

ANNA UNIVERSITY :: CHENNAI - 600 025

**FRANCIS XAVIER ENGINEERING
COLLEGE
(Autonomous)**

COMMON TO ALL B.E./B.TECH. PROGRAMMES

**(For Students admitted to the B.E./B.Tech. Programme
under Autonomous from 2024-2025 onwards)**

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REGULATIONS - 2024

CHOICE BASED CREDIT SYSTEM

VISION

To Provide education in Engineering with excellence and ethics and to reach the unreached

MISSION

To create innovative and vibrant young leaders and entrepreneurs in Engineering and Technology for building India as a super knowledge power and blossom into a University of excellence recognized globally

Preface

As we embark on this academic journey together, we are guided by the vision of Francis Xavier Engineering College to foster innovative minds and empower students to excel in their chosen fields. Our mission is to provide high-quality education, emphasizing theoretical foundations, practical skills, and ethical values, while nurturing a culture of innovation, collaboration, and social responsibility. Our chairman's objective is to create a world-class engineering institution that produces socially responsible, environmentally conscious, and technically proficient professionals, capable of meeting the challenges of the 21st century. To achieve this, we offer a range of undergraduate and postgraduate programs in engineering, designed to equip students with the knowledge, skills, and attitudes necessary to succeed in their chosen careers. Our multidisciplinary approach, industrial-applied labs, and emphasis on skill development prepare students to tackle real-world problems and create innovative solutions. We also foster a startup culture, encouraging students to turn their ideas into reality and become entrepreneurs and job creators. This regulation book outlines the framework that governs our academic programs, ensuring that our students receive a comprehensive and rigorous education that prepares them for a lifetime of learning, professional growth, and contributions to society.

Programs Offered

- Bachelor of Engineering (B.E.) in:
 - Computer Science and Engineering
 - Civil Engineering
 - Electronics and Communication Engineering
 - Electrical and Electronics Engineering
 - Mechanical Engineering
 - Computer Science and Engineering(Artificial Intelligence and Machine Learning)
- Bachelor of Technology(B.Tech)in:
 - Artificial Intelligence and Data Science
 - Information Technology
 - Computer Science and Business Systems
- Master of Engineering (M.E.) in:
 - Computer Science and Engineering
 - Industrial Safety Engineering
 - Communication Systems
 - Power Electronics and Drives
- Master of Business Administration(MBA)
- Master of Computer Applications(MCA)
- Ph.D. in Engineering

REGULATIONS 2024

CHOICE BASED CREDIT SYSTEM AND OUTCOME BASED EDUCATION

Common to all B.E. /B.Tech. Programmes

(For the Students admitted to B.E./B.Tech. Programme from 2024-2025 onwards)

DEGREE OF BACHELOR OF ENGINEERING/BACHELOR OF TECHNOLOGY

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

A. In this regulation, unless the context otherwise requires:

- II. **“Degree”** means the academic award conferred upon a student on successful completion of a four-year programme deliberate to achieve the defined attributes. It is referred to as an Under-Graduate (UG) Degree that is “Bachelor of Engineering (B.E.) / Bachelor of Technology” (B.Tech.)
- III. **“Programme”** means cohesive arrangement of courses, co-curricular and extracurricular activities to accomplish predetermined objectives leading to the awarding of a degree. It also means branch or discipline of B.E./B.Tech. Degree programmes like Civil Engineering, Mechanical Engineering, etc.
- IV. **“Discipline”** means Branch or Specialization in B.E./B.Tech. Degree Programme, viz., Civil Engineering, Information Technology etc.
- V. **“Course”** means an arrangement of theory, tutorials and Theory cum Practical Laboratory sessions of a subject studied in a semester like Mathematics, Physics, Chemistry, Python Programming, Engineering Mechanics etc.,
- VI. **“University”** means Anna University, Chennai.
- VII. **“DOTE”** means Department of Technical Education, It is a government department responsible for overseeing and regulating technical education in a state
- VIII. **“Head of the Institution”** means the Principal of the Institution.
- IX. **“Controller of Examinations”(CoE)** means the authority of the Autonomous Institute who is responsible for all activities of the assessments and Examinations.
- X. **“Dean Academics”** means the authority of who is responsible for all academic activities of the Departments for implementation of relevant Rules and Regulations.
- XI. **“Chairman, BoS”** means Chairman, Board of Studies of each faculty.
- XII. **“Head of the Department”** means Head of the Department concerned.
- XIII. **“Credit”** means a numerical value allotted for each course.
- XIV. **“Grade”** means the letter grade assigned to each course based on the range of marks specified.
- XV. **“Grade Point”** means a numerical value (0 to 10) allotted based on the grade assigned to each course.
- XVI. **“LES”** means Lateral Entry Scheme.
- XVII. **“CBCS”** means Choice Based Credit System.
- XVIII. **“ OBE” means Outcome Based Education**
- XIX. **“L – T – P –C-H”** refers to Lecture, Tutorial, Practical, Credits and Hours respectively

