

## 1. PREAMBLE

(For the students admitted to B.E. / B.Tech. programmes from the Academic year 2023-2024 onwards). The regulations hereunder are effective from the academic year 2023-2024 and are applicable to students admitted in IFET College of Engineering, Villupuram affiliated to Anna University, Chennai. Additional clauses may be included with due approval from the Academic Council and the Governing Body, if necessary.

## 2. PRELIMINARY DEFINITIONS AND NOMENCLATURE

- (i) **“Programme”** means Undergraduate Degree Programme. (B.E. / B.Tech. Degree).
- (ii) **“Discipline”** means Branch or Specialization of B.E. / B.Tech. Degree Programme, like Civil Engineering, Computer Science and Engineering, Information Technology, etc.
- (iii) **“Academic Year”** includes two consecutive (one odd + one even) semesters.
- (iv) **“Course”** means Theory or Practical Subject that is studied in a semester like Mathematics, Physics, etc.
- (v) **“Credit”** is a unit by which the course is measured. It determines the number of hours of instructions required per week.
- (vi) **“Grade Point”** is a numerical weight allotted to each letter grade on a 10-point scale.
- (vii) **“Grade Point Average (GPA)”** is the performance of a student in the current semester.
- (viii) **“Cumulative Grade Point Average (CGPA)”** is a measure of overall cumulative performance of a student in all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all semesters. It is expressed up to two decimal places.
- (ix) **“Head of the Institution”** is the Principal of the college who is responsible for implementation of relevant rules of these Regulations.
- (x) **“Dean-Academics”** is the authority of the college who is responsible for all the academic activities, and related rules and regulations.
- (xi) **“Controller of Examinations (CoE)”** is the authority of the college who is responsible for all the activities of End Semester Examinations (ESE).
- (xii) **“Head of the Department”** means Head of the Department concerned.
- (xiii) **“College”** means IFET College of Engineering, Villupuram.
- (xiv) **“University”** means Anna University, Chennai.
- (xv) **“LES”** means Lateral Entry Scheme.
- (xvi) **“ESE”** means End Semester Examination.
- (xvii) **“BoS”** means Board of Studies.
- (xviii) **“Internship”** means a period of work experience offered by an organization.

- (xix) **“In-plant training”** means a period of work experience offered by an industry with or without stipend.

### 3. ADMISSION PROCEDURE

#### 3.1 First Semester Admission

Candidates seeking admission to the first semester of the eight-semester B.E./ B.Tech., Degree programme: Should have passed the Higher Secondary Examination (10 + 2) curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University, Chennai, as equivalent thereto. (OR) Should have passed the Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

#### 3.2 Lateral Entry Admission

The candidates who possess the **Diploma in Engineering / Technology awarded by the State Board 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 in the relevant branches of study. (OR) The candidates who possess the degree in **Science(B.Sc.) (10+2+3 stream)** from a recognized University **with Mathematics** as one of the subjects at the B.Sc. level are eligible to apply for Lateral Entry admission to the third semester of B.E. / B.Tech. Such candidates shall undergo two additional Engineering courses in the third and fourth semesters as prescribed by the College. They should satisfy other eligibility conditions prescribed by Anna University, Chennai, and the Directorate of Technical Education, Chennai, from time to time.

### 4. PROGRAMMES AND BRANCHES OF STUDY

The following programmes approved by Anna University, Chennai, and All India Council for Technical Education, New Delhi, are offered by the college.

Programme	Branch
B.E.	Civil Engineering
	Computer Science and Engineering
	Computer Science and Engineering with specialization in Cyber Security
	Electronics and Communication Engineering
	Electrical and Electronics Engineering
	Mechanical Engineering

B.Tech	Artificial Intelligence and Data Science
	Artificial Intelligence and Machine Learning
	Information Technology

## 5. STRUCTURE OF THE PROGRAMME

Every programme shall have a curriculum with syllabi consisting of theory, practical courses and employability enhancement courses as prescribed by the respective Board of Studies, broadly categorized under:

- (i) **Humanities and Social Sciences (HS)** courses include Language Courses, Management Courses and Professional Ethics.
- (ii) **Basic Sciences (BS)** courses include Mathematics, Physics, Chemistry, etc.
- (iii) **Engineering Sciences (ES)** courses include Engineering Graphics, Engineering Practices, and Basics of Electrical/Electronics/Civil/Mechanical/Computer Engineering, etc.
- (iv) **Professional Core (PC)** courses include the core courses relevant to the chosen specialization / branch.
- (v) **Professional Electives (PE)** courses include elective courses relevant to the chosen specialization / branch.
- (vi) **Open Elective (OE)** courses include the courses relevant to a specialization/branch which a student can choose from the curriculum of other B.E. / B. Tech. programmes and courses offered by other branches.
- (vii) **Employability Enhancement Courses (EEC)** includes Project Work, Internship /Industrial/Workshop / In-plant training / Conference.
- (viii) Additional courses like value added courses are to be conducted during the semester / off semester.

The medium of instruction is English for all the courses, examinations, seminar presentation, projects and all other activities.

