ETC)** are the courses on the latest advancements in various fields of engineering and technology.

VI. **Open Elective Courses (OEC)** are elective courses chosen from other disciplines, with an intention to expose the students to interdisciplinary / multidisciplinary / transdisciplinary fields.

VII. **Self-Learning Course (SLC)** is a course to be selected by the students allowing them to be interacting with global network of faculty, peers, and industry experts from anywhere in the world, that facilitates developing an aptitude for life-long learning.

VIII. **Industry Oriented Courses (IOC)** are offered to allow students to expand their knowledge and skills in niche areas and meet the ever- changing arising

in the relevant industries, from time to time.

IX. **Skill Development Courses (SDC)** are the courses offered to enhance specific abilities and competencies of the students in academic and professional contexts.

X. **University Courses (UC)** are the courses which encompass a wide range of areas, from arts, and humanities to the sciences and technology, by and large, adds value to the programme of study. Various activities towards personality development such as NCC / NSS/ NSO / YRC, etc. are also part of UC.

XI. **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.

XII. **Off Campus Courses (OCC)** are the courses that can be undergone by the students, offered by other Institutions.

5.4. Medium of Instruction

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

5.5 Assignment of Credits

(i). Each course is assigned with credits with respect to contact hours as given in Table 1.

Table 1 – Credits for Contact Hour(s)

Contact Hour	Credits
1 Lecture Hour	1
1 Tutorial Hour	1
1 Laboratory Hour	0.5

(ii). ONE credit is assigned to 'Industrial training / Internship' for every 'TWO WEEKS' duration.

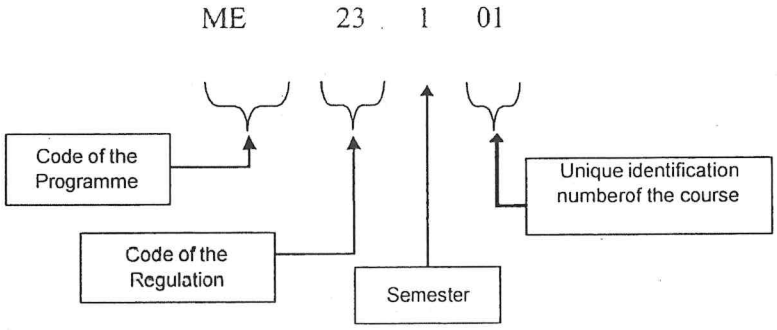
(iii). ONE credit is assigned to 'SWAYAM / NPTEL' courses for every 'FOUR WEEKS' duration.

5.6 Course Code

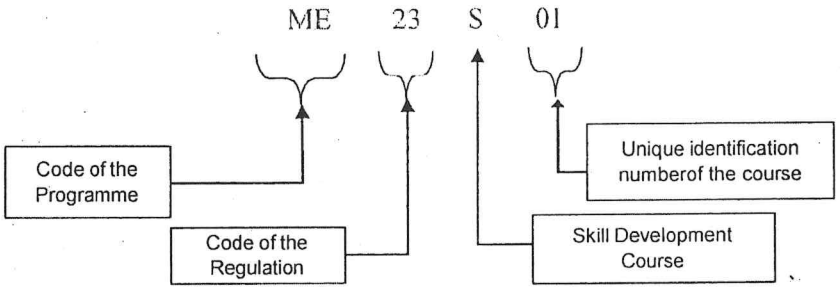
Each course offered by a department under Professional Core Courses category is

assigned with a course code consisting of two alphabets, followed by five numerals. First two alphabets denote the code of the Programme. First two numerals denote the code of the Regulation. Third numeral denotes 'Semester' and last two numerals denotes the unique identification number of the course.