- XX. **“Curriculum”** refers to the various components / courses studied in each programme that provide appropriate outcomes (Knowledge, Skills and Attitude/ Behaviour) in the chosen branch of study.
- XXI. **“HSS“Humanities and Social Sciences (HSS) including Management Courses**
- XXII. **“Basic Sciences”** (BS) Courses include Mathematics, Physics, Chemistry, Biology, etc.
- XXIII. **“Engineering Sciences”** (ES) Courses include Engineering Practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.
- XXIV. **“Professional Core”** (PC) Courses include the core courses relevant to the chosen specialization / branch.
- XXV. **“Professional Elective”** (PE) Courses include the elective courses relevant to the chosen specialization/ Programme
- XXVI. **“Open Electives”** (OE) Courses include the courses which a student can choose from the curriculum of other B.E./B. Tech. programmes. These courses may be offered by Internal/External experts.
- XXVII. **“Project Work”** (PW) refers to the Capstone project done by a student or a group of students during the final year.
- XXVIII. **“EEC”** means Employability Enhancement Courses includes Project Work and /or Internship, Seminar, Industrial /Practical Training, Value Added and Certificate Courses.
- XXIX. **“Value Added Courses”** (VAC) means a course that will be offered by the department, which could be selected by any student in the college
- XXX. **“Industry Supported Course”** (ISC) means a course offered by experts from industry/ research organizations and approved by the Academic Consultative Committee.
- XXXI. **“Online Course”** (OC) includes courses offered under the Global Initiative of Academic Networks (GIAN) program of MHRD, NPTEL, Swayam.
- XXXII. **“Self Study Course”** (SSC) means students can study the course under the guidance of course coordinator
- XXXIII. **“Credit Transfer”** refers to the process of transferring credits earned from courses completed in industry or online platforms to equivalent Professional Electives or Open Electives in the academic curriculum
- XXXIV. **“Academic Council”** (AC) is a panel established within the institution to provide guidance and advice on academic matters to ensure the quality and effectiveness of academic programs and curriculum. The committee consists of Principal, Dean Academics, CoE, HoD concerned.
- XXXV. **“Department Consultative Committee”**(DCC) serves as a consultative body that provides valuable insights, expertise, and recommendations to support the department's growth, development, and effectiveness in delivering high-quality education and research of the department. The committee typically consists of HOD & faculty members from various ranks within the department and Mentor of the students
- XXXVI. **“Curriculum Advisory Committee(CAC)** provides expert guidance on curriculum development, ensuring relevance and industry alignment. Comprising diverse stakeholders, the

CAC reviews, revises, and recommends updates to foster effective learning. By bridging academia and industry, the CAC shapes curricula for successful careers and lifelong learning.

2. ADMISSION PROCEDURE

a. First Year – Regular Admission

The minimum eligibility for admission to **I Year** B.E./B.Tech. Degree Programmes (Regular) shall be based on the following two essential criteria:

- i. Students for admission to the first semester of the eight semester B.E. / B.Tech. Degree Programme shall be required to have a pass in Higher Secondary Examination (Academic 10 + 2) Curriculum or its equivalent examinations with Mathematics, Physics and Chemistry or any other examinations of any other University or authority accepted by the University/Directorate of Technical Education as equivalent thereto.

(OR)

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

b. Lateral Entry Admission

- i. 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 branch corresponding to the branch of study or in the eligible branch of study.

(OR)

- ii. The candidates who possess the Degree in Science (B.Sc.,) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Levels are eligible to apply for Lateral entry admission to the third semester of B.E/B.Tech. Such candidates shall **undergo additional Engineering subject(s)** in the **third and fourth semesters** as prescribed by the **Academic Council**

c. Minimum Eligibility

The eligibility criteria such as marks, number of attempts and physical fitness shall be as prescribed by the University/ DOTE from time to time.

3. PROGRAMMES OFFERED

Table 1 : List of Programme offered

B.E. Degree Programmes	B.Tech. Degree Programme
<ul style="list-style-type: none"> ● Civil Engineering ● Computer Science and Engineering ● Electronics and Communication Engineering ● Electrical and Electronics 	<ul style="list-style-type: none"> ● Artificial Intelligence and Data science ● Computer Science and Business Systems ● Information Technology

Engineering <ul style="list-style-type: none"> ● Mechanical Engineering ● Computer Science and Engineering (Artificial Intelligence & Machine Learning) 	
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A student may be offered admission to any one of the programmes of study approved by the University. The credit range for each programme is 160 – 165.