### 5.1. CREDIT ASSIGNMENT

Each course is normally assigned a certain number of credits which is calculated as follows:

Description	Contact period per week	Credits
Lecture Period	1	1
Tutorial Period	1	1
Practical Period (Laboratory / Seminar /Project Work)	2	1



## 5.2. ONLINE COURSES

Students may be permitted to take up Online Courses like NPTEL SWAYAM and other globally accepted certified courses. The student can take up the courses from third semester to eighth semester of his/her study with the approval of the committee formed for this purpose.

## 5.3. PROJECT WORK

Category	Semester
Product Development Lab	I, II, III & IV
Final Year Project	VIII

The final year project can be done in-house or industry or research organization in consultation with the project Supervisor and approval of the Head of the Department. The Head of the Department shall constitute a Review Committee for the review of project work. To motivate interdisciplinary research, every student has an option to choose an expert from other department / industry / research organization as a joint supervisor. The choice of a joint supervisor can be made based on the interdisciplinary area of his/her project work with the approval of the Head of the Department and Dean-Academics / Coordinator for Internship (if an industry is involved). In such cases, the Project Work shall be jointly monitored by the Department supervisor and the joint supervisor from the organization. The student shall be instructed to contact the supervisor periodically and to attend the review committee meetings for evaluating the progress of the project work.

## 5.4. ONE CREDIT COURSES

Keeping up with the primary objective of improving the employability skills of students, one credit courses are offered to students. These courses provide an additional learner centric skill oriented technical training that helps in learning new skills, upgrade existing skills and enrich the understanding of a wide range of topics. Formal registration for these courses must be done along with the other regular courses at the beginning of the semester. These courses will be handled by experts from industry/research organization/higher learning institution during the semester holidays.

### 5.4.1 Value Added Courses

Students must do two value added courses, one each in **3<sup>rd</sup> and 5<sup>th</sup> semesters**. The choice of courses can be made from the list of courses offered by various departments based on

industry needs. The course name and the credit for these courses will be reflected in the grade sheet and will be considered for CGPA calculations.

### **5.5. MANDATORY COURSES**

Every student must do two mandatory courses, each one in **1<sup>st</sup> and 2<sup>nd</sup> semesters**. The award of degree will be on successful completion of these courses. There will no End Semester Examination for the mandatory courses.

## **6. DURATION OF THE PROGRAMME**

- 6.1.** The duration of the programme shall be Eight consecutive semesters, spread over 4 academic years, (one academic year consisting of 2 semesters). Each semester shall have a minimum of 75 working days, excluding the days of the end-semester examinations. The Head of the Institutions (HI) 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.
- 6.2.** The HI may conduct additional classes for improvement, special coaching, conduct of model test etc., over and above the specified periods. For the purpose of calculation of attendance requirements for writing the End Semester Examinations by the students, only 450 periods per semester conducted within the specified academic schedule shall be taken into account.
- 6.3.** A student is generally expected to complete the B.E. / B.Tech. Programme in 8 semesters (four academic years) for regular students and 6 semesters (three academic years) for the Lateral Entry students but in any case, not more than 7 years (14 semesters) for regular students and 6 years (12 semesters) for the Lateral Entry students.
- 6.4.** A student is ordinarily expected to complete the B.E. / B.Tech. degree programmes in eight semesters (four academic years) but in any case he / she has to complete the course requirements successfully and has to pass the examinations in all the courses prescribed in the respective curriculum within a maximum period of 14 Semesters (7 academic years) reckoned from the commencement of the first semester to which the candidate was admitted, irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.

## **7. COURSE ENROLLMENT AND REGISTRATION**

- i) The student must confirm the enrollment by registering the courses within the first five working days ahead of re-opening of the semester concerned.
- ii) After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn internal marks and appear for the End Semester Examinations.
- iii) Each student on admission must register for all the courses prescribed in the curriculum in the first semester of study.
- iv) No course shall be offered by a department unless a minimum of 15 students or the entire classes registers for that course.

## **8. REQUIREMENTS FOR COMPLETION OF THE SEMESTER**

A student who has fulfilled the following conditions shall be deemed to have satisfied the requirements for completion of a semester:

- 8.1.** Ideally, every student is expected to attend all classes and secure 100% attendance. However, in order to give provision for certain unavoidable circumstances like medical reasons and participation in sports, the student is expected to secure 75% attendance during the semester. Therefore, the student shall secure attendance not less than 75% in each course (after rounding off to the nearest integer).
- 8.2.** A student who secures attendance between 65% and 74% in the current semester in each course due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in sports events, may be permitted to appear for the current End Semester Examinations, subject to the condition that the student shall submit the medical certificate / sports participation certificate / certificate from the competent authority within THREE working days from the date of re-joining the institution.
- 8.3.** A student shall normally be permitted to appear for the End Semester Examinations of the course if he/she has satisfied the attendance requirements (vide Clause 8.1 – 8.2) and has registered for the examinations in those courses of that semester by paying the prescribed fees.
- 8.4.** Students who do not satisfy clauses 8.1 and 8.2 and who secure less than 65% of attendance in a course will not be permitted to write the End Semester Examinations of that course. Those students have to re-register in the subsequent semester by paying the prescribed fees. They will be permitted to appear for the examinations to clear the arrears only.
- 8.5.** A student who has already passed the examination of a particular course will not be allowed to re-appear in the examinations for the same course for improvement of grades / marks.