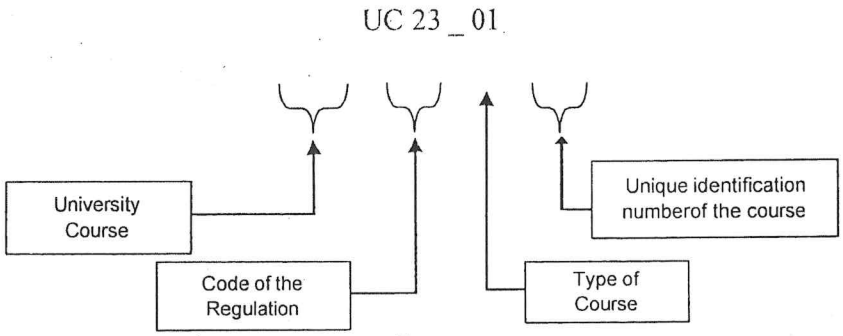
- For example, in B.E., Mechanical Engineering programme, a particular PCC offered in the first semester is denoted as



- For Professional Elective Courses offered by the Department, the third numeral denoting 'Semester' is designated as '0'.
- For Open Elective Courses offered by the Department, the third numeral denoting 'Semester' is designated as '9'.
- For Skill Development Courses offered with respect to discipline, course codes are assigned as follows.



- For University courses offered with common syllabus are assigned code as follows.



Types of courses with designated letters are given as follows;

A – Audit Courses, E – Engineering Entrepreneurship Development Course, H – Heritage Course, P – NCC / NSS / NSO / YRC activities, U – Universal Human Values Course, S – Skill Development Course.

6. Induction Programme

The students shall undergo a mandatory two-week induction programme comprising of physical activity, creative arts, universal human values, general proficiency modules, lectures by eminent people, visits to local areas and familiarization to department / branch immediately after getting admitted in the Institute.

7. Academic Calendar

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

8. Mentoring & Statutory Support for Students

8.1. Faculty Advisor

Departments of VCET 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 15 to 20 students. The faculty advisors offer all the necessary guidance and help in 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. Notwithstanding the above, the following are some of the roles and responsibilities of a faculty advisor:

- Discuss what the student already knows about the Institute 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. Grievance Cell

Institute shall have a 'Student Grievance Committee'. Students shall approach this committee in the event of academic as well as non-academic grievances. This committee shall be constituted by the Head of the Institute, with the approval of the management.

8.3. Guidance and Counselling Cell

Induction Programme shall be conducted by Dean (SA), aimed at offering the admitted students, an interface to understand and interact with the diverse student community in the Institute. With the directions received from the University the Institute has a stringent anti-ragging policy, the programme also doubles up as an excellent icebreaker. The objectives of this induction programme include:

- ❖ Welcoming and orienting the new students by the Departments.
- ❖ Guiding the new students about life at the Institute campus 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 Institute as smooth as possible.

8.4. Common Course Committee

For a course offered to more than one group of students, by more than one 'Course Instructor', a 'Common Course Committee' shall be constituted. This committee comprises of all the course instructors handling that particular course. Based on the recommendations of the respective Head of the Department offering the course, one among the 'Course Instructors' shall be nominated as 'Common Course

Coordinator', as per the course code, by the respective Head of the Department. The Head of the Department shall send the approved list of all such Common Course Coordinators to the Dean (Academics) at the time of finalization of timetable itself. Three meetings shall be conducted in an academic session. Uniform modalities for the conduct of continuous assessments and related activities shall be arrived in the first meeting which shall be convened within TEN working days from the commencement of the semester. Second and third meeting shall be convened after the first assessment and second assessment, respectively, at the discretion of the Common Course Coordinator, to discuss on the performance of the students, etc. It is pertinent that 'Minutes of the Meeting' shall be recorded and the same shall be submitted to the Head of the Department concerned, for information and necessary action. A common question paper shall be set by the Common Course Coordinator for the end semester examination, in consultation with all the 'Course Instructors' of that particular course.

8.5 Class Committee

Every class shall have a class committee consisting of student representatives and a Chairperson who is not handling the class. Its objective is to improve the teaching-learning process.

The class committee for a class under a particular branch is normally constituted by the class committee Chairman nominated by the Principal. The class committee shall be constituted within the first week of each semester and the first meeting shall be convened within one week of constitution of committee in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. At least 4 student representatives (usually 2 boys and 2 girls) shall be included in the class committee. The Principal / HoD may participate in any class committee meeting of the department.