## **9. FACULTY ADVISOR**

To help the students in planning their courses of study and for giving general advice on the academic programmes, the Head of the Department will attach a certain number of students to a faculty member who shall function as a Faculty Advisor.

The responsibilities of the Faculty Advisor are:

- (i) To act as a channel of communication between the Head of the Department and Students and Parents.
- (ii) To collect and maintain the statistical details of the students.
- (iii) To help the chairperson of the Class Committee to plan and conduct the meetings.
- (iv) To monitor the academic performance of the students including attendance.
- (v) To motivate the students to participate in extra-curricular activities.
- (vi) To arrange industrial visits, in-plant training, etc.

## **10. ACADEMIC COMMITTEES**

### **10.1. COURSE COMMITTEE**

If a theory course is handled by more than one faculty member, one of the faculty members are nominated as the Course Coordinator by the Head of the Department. The primary role of the Course Coordinator is to schedule regular meetings with the faculty members and provide support for teaching and learning.

### **10.2. CLASS COMMITTEE**

A Class Committee consists of a faculty representative from the respective department, student representatives - cross section of students (academically good, average, and poor) and a chairperson who is a faculty member not handling any course for that class. The objective of the Class Committee is to improve the teaching-learning process. The functions of the Class Committee include:

- i) To address the problems faced by students in the classroom and in laboratories.
- ii) To clarify the regulations and the rules therein.
- iii) To analyze the performance of the students of the class after each internal assessment test, and to find the ways and means to solve problems, if any.
- iv) To identify the weak students, and request the faculty member concerned to provide some additional help or guidance or coaching to those students.

**10.2.1.** The Class Committee for a class under a particular programme is normally constituted by the Head of the Department.

**10.2.2.** The Class Committee shall be constituted within the first 10 working days of the commencement of any semester.

**10.2.3.** At least 6 student representatives (usually 3 boys and 3 girls) shall be included in the Class Committee.

**10.2.4.** The Class Committee shall meet at least twice in a semester:

- i) The first meeting of the Class Committee shall be conducted at the beginning of the semester.
- ii) The nature and weightage of the internal assessments shall be discussed in the first meeting, within the framework of the Regulations.
- iii) The second meeting shall be held immediately after the completion of first internal assessment. During these meetings, the student members shall actively interact and express their opinions and suggestions to improve the effectiveness of the teaching-learning process. It is the responsibility of the student representatives to convey the proceedings of these meetings to the entire class.

**10.2.5.** The Chairperson shall prepare the minutes of every meeting and submit the same to the Head of the Department within two working days after the meeting. The faculty advisor shall arrange for taking the details of the meeting to the faculty members and the students.

## **11. SYSTEM OF EXAMINATIONS**

All B.E. /B.Tech. programmes consist of Theory Courses, Laboratory Courses, Internship and Final Year Project. Appearance in End Semester Examinations is mandatory for courses that are specified in the curriculum.

A candidate shall normally be permitted to appear for End semester examination of the current semester if he / she has satisfied the semester completion requirements (vide Clause 8) and has registered for examination in all courses of that semester by paying the prescribed fee. However, for students having arrear courses of the previous semester(s), in order to write the current end semester examination, the registration is mandatory for the examination of all the courses of that semester and all arrear courses of the previous semester(s) by paying the prescribed fee, failing which, the candidates will not be permitted to move to the higher semester. A candidate who has already appeared for any course in a semester and passed the examination is not entitled to reappear in the same course for improvement of letter grades / marks.

Performance in each course of study shall be evaluated based on (i) Internal assessments throughout the semester and (ii) End Semester Examination. Each course shall be evaluated as shown below:



Sl.No.	Category of Courses	Internal Assessments	End Semester Examinations
1.	Theory	40 Marks	60 Marks
2.	Laboratory	60 Marks	40 Marks
3.	Theory Course with Lab Components	50 Marks	50 Marks
4.	Product Development Lab	100 Marks (Semester I,II &III)	100 Marks (Semester IV)
5.	Project Work	40 Marks	60 Marks

Every faculty member is required to maintain the lesson plan, attendance and assessment record for every semester. Attendance is marked in each theory / laboratory/EE class. The assessment marks and the record of class work (topics covered) are maintained separately for each course by the faculty member. The faculty member should submit these details to the Head of the Department periodically for evaluating the syllabus coverage and the records of assessment marks and attendance. After due verification, the Head of the Department will affix his/her signature along with date. At the end of the semester, the Head of the Department shall verify the records and keep this document in safe custody for five years. The internal assessment marks obtained by the candidate in the first appearance of the End Semester Examinations shall be retained and considered valid for the next three semesters.

#### 11.1. GENERAL PATTERN FOR GRADING OF COURSES

*(Amended as per the directions of the University vide Letter no:5182/AU/CAC/Rel. Grading/2022 dated on 26.9.2022)*

The award of letter grades will be decided based on relative grading principle. The relative grading is applicable to ONLY those students who have passed the examination as per the passing requirements enumerated above. For those students who have not passed the examination, Reappearance (RA) shall be awarded as shown in the below Table.

For those students who have passed the course, the relative grading shall be done. The marks of those students who have passed only shall be inputted in the software developed for relative grading. The evolved relative grading method normalizes the results data using the BOX-COX transformation method and computes the grade range for each course separately and awards the grade to each student. For a given course, if the students' strength is greater than 30, the relative grading method shall be adopted. However, if the students' strength is less than 30 then the fixed grading shall be followed with the grade range as specified below.

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

**The performance of a student shall be reported using letter grades, each carrying certain points as detailed below:**

<b>Letter Grade</b>	<b>Grade</b>
O(Outstanding)	10
A+ (Excellent)	9
A(Very Good)	8
B+ (Good)	7
B (Average)	6
C (Satisfactory)	5
U (Re-Appearence)	0
SA (Shortage of Attendance)	-
UA (Absent)	-
WD (Withdrawal)	-

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: “O”, “A+”, “A”, “B+”, “B”, “C”. SA denotes shortage of attendance 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. “WD” denotes withdrawal from the exam for the particular course. The grades U and WD 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, but has to appear for the end semester examination and fulfil the passing requirements to earn a pass in the respective courses.

If the grade U is given to EEC course (except Project Work), which are evaluated only through internal assessment, the student shall register for the course again in the subsequent semester, fulfil the passing requirements to earn pass in the course. However, attendance requirement need not be satisfied.

In case of anomalies, a committee consisting of a subject expert, HOD, Dean-Academics and the Principal will decide on the grading and marks to be awarded.

## **11.2 PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT**

For all theory, laboratory courses, theory courses with laboratory component and project work the continuous assessment shall be awarded as per the procedure given below:

### 11.2.1 ASSESSMENT OF THEORY COURSES

Two assessment tests each carrying 100 marks shall be conducted during the semester by the Department concerned. Each internal assessment is to be conducted for 100 marks and will have to be distributed in two parts viz., Individual Assignment/Case study/Seminar/Mini project and Test with each having a weightage of 40% and 60% respectively. The total marks obtained in both the assessments put together out of 200, shall be proportionately reduced for 40 marks and rounded to the nearest integer (This also implies equal weightage to the two assessments). One assessment test would be conducted in a day, and they would be of one and a half hour durations each. Students will have regular classes on the assessment days of these tests. In case a student misses the assessment due to medical reasons (hospitalization / accident / specific illness) only one Reassessment shall be given at the end of the semester after getting approval from the Head of the Department/Head of the Institution by the concerned course instructor.

<b>ASSESSMENT I (100 MARKS)</b>	#(Individual Assignment / Case Study / Seminar / Mini Project / any other experiential Learning)	40
	Written Test	60
<b>ASSESSMENT II (100 MARKS)</b>	#(Individual Assignment / Case Study / Seminar / Mini Project / any other experiential Learning)	40
	Written Test	60
<b>Total Internal Assessment</b>		<b>200*</b>

\*The weighted average shall be converted into 40 marks for internal Assessment.

# Any 2 modes to be considered for assessing the internal marks

### 11.2.2. ASSESSMENT OF LABORATORY COURSES

The maximum marks for Internal Assessment shall be 60 marks in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records to be maintained. There shall be at least one test. The criterion 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 test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.



<b>Internal Assessment (100Marks)*</b>	
Evaluation of Laboratory Observation, Record	Test
75	25

\* Internal Assessment marks shall be converted into 60 marks.

### 11.2.3 ASSESSMENT OF THEORY COURSES WITH LABORATORY COMPONENT

Weightage of internal assessment and end semester examination marks will be 50% each. The distribution of marks for the theory and laboratory components in the internal assessments and end semester examination for different types of courses are provided in the table.

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%)

The procedure for the conduct of internal assessments for theory and laboratory components shall be as per the clause 11.2.1 and 11.2.2 respectively.

The weighted average shall be converted into 50 marks for internal Assessment.

The End Semester Examination will be conducted for 3 hours duration (Both for theory and Laboratory) for 100 Marks and the weighted average of each will be converted to 50.

### 11.2.4. ASSESSMENT OF PROJECT WORKS

#### 11.2.4.1 Product Development Lab

In the case of Product Development Lab, the internal assessment shall be 100 marks and there will be no End Semester Examination for first 3 semesters. However, they will be evaluated by conducting reviews at the end of each semester. For Product Development lab IV, the Internal Assessment marks shall be distributed as indicated below.

Internal Assessment (40 Marks)		End Semester Examination (60 Marks)				
Review I	Review II	Project Report(20)		Viva-Voce (40)		
15	25	Internal	External	Internal	External	Mentor
		10	10	10	20	10

### 11.2.4.2 Final Year Project

The student shall register for Project Work in final semester. Project work may be allotted to a single student or to a group of students not exceeding 4 per group.