The functions of the class committee include

i. Clarifying the regulations of the degree programme and the details of rules therein (particularly clause 5 and 7) which should be displayed on college Notice-Board.

ii. Identifying the problems experienced by students in the class room and in the laboratories.

iii. Informing the student representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment.

iv. Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.

v. Identifying the needy students, if any, and requesting the teachers concerned to provide additional guidance or coaching to such students.

vi. The Chairperson is required to prepare the minutes of every meeting and submit the same to Principal within two working days of the meeting. The same shall be circulated among the students and faculty members 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 Principal.

vii. Two or three subsequent meetings shall be conducted in a semester at suitable intervals. 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.

9. Class Timings

The classes are usually scheduled between 09:00 AM to 04:10 PM with a tea break from 10:40 AM to 11:00 AM , 3.00 P.M. to 3.20 P..M. and a lunch break from 12:40 PM to 01:20 PM. Additional classes shall be scheduled in the morning and evening hours at the convenience of the Course Instructor to the students opting for Honours / Minor Programmes if required. One Contact Hour is of 50-minute duration. Regular classes are scheduled in a 6-day week, from Monday to Saturday. The course instructors may also schedule some additional classes / examinations / activities with prior approval of the respective Head of the Department.

10. Registration of Courses

10.1. The Institute 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 withdraw courses to a maximum of 9 credits. 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 CoE. This registration is for undergoing the course as well as

for writing the End Semester Examinations.

Courses that a student registers in a particular semester may include

a) Courses of the current semester.

b) Courses dropped in the lower semesters

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

10.2. A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree. From the fifth to final semesters, the student has the option of withdrawing existing courses in a semester during registration. Total number of credits of such courses shall not exceed 9 per semester. The student is permitted to withdraw the course(s) within 30 days of the commencement of the academic schedule.

10.3. Professional Elective Courses shall be selected in the specialized groups given as verticals. Students shall choose the courses from various verticals as specified in the respective curriculum.

10.4. A student can choose all the Professional Elective Courses either from one of the verticals or a combination of courses from more than one vertical in a semester. Minimum registration of 10 students is required to offer a professional elective course and open elective course. This minimum registration of students is not applicable for offering the courses under B.E. / B.Tech.(Hons) and B.E. / B.Tech. Minor Degree.

10.5. A student shall not re-register for the courses which are successfully completed by the student, for any reason(s) whatsoever.

10.6 Value-Added Courses(VAC) / One Credit Courses

One credit courses shall be offered by a Department with the prior approval from the Dean (Academics) and the Head of the Institute. The details of the syllabus, time table and course coordinator may be sent to the CoE 15 days before the commencement of the courses once the approval of the course is completed. Students can take a maximum of two one credit courses during the entire duration of the Programme.

10.7 Online Courses

Students may be permitted to undergo a maximum of three online courses, subject to a maximum of nine credits, with the approval of the HoD and Head of the Institution in

lieu of Open Elective / Professional Elective courses. The Head of the Institution shall form a three member committee with members such as HoD and a faculty member from the Department of the student, HoD of any other branch of the Institution to ensure that the student has not studied such courses and would not repeat it again as Professional Core / Professional Elective / Open Elective courses. Suitable online courses (Not included in curriculum) shall be chosen from the NPTEL platform and student shall appear for Examination and produce the certificate for the same.

11 Attendance Criterion

11.1 The students are expected to attend all the classes without fail. The University mandates a minimum of 75% attendance to the students in each course to be eligible for appearing in the End Semester Examination of the particular course. Attendance of the student is calculated as follows.

$$\% \text{ of attendance} = \frac{\text{Actual No. of Classes attended}}{\text{Total No. of Classes conducted}} \times 100$$

11.2 For medical reasons, if a student is not able to attend classes, 'Medical Certificate' shall be furnished to the Head of the Department concerned, within 5 days from the date of reporting back for class work. In the event of student not able to secure 75% attendance, but has at least 65% attendance, such 'Medical Certificate' shall be considered, with the approval of the respective Head of the Department, to calculate attendance as follows;

$$\% \text{ of attendance} = \frac{\text{Actual No. of Classess Attendaed}}{\text{Total No. of Classes conducted- No.of Classess during the Medical Emergency}} \times 100$$

The student shall be permitted to appear in the End Semester Examinations, if the attendance is 75% and above for each course.

11.3 Under any circumstances, medical certificate(s) submitted after the due date, as stipulated in Clause 11.2 shall not be accepted and in this case, % of attendance of the student is calculated as given in Clause 11.1.

11.4 The student shall be prevented from appearing in the end semester examination for a particular course, if the attendance in that course is less than 75%. Students who are prevented for 'Shortage of Attendance' shall repeat the course, when offered next in the subsequent semester(s) by the Department. If the academic regulation is changed, equivalent courses for PCC & UC categories shall be recommended by the

respective Head of the Department and the student have to undergo these courses for completion of the programme.

11.5 If a student has shortage of attendance in all the registered courses in a semester, the student shall not be permitted to attend the courses of subsequent semester. In such case, the student has to repeat all the courses in the semester, when offered next by the Department.

11.6 The students should get prior approval from the respective Head of the Department to attend campus recruitments, seminars, project works, internships, co-curricular and extra-curricular activities including Sports. For recognized sports activities, permission of the Chairman, Anna University Sports Board has to be obtained through the respective Head of the Department. Only upon prior approval of Head of the Department, attendance for the above said activities shall be considered as 'ON-DUTY'. Additional classes may be conducted by the Department to the student(s) who are participating only in Sports activities, representing the University in the University / State / National / International Level so that such students shall attain the prescribed % of attendance to appear in the End Semester Examinations.

11.7 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 and displayed in the Department notice board within TWO working days from the last day of the semester.

12 Break of Study

12.1 A student is permitted to go on authorized break of study for a maximum period of one year as a single spell.

12.2 Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the student may apply for an additional break of study not exceeding another one year. If a student intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to re-join the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to

the Dean (Student Affairs) and Dean (Academics) in advance, but not later than the last date of registering for the end semester examination of the semester in question, through the HoD and the Head of the Institute stating the reasons therefore and the probable date of re-joining the programme.

12.3 Unauthorized Absence

If a student has not reported officially to the Head of the Department for the entire duration of the semester, without any prior written request (hardcopy or email to official ID of the respective Head of the Department) for 'Break of Study', admission of the student stands cancelled automatically and name of the particular student shall be permanently removed from the roll list, following the University procedure. This University procedure includes prior intimation to the student & parent / guardian through email regarding unauthorized absence, before the end of the first assessment period in the particular semester.

13 Termination

13.1 A student who is not able to complete the requirements for the award of degree, within the maximum permissible duration prescribed, will deem to be automatically terminated from the programme and Transfer certificate shall be issued forthwith.

13.2 Students faced with disciplinary action for any serious offence (For example: ragging) may face premature termination from the programme, based on the recommendations of the disciplinary action committee.

14 Teaching & Evaluation

14.1 The courses to be offered are decided by the Department concerned, taking into consideration all the requirements of the Programme.

14.2 Each course is conducted by a Course Instructor and the Course Instructor has the overall responsibility for successful conduct of class work and shall maintain the attendance and assessment record of the stuldents for the courses handled.

14.3 Semester-wise performance assessment of the student is evaluated through continuous assessments & end semester examinations, and in some courses through continuous assessments only. Each course, theory, practical and theory with practical shall be evaluated for a maximum of 100 marks.