- a. Project Work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing (i) PG degree or (ii) Ph.D. degree.
- b. The Project Work can be carried out in industry/academic/research institutions. The review meetings, if necessary, may also be arranged in online mode with prior approval from the Head of the Institution and suitable record of the meetings shall be maintained.
- c. The Head of the Institutions shall constitute a review committee for Project Work for each programme. The review committee consists of supervisor, an expert from the Department and a project coordinator from the Department. If the project coordinator/expert member happens to be the supervisor, then an alternate member shall be nominated. In the case of Industrial Project, the review committee shall have the supervisor, the coordinator from industry and the project coordinator from the Department.

There shall be three reviews during the semester VIII by the review committee. The student shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews are for 40 marks.

- d. The project report shall carry a maximum of 20 marks. The project report shall be submitted as per the approved guidelines as given by the Director, Centre for Academic Courses. Same marks shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 40 marks. Marks are awarded to each student of the project group is based on the individual performance in the viva-voce examination.

Internal Assessment (40 Marks)			End Semester Examination (60 Marks)				
Review I	Review II	Review III	Project Report(20)		Viva-Voce (40)		
10	15	15	Internal	External	Internal	External	Supervisor
			10	10	10	20	10

- e. 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 or the student has submitted the project report but did not appear for the viva-voce examination, it will be considered as fail in the Project Work and the student shall re-register for the same in the subsequent semester.

### 11.3. ASSESSMENT OF ONLINE COURSES

Each online course is normally assigned a certain number of credits as follows:

Course Duration	Credits
8 Weeks	3
12 weeks	4
Globally Accepted Certified Course (satisfy clause 5.2)	3

On successful completion of the online or globally accepted certified courses, he/she has to submit the copy of the certificate to the Head of the Department. Any one online course / globally accepted certified course can be considered for waiving of one three credit elective course. Maximum of two electives can be waived through these online courses by a student during his / her period of study. Once considered for exemption, the recommendation will be sent to the Controller of Examinations after the approval of the Dean-Academics.

Credits earned through SWAYAM, NPTEL or globally accepted certified courses can also be utilized for the award of Honours degree with due approval from Head of Institution / Dean Academics and CoE. Therefore, credits earned through SWAYAM, NPTEL courses once utilized for exemption for an elective course cannot be considered for the award of Honours degree. Online courses will be assessed on the submission of certificates and the letter grades shall be awarded as given in the Table below.

The students shall be permitted to write the examinations conducted by the NPTEL and transfer the marks obtained by the students into equivalent grades as per the regulations. A Committee shall be constituted by the respective Departments and evaluate the marks and assign the grades with the approval of Dean-Academics / Principal.

- The online course shall be recommended by the Dean-Academics / Principal.
- A student may withdraw from an online course before the date of the examination. It will not be considered as an attempt
- If a student fails in the course as evaluated by the NPTEL offering the course, student shall be considered as FAIL.
- If students pass the course as evaluated by the NPTEL offering the course, the absolute grading system shall be followed and the letter of grades are awarded as follows.

O	A+	A	B+	B
88 - 100	76 - 87	64 – 75	52 – 63	40 – 51



#### 11.4. ASSESSMENT OF INTERNSHIP

The student may undergo Internship in Research organizations / Industry (after due approval from the coordinator for Internship of the Department concerned) in the semester prescribed in the curriculum. The credits earned will be indicated in the grade sheet. The student is allowed to undergo Internship during the summer and winter vacation and the weightage of Internship is 2 Credits.

#### 11.5. ASSESSMENT OF ONE CREDIT COURSES

These courses shall be evaluated by the respective course coordinator within 10 days of the completion of the Programme. If a candidate who registers for a Value Added Course does not successfully complete it, he/she will be automatically treated as failed in that course. On the other hand, he/she can re-register for the same course and successfully complete it by rewriting the in-semester examination before the commencement of next semester. The performance of the students is evaluated through internal examination for 100 marks and the letter grades shall be awarded as per the clause 11.1.

### 12. REQUIREMENTS FOR APPEARING FOR END SEMESTER EXAMINATION

- 12.1. A candidate shall normally be permitted to appear for End Semester Examination of the current semester if he / she has satisfies the semester completion requirements (vide Clause 8) and has registered for examination in all courses of that semester by paying the prescribed fees.
- 12.2. However, for students having arrear courses of the previous semester(s), in order to write the current end semester examination, the registration is mandatory for the examination of all the courses of that semester and all arrear courses of the previous semester(s) by paying the prescribed fees, failing which, the candidates will not be permitted to move to the next semester.
- 12.3. A candidate who has already appeared for any course in a semester and passed the examination is not entitled to reappear in the same course for improvement of letter grades / marks.

#### 12.4. SPECIAL SUPPLEMENTARY EXAMINATION

At the end of VIII semester regular examinations, a candidate **who has one or two arrears**, only in the VII and VIII semesters, will be eligible for appearing for the special supplementary examination immediately after the publication of the results of challenging the valuation. Students who have more than two arrears in VII and VIII semesters and arrears from I semester to VI semester are not eligible to appear for the special supplementary examination. The Controller of Examinations shall publish the

schedule for the special supplementary examination. The pattern of evaluation shall be the same as that of the End Semester Examination. Such appearance in special supplementary examination shall be treated as another attempt and it will be reflected in the grade sheet.