14.4 *Theory (T) Courses*:

Evaluation shall be through continuous assessments and end semester examination. Continuous assessment shall have the weightage of 40% & End semester examination shall have the weightage of 60%.Three assessments each carrying 100 marks shall be conducted during the semester by the Institute. The weightage for the Internal marks is tabulated below:

Internal Assessment				**Internal Marks**
Group Assignment / CaseStudy / Seminar / Mini Project / Open Book Test	**IAT I**	**IAT II**	**IAT III**	**40**
10	**10**	**10**	**10**	

14.5 Laboratory (L) Courses

The maximum marks for Internal Assessment shall be 60 in case of practical courses. Every practical experiment shall be evaluated based on conduct of experiment and records to be maintained. Model Examination shall be conducted at the end of the semester. The criteria for arriving at the Internal Assessment marks of 60 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the Model Examination. The total mark shall be converted into a maximum of 60 marks and rounded off to the nearest integer.

Internal Marks(100*)	
Evaluation of Laboratory Observation,Record	Mode l Exam
75	25

* Internal marks shall be converted into 60 marks

14.6 THEORY COURSES WITH LABORATORY COMPONENT

If there is a theory course with laboratory component, there shall be one/two assessment(s) for theory component (maximum mark is 100) and one assessment for laboratory

component (maximum mark is 100). For assessment, refer clause 14.4 and 14.5

For all theory courses with laboratory component having different L T P C formats, the weightage for internal assessment and End Semester examination will be followed as given in the table below.

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

14.7 Project Work

A student or a group of students (not exceeding four), shall work in a topic of interest, under a faculty, who shall be the Guide and regularly interact (at least twice a week) with the student / group of students. Student(s) shall submit a project report and defend it in front of a panel of examiners, upon which the final grade is awarded. The dates for reviews, submission of reports and viva-voce examination are decided by the respective department. Evaluation shall be through continuous assessments (Three reviews at regular intervals), evaluation of project report and the final viva-voce examination. Project reviews shall be conducted by a committee constituted by the respective Head of the Department, comprising the Guide(s), Project Coordinator and one internal subject expert. Continuous assessment shall have a weightage of 60%. Evaluation of Project thesis report and the final viva voce examination shall have the weightage of 20% each. Break-up of marks is tabulated below. For conduct of the viva-voce examination, one internal from the respective department and one external examiner have to be nominated by CoE.

Weightage for Continuous Assessment & End-Semester Examination for Project Work

Continuous Assessment (60%)			End-Semester Examination (40%)			
			Project Thesis Report Evaluation		Viva-Voce	
Review I	Review II	Review III	Guide	External Examiner	External Examiner	Internal Examiner
10%	20%	30%	10%	10%	10%	10%

14.8 Internship Training:

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 undergoInternship / 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 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. Marks are awarded to the students based on the evaluation with the weightage of 40% for report evaluation, 30% weightage for presentation and 30% weightage for viva-voce examination (out of which 10% marks from the industry concerned), as tabulated below. 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.

Weightage for Continuous Assessment of Internship / Industrial Training

Report	Presentation	Viva-Voce
40%	30%	30%

14.9 For the courses on *'Sustainability'* *and* *'Engineering Entrepreneurship Development'* offered under UC, the evaluation is as per Theory courses with Laboratory component(Clause 14.6).

14.10 Two Courses on *'Heritage'* are offered for appreciation of cultural diversity, promoting inclusivity in the globalized world. One assessment test (40% weightage) and end semester examination (60% weightage) shall be conducted, similar to Theory courses as given in Clause 14.4.

14.11 Student shall opt for TWO *'Audit Courses'* Prescribed in the curriculum Performance of the students shall be evaluated only through continuous-assessment with minimum of 'TWO' tests. Out of two tests, one test shall be conducted as mid-term test and second test shall be conducted at the end of the semester. These two tests shall carry equal weightage. End Semester Examinations shall not be conducted for this course.

14.12 **Self-Learning Courses (SLC)**

(i). Students shall undergo 'one' SLC in the entire programme as prescribed in the respective curriculum of UG Programme. This course shall not be a part of any other course prescribed in the respective UG curriculum, but should be relevant to Engineering and Technology.

(ii). Students shall opt for the courses offered by SWAYAM / NPTEL

(iii). In case the SLC undergone by the student fetches more than one credit, only one credit shall be taken for computation of CGPA, upon successful completion of the course.

14.13 Courses offered under *'Skill Development Course (SDC)'* category shall be evaluated as follows.

(i). For courses under Laboratory type, the evaluation shall be as prescribed in the Clause 14.6

14.14 **Passing Criteria in a Course**

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

(i). ***For Theory, Laboratory, Theory with Laboratory and Skill Development Course*** , 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.

(ii). ***For Project Work,*** a 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 assessments and End semester examination (Project report evaluation & Viva-Voce examination)'.

(iii). ***For Internship***, the student shall secure a minimum 50% of marks in the continuous assessments.

(iv). ***For the courses on 'Sustainability' and 'Engineering Entrepreneurship Development'***, 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.

(v). ***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.

(vi). ***For 'Audit Courses'***, a student shall secure a minimum 50% of marks, in continuous assessments and credits earned shall not be considered for computation of CGPA.

(vii). ***For 'Self-Learning Course'***, a student shall secure a minimum 50% of marks as per the evaluation processes, prescribed by Institute / Firm / Company offering this SLC. However, in the case of the courses offered by NPTEL / SWAYAM, the student shall secure a minimum 40% of marks. Published result of the SLC obtained from the source of learning shall be submitted to the Head of the Department by the student concerned, 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 17.2 (ii) of the regulation. In the case where grade is awarded to SLC,

an equivalent new grade shall be arrived by the Head of the Department concerned, based on the grade point secured by a student.

(viii). ***For 'Off Campus Courses'***, a student shall submit the result of these courses to the Head of the Department, 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 equivalent Grade, adopting the procedure as prescribed in Clause 17.2(ii). of this regulation.

(ix). ***For 'Value Added Courses'***, a student shall secure a minimum 50% marks, as per the evaluation processes, prescribed by the approved Firm / Company offering the VAC. Grade shall be awarded as prescribed in 17.2(ii) of the regulations. Credits earned shall not be considered for computation of CGPA.

14.15 NOT SATISFYING 'PASSING' CRITERIA

Photocopy / Revaluation A student can apply for photocopy of his / her semester examination answer paper in a theory course, as per the guidelines of the CoE, on payment of a prescribed fee through proper application to the CoE through the HoD and the Head of the Institution. The answer script is to be valued and justified by a faculty member, who has handled the course and recommend for revaluation with the breakup of marks for each question. Based on the recommendation, the student can register for the revaluation through proper application to the CoE. The CoE will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Institution. Revaluation is not permitted for practical courses and EEC courses. A student can apply for revaluation of answer scripts for not exceeding 5 courses at a time.

15 Honours Degree

15.1 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 from. Students shall obtain Honours degree by successful completion of additional courses over and above the courses prescribed in the respective curriculum from 'FIFTH' semester onwards.

(i). Students shall earn 18 credits and split up of credits shall be given in the

respective curriculum.

(ii). Eligibility for any student to opt for the Honours degree is that, the student should earn a minimum GPA of 7.5 in 'THIRD' and 'FOURTH' semesters and also students should not have any history of arrears from first semester.

15.2 Six Elective Courses for 'HONOURS' Degree

(i). Students shall opt for 'Honours' Degree by undergoing 'SIX' additional elective courses from the Honours vertical or courses from existing Professional Elective verticals from V to VII semester as listed in the respective curriculum. The student has to earn 18 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 Clause 14.14 for Theory and Theory with Laboratory component courses..

(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 PEC(s). In such case, the student shall be permitted to drop the equal number of PEC(s).

(iv). If the student successfully completes more number of PECs over and above the SIX mandatory courses, 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.

***16* Minor Degree**

16.1 Eligibility for any student to opt for the Minor degree is that the student should earn a minimum GPA of 7.50 in III and IV semesters.

16.2 A student can 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 Clause 14.14 for Theory and Theory with Laboratory component courses.

16.3 In order to get a Minor Degree, a student has to successfully complete the basket of courses as prescribed in the curriculum of the Department offering the Minor Degree and earn 18 extra 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).