### **13. PASSING REQUIREMENTS AND PROVISIONS**

**13.1.** A student, who secures not less than 50% of total marks prescribed for a course, comprising a minimum of 45% of the marks in the End Semester Examination, shall be declared to have passed the course successfully and earned the prescribed credits for that course. If a student fails to secure a pass in a particular course, i.e. failing to obtain minimum marks, as stated above, should register and reappear for the examination in that course in the subsequent semester whenever the examinations are conducted in that course, till he /she secures a 'Pass'.

**13.2.** As per AICTE norms, the minimum number of total credits to be earned by a student to qualify for the award of Degree is **160 for regular students and 120 for lateral entry students**. Total credits to be earned to qualify for the award of Degree shall vary across departments and shall not be less than the minimum specified above.

**13.2.1 Student Migration and Credit Transfer:** If a student migrates from other institution to IFET College of Engineering, normalization of the Credits will be carried out in consultation with the Chairman, Board of Studies / Head of the Department and Dean-Academics for the inclusion /exceptions of courses if any as per the regulations and the same shall approved by the Head of Institution. Student migration and credit transfer are acceptable even from the non-autonomous colleges. Transfer is not possible for the even semester and in the first semester. Transfer is subject to the approval of DOTE, Chennai.

**13.3.** A student shall be declared to have qualified for the award of B.E. /B.Tech. Degree when he/she successfully completes the course requirements and pass in all the prescribed courses of study of the respective programme listed in Clause 5, within the duration specified in Clause 6.

### **14. AWARD OF LETTER GRADES**

**14.1.** The assessment will be based on marks awarded to the students in the End Semester Examinations.

- 14.2.** All assessments for a course shall be done on absolute mark basis. The performance of a student will be reported using Letter Grades, each carrying certain points as per clause 11.1.

**14.3. PHOTOCOPY / REVALUATION**

A student, who seeks the revaluation of the answer script, is directed to apply for the photocopy of his/her semester examination answer script(s) in the theory course(s), within 4 working days from the declaration of results in the prescribed format to the Controller of Examinations through the Head of the Department. On receiving the photocopy, the student can consult with a competent faculty member and seek the opinion for revaluation. Based on the recommendations, the student can register for the revaluation through proper channel to the Controller of Examinations who shall arrange for the revaluation and declare the results. Revaluation is not permitted to the courses other than theory courses. In case of theory courses with laboratory component, a student can seek revaluation for the theory component only, following the procedure stated above. A student can apply for revaluation of answer scripts for not exceeding 4 subjects at a time.

**14.4. CHALLENGING VALUATION**

Candidates not satisfied with Revaluation can apply for Challenging valuation of his/ her examination answer script in a theory course, within the stipulated period on payment of prescribed fee through proper channel to the Controller of Examinations. Candidates applying for Revaluation alone are eligible to apply for Challenging valuation.

**15. ELIGIBILITY FOR THE AWARD OF THE DEGREE**

**A student shall be declared to be eligible for the award of the B.E. / B.Tech. Degree provided**

- 15.1.** The student has successfully earned the required number of total credits as specified in the curriculum corresponding to his/her programme within the stipulated period.
- 15.2.** Successfully completed the course requirements, appeared for the End Semester Examinations and passed all the courses prescribed in all the 8 semesters within a maximum period of 7 years (6 years in the case of Lateral Entry) reckoned from the commencement of the first (third in the case of Lateral Entry) semester to which the candidate was admitted.
- 15.3.** The student has successfully completed any additional courses prescribed by the HOD, Dean-Academics, the Principal and the Academic Council whenever, any candidate is readmitted under the regulations IFETCE-R2019 (vide clause 20.3)



**15.4.** The student has no disciplinary action pending against him/her.

## **16. CLASSIFICATION OF THE DEGREE AWARDED**

### **16.1. ELIGIBILITY FOR HONOURS DEGREE**

Students who are not identified as academically weak can take additional courses and earn additional credits after the first. These additional credits earned in specified focused area can be utilized for Honours degree.

An honour is not indicative of class rather it is an additional credential to a student who earned additional 18 credits in his/her own discipline. On accumulation of credits at the end of programme with **CGPA of 8.5**, this will be mentioned in the degree certificate as “Bachelor of Engineering / Technology in XXX with Honours”, subject to the approval of Anna University. This will also be reflected in the transcript, along with list of courses taken.

#### **1. B.E / B.Tech. Honours (Specialization in the same discipline), B.E / B.Tech.(Honours)and B.E / B.Tech.Minor in other specialization.**

##### **(i). B.E./B.Tech. (Hons) (Specialization in the same discipline):**

- a. The student should have earned additionally a minimum of 18 credits from a vertical of the same programme.
- b. Should have passed all the courses in the first attempt.
- c. Should have earned a minimum CGPA of 7.50.

##### **(ii) B.E/B.Tech. Honours:**

- a. The students should have earned additional courses (minimum of 18 credits) from more than one vertical of the same programme.
- b. Should have passed all the courses in the first attempt.
- c. Should have earned a minimum CGPA of 7.50.