16.4 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 OEC(s). In such case, the student shall be permitted to drop the equal number of OEC(s).

16.5 If the student successfully completes more number of OECs 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.

16.6 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.

17 Grading of Courses

17.1 The grades and corresponding grade points are tabulated below.

Grading of Courses

Grade	Description	Grade Points
O	Outstanding	10
A+	Excellent	9
A	Very Good	8
B+	Good	7
B	Average	6
C	Satisfactory	5
U	Re-appearance	0
SA	Shortage of Attendance	0
WC	Withdrawal of Course	0

17.2 (i) Customized grading system shall be followed for all category of courses, based on the average marks obtained and relative performance of the students in a particular course, taking into consideration of passing requirements as per Clause 14.14 of the regulations. Finalization of the grade shall be decided in the Result Passing board meeting.

(ii) Courses categorized under OCC, SLC & VAC and NPTEL /SWAYAM courses, the range of marks for each grade is tabulated below.

Range of Marks for Grades of OCC, SLC and VAC

O	A+	A	B+	B	C	U
91 – 100	81 – 90	71 – 80	61 – 70	56 – 60	50 – 55	< 50

Range of Marks for grading of NPTEL courses

O	A+	A	B+	B	C	U
90 – 100	80 – 89	70 – 79	60 – 69	50 – 59	40 – 49	< 40

18 Calculation of Grade Point Average (GPA) / Cumulative Grade Point Average (CGPA)

18.1 Two parameters, Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) are used to evaluate the academic performance of the student.

18.2 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 students' grade points in these courses are g1, g2, g3, g4 and g5 respectively, then GPA of the student is calculated as:

$$GPA = \frac{(C1 \times g1)+(C2 \times g2)+(C3 \times g3)+(C4 \times g4)+(C5 \times g5)}{(C1+C2+C3+C4+C5)}$$

18.3 At the end of each semester, the student is given with 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.

18.4 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 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 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.

18.5 For the students who have successfully completed the requirements of Honours Degree, grades obtained in the additional courses shall be taken into account for the computation of CGPA.

18.6 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.

18.7 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.

18.8 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.

18.9 The percentage of marks shall be printed in the consolidated grade sheet from the CGPA earned using,

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

19 **Award of Degree**

19.1 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.

19.2 The award of Degree shall be approved by the 'Syndicate'.

19.3 A student who fulfils the criteria as prescribed in Honours Degree as per Clause 18, shall be declared to have successfully completed the degree programme with '**Honours**' and classified under **'First Class with Distinction'**.

19.4 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 in the 'FIRST APPEARANCE' itself, 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 8.50.

(iii). Should not have been prevented from appearing for any end semester examination(s), for the courses prescribed in the curriculum.

19.5 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.

19.6 A student who fulfils the following criteria shall be declared to have successfully completed the degree programme as **'Second Class'.**

(A) 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.

19.7 A student who fulfils the criteria as prescribed in 'Minor Degree' as per Clause 16, shall be declared to have successfully completed the degree programme with '**Minor**' and shall be classified appropriately as per Clause 19.4 or Clause 19.5 or Clause 19.6.

20 Academic Audit

Our Institute shall strive for a better performance of the students by conducting the internal academic audit. In order to ensure the above, Academic Audit is to be done for every course taught during the semester. For the internal assessments conducted for each course, the academic records shall be maintained in the form of documentation for the individual assignments / case study report / report of mini project submitted by each student and assessment test question paper and answer script. Report of industrial training / internship shall also be maintained, if applicable. For laboratory courses students' record shall be maintained. Furthermore, the attendance of all students shall be maintained as a record.

The Head of the Institute shall arrange to conduct the Academic Audit for every course in a semester by forming the respective committees with internal members drawn from various departments of the Institute. In addition at least one External Audit has to be conducted once in a semester.

21 Revision

The Institution may from time to time revise, amend or change the Regulations, curriculum, syllabus and scheme of examinations with the approval of Academic Council.

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