##### **(iii). B.E./B.Tech. (minor in other Specialisation)**

- a. The student should have earned additionally a minimum of 18 credits in any one of the verticals of other B.E / B.Tech. programmes
2. Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits as approved by Centre for Academic Courses.
3. B.E/B.Tech. (Hons) Specialisation in the same discipline, B.E/B.Tech Honors and B.E/B.Tech. minor in other Specialisation degree will be optional for students.
4. For the categories 1 (i) to 1(ii), the students will be permitted to register the courses from V Semester onwards provided the marks earned by the students until III semester should be of CGPA 7.50 and above and cleared all the courses in the first attempt.

5. For the category (iii), the students will be permitted to register the courses from Semester V onwards provided the marks earned by the students until Semester III is CGPA 7.50 and above.
6. If a student decides not to opt for Honours, after completing certain number of additional courses, the additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.
7. If a student decides not to opt for Minor, after completing certain number of courses, the additional courses studied shall be considered instead of Open Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of open electives required as per the curriculum, the courses with higher grades shall be considered for calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.

**Regulations: IFETCE-R2023 (UG)**

Degree (i)	Duration of Programme (ii)	Duration permitted (iii)	Additional Credits above the Requirement of Curriculum (iv)	CGPA (v)	Passing (vi)	Break of study (vii)	Prevention Due to lack of attendance (vii)	Approved withdrawal from writing the end semester examination
<b>B.E./B.Tech Honours Degree-First class with Distinction</b>								
B.E./B.Tech. (Honours) Specialization in The same discipline	3/4 years (Lateral entry, Regular, respectively)	4/5 Years	18 credits From any one vertical of the same programme	8.50	First attempt	One year authorized break of study included in the duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech. (Honours)	3/4 years (Lateral entry, Regular, respectively)	4/5 Years	18 credits From more than one Vertical of the same programme	8.50	First attempt	One year authorized break of study included in the duration permitted(iii)	Not permitted	Will not be considered as an attempt
<b>B.E./B.Tech Honours Degree with First Class</b>								
B.E./B.Tech. (Honours) Specialization in the same discipline	3/4 years (Lateral entry, Regular, respectively)	4/5 Years	18 credits From any one vertical of the same programme	7.50	First attempt	One year authorized break of study included in the duration permitted(iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech. (Honours)	3/4 years (Lateral entry, Regular, respectively)	4/5 Years	18 credits From any one vertical of the same programme	7.50	First attempt	One year authorized break of study	Not permitted	Will not be considered as an attempt



## 16.2. 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 19) 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.

**Regulations: IFETCE-R2023 (UG)**

<b>Degree (i)</b>	<b>Duration of Programme (ii)</b>	<b>Duration permitted (iii)</b>	<b>Additional credits above the requirement of Curriculum (iv)</b>	<b>CGPA (v)</b>	<b>Passing (vi)</b>	<b>Break of study (vii)</b>	<b>Prevention Due to lack of attendance (vii)</b>	<b>Approved withdrawal from writing the end semester examination (viii)</b>
B.E./B.Tech. (Regular)	4 years	5 years	-	8.50	First Attempt	One year authorized break of study included in the duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech. Lateral Entry	3 years	4 years	-	8.50	First Attempt	One year authorized break of study included in the duration permitted(iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech. minor in other specialisation	3/4 years (Lateral entry, Regular, respectively)	4/5 years	18 credits From any one vertical of the other programme	8.50	First Attempt	One year authorized break of study included in the duration permitted (iii)	Not permitted	Will not be considered as an attempt

### 16.3. 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 (6 semesters in the case of Lateral Entry) within five years. (Four years in the 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.



**Regulations: IFETCE-R2023 (UG)**

<b>Degree (i)</b>	<b>Duration of programme (ii)</b>	<b>Duration permitted (iii)</b>	<b>Additional credits (iv)</b>	<b>CGPA (v)</b>	<b>Passing (vi)</b>	<b>Break of study (vii)</b>	<b>Prevention due to lack of attendance</b>	<b>Withdrawal from writing end semester examination(viii)</b>
B.E./B.Tech. Minor in other specialization	3/4 years(Lateral entry, Regular, respectively)	3/4 years (Lateral entry, Regular, respectively)	18 credits From any one vertical of the other programme	6.50	-	One year authorized break of study included in the duration permitted (iii)	Included in the Duration permitted (iii)	-
B.E./B.Tech. Regular)	4 years	5 years	-	6.50	-	One year authorized break of study included in the duration permitted (iii)	Included in the Duration permitted (iii)	-
B.E./B.Tech. Lateral Entry	3 years	4 years	-	6.50	-	One year authorized break of study included in the duration permitted (iii)	Included in the Duration permitted (iii)	-

#### 16.4. SECOND CLASS

All other students (not covered in clauses 16.1, 16.2 and 16.3) who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in Second Class.

#### 17. GPA & CGPA CALCULATION

After completion of the evaluation process, the Grade Point Average (GPA) is calculated using the following formula:

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

Where  $C_i$ : Credit allotted to the course.

$G_i$ : Grade Point secured corresponding to the course.

$n$  – Number of 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. “RA”, “AB” and “W” grades will be excluded for calculating GPA and CGPA.

#### 18. RANK

Ranks are awarded for each programme based on the following criteria.

1. The number of ranks awarded for each programme is a maximum of 6 or 10% of the students' intake in that programme.
2. The rank of a student is determined from the CGPA. However, students who have scored less than **7.5 CGPA** will not be eligible for a rank.
3. Students should have passed the End Semester Examination in all the courses of all the eight semesters (six semesters in case of LES) in his/her First Appearance without any temporary discontinuation of study.
4. However, for other students, a statement indicating their position in the programme will be given on request, based on the CGPA, provided they have passed all the courses within four years (three years in case of LES) of their study.

**Regulations: IFETCE-R2023 (UG)****19. WITHDRAWAL FROM THE EXAMINATION**

- 19.1.** A candidate may for valid reasons and on prior application, be granted permission to withdraw from appearing for the examination of any one course or consecutive examinations of more than one course in a semester examination.
- 19.2.** Such withdrawal shall be permitted only once during the entire period of study.
- 19.3.** Withdrawal of application is valid only if it is made within 10 days prior to the commencement of the examination of that course(s) and recommended by the Head of Institution and approved by the Controller of Examinations.
- 19.4.** Even though the mandatory requirement is 10 days' notice, applications for withdrawal under extraordinary conditions will be considered on the merit of the case.
- 19.5.** Withdrawal shall not be construed as an appearance for the eligibility of a candidate for **First Class with Distinction**.
- 19.6.** Withdrawal from the End Semester Examination is **NOT** applicable to arrear courses of previous semesters.
- 19.7.** The candidate shall reappear for the withdrawn courses during the examination conducted in the immediate semester.
- 19.8.** Withdrawal shall not be permitted in the final semester examinations.
- 19.9.** Withdrawal shall not be permitted for all courses in a semester. He/she has to appear at least for one course in a semester. Otherwise it shall be considered as temporary discontinuation.

**20. TEMPORARY DISCONTINUATION OF THE PROGRAMME**

- 20.1** A student is normally not permitted "Temporary Discontinuation" of the programme. However, if a student intends to temporarily discontinue the programme in the middle for valid reasons (such as accident or hospitalization due to prolonged ill health) and to rejoin the programme in a later semester, the student shall apply in advance to the Principal, through the Head of the Department, stating the reasons thereof, in any case, not later than the last date for registering for that semester examination in the prescribed format.
- 20.2** The maximum period of discontinuation of programme is ONE YEAR. The discontinuation of programme will be approved by the Academic Council.
- 20.3** The student will be permitted to rejoin the programme after discontinuation of the programme and shall be governed by the rules and regulations in force at the time of rejoining with due approval of DOTE, Chennai.
- 20.4** The student rejoining after the discontinuation of the programme will be required to earn the minimum number of credits for the award of degree. The Board of Studies will determine the courses to be studied or equivalent courses to be studied.



**Regulations: IFETCE-R2023 (UG)**

**20.5** The approved period of discontinuation of the programme (maximum of one year) will not be counted as period specified for completion of course and for the classification of degree.

**20.6** If any student is detained for want of requisite attendance or due to disciplinary action, the period spent in that semester shall not be considered as permitted 'Temporary Discontinuation of the Programme'.

**21. PERSONALITY AND CHARACTER DEVELOPMENT**

Further, every student shall be involved in any one of the personality and character development programmes such as NSS/YRC and undergo the training during the first two years of study.

**22. FAST TRACK SCHEME**

Fast Track Scheme is a unique opportunity for the students with good academic record to complete the seventh & eighth semester theory courses of the programme in the fifth or sixth semesters. Students may avail this period to 'Audit' courses or for internship in reputed organizations. Students can complete the VIII semester Project Work in well reputed Industries / organizations offering placement to the students / R & D organizations / Premier Institutions both in India and abroad, as part of their final year project.

- Students who are in the VI semester with a minimum CGPA of 7.5 upto V semester with no standing arrears are eligible to complete the courses under fact track scheme.
- They should apply for the scheme through their HoD to Dean-Academics, who will forward it to the COE within 3 days from the date of publication of V semester results for VI semester of their study.

**22.1 GUIDELINES TO BE FOLLOWED**

The Fast Track option requires students to attend the two evening classes of 4 periods duration per week for the VIII semester courses during their VI and VII semesters of their study. If required, students need to attend the additional classes during the weekends to satisfy the curriculum requirements.

**23. DISCIPLINE**

Every student is required to observe proper discipline and decorum both inside and outside the college and not to indulge in any activity which will lower the prestige of the college. The Principal shall constitute a Disciplinary Committee consisting of himself (the Principal) and two HODs, of whom one should be from the department to which the student belongs, to enquire into the acts of indiscipline and notify the Principal about the disciplinary action recommended, for approval.

Regulations: IFETCE-R2023 (UG)

## **24. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI**

The college shall, occasionally, revise, amend or change the regulations, scheme of examinations and syllabi, if found necessary.