4. STRUCTURE OF THE PROGRAMMES

4.1. Every B.E. / B. Tech. Programme will have a curriculum with syllabi consisting of theory ,theory cum practical and practical courses that shall be categorized as follows:

- 4.1.1. **Humanities and Social Sciences including Management Courses (HSM)** include Technical English, Employability Skills, Engineering Ethics and Human Values,Communication skills and Management courses.
- 4.1.2. **Basic Science Courses (BS)** include Mathematics, Physics, Chemistry
- 4.1.3. **Engineering Science Courses (ES)** include Engineering Practices, Engineering Graphics, Basics of Civil/Electrical / Electronics / Mechanical / Computer Engineering, etc.,
- 4.1.4. **Professional Core Courses (PC)** include the core courses relevant to the chosen specialization/branch.
- 4.1.5. **Professional Elective Courses (PE)** include the courses offered by a branch to its students, from the list specified in the respective curriculum of the B.E. / B. Tech Programmes
- 4.1.6. **Open Elective Courses (OE)** include the courses offered by a branch to other branches, from the list specified in the respective curriculum of the B.E. / B. Tech Programmes
- 4.1.7. **Employability Enhancement Courses (EEC)** include Project Work, Internship,Career Development Skills, Creative and Innovative Project, Seminar, Professional Practices, Case Study and Industrial/Practical Training.
- 4.1.8. **Mandatory Non CGPA Courses (MC)** include NSS,YRC,Club activities and Environmental Science and Engineering.

Table 2: Credit Details

S. No	Category of Courses	Regular Credits	Lateral Credit
1	Humanities and Social Sciences including Management Courses (HSM)	12	5-9
2	Basic Science Courses (BS)	18-25	4-8

S. No	Category of Courses	Regular Credits	Lateral Credit
3	Engineering Science Courses (ES)	25-27	3-7
4	Professional Core Courses (PC)	56-63	56-63
5	Professional Elective Courses (PE)	18	18
6	Open Elective Courses (OE)	12	12
7	Employability Enhancement Courses (EEC)	21-22	21-22
8	Mandatory Non CGPA Courses (MC)	-	-
TOTAL		160-164	120-124

5. PERSONALITY AND CHARACTER DEVELOPMENT PROGRAMME

Upon admission, all students must enroll in one of the following personality and character development programs: NSS, NSO, YRC, Technical Clubs, or Non-Technical Clubs. They are required to undergo approximately **60 hours of training and participate** in an activity spanning about 5 days, which includes classes on hygiene, health awareness, and first-aid training. The National Service Scheme (NSS) focuses on social service activities in and around the college, including practical projects on recycling and reusing waste. The National Sports Organization (NSO) involves sports, games, drills, and physical exercises. The Youth Red Cross (YRC) engages in social service activities within the local community. Technical and Non-Technical Clubs conduct various activities within the college campus, primarily on weekends. **To complete the course, students must conduct, participate in, or volunteer for these activities for a total of 60 hours before his 07 semester..** These programs aim to enhance students' personal and social responsibility, physical fitness, and technical and non-technical skills.

Technical Clubs	Non Technical Clubs	Servicing Schemes
FX Robotics Club	FX English Proficiency Club	National Service Scheme
FX Electronics Club	FX Readers Club	

Contact period per week (of 50 minutes duration per period)	CREDITS
1 Lecture Period	1
1 Tutorial Period	1
2 Practical Periods	1
2 Project Work	1
4 Week NPTEL /SWAYAM courses	1
2 week Internship	1

11. INDUSTRIAL VISIT

Every student is required to go for at least one Industrial Visit every semester starting from the First year of the Programme. Industrial visits may be scheduled anywhere in between the progress of the academic semester. The Heads of Departments shall ensure that necessary arrangements are made in this regard.

12. INDUSTRIAL TRAINING/INTERNSHIPS

- 12.1.** The students may undergo Industrial training for a continuous period as specified in the Curriculum During the summer(May/June) / winter vacation(December). The students may undergo Internship at Research organization / industry (after due approval from DCC) for the period prescribed in the curriculum during the summer / winter vacation, in lieu of Industrial training. [Students can pursue internships in industries with over 5 years of existence, research organizations \(government: ICMR, CSIR, IIT, IISc, DRDO, ISRO, NIO, IITM; private: TIFR, Reliance Industries Ltd., Infosys Ltd., Wipro Ltd., IBM Research and Development India, Microsoft Research India, Google Research India, Bharat Biotech International Ltd.\), or DPIIT \(Department for Promotion of Industry and Internal Trade\) listed startups. Students have the option to extend their internship by a maximum of 2 weeks beyond the winter or summer vacation period, subject to approval from the institution and industry.](#) The training must be continuous and last at least two weeks in an organization to earn one credit. Students who complete a six-week internship in the same organization/industry may earn three credits. Credits will be awarded after the student submits an Internship/Industrial Training report to the Internship Coordinator and appears for an end-semester viva voce. The report will be evaluated by an external examiner nominated by the Controller of Examinations for awarding the grade. Students shall get permission from the Head of the Institution for taking Industrial Training/Internship. [Students who complete an internship of at least 4 weeks will be deemed to have fulfilled the internship requirement as prescribed by the curriculum. However, students who complete an internship exceeding 6 weeks will have the first 4 weeks counted towards the curriculum's internship requirement, and the additional weeks will be duly recognized and listed on the marksheet as supplementary internship experience.](#)

Table 4: Internship Credits

Duration of Industrial Training / Internship	Credits
2 Weeks	1
4 Weeks	2
6 Weeks	3
>8 weeks	3

12.1.1. Assessment for Internship/Industrial Training Courses

The Internship/Industrial Training shall carry 100 marks and shall be evaluated through continuous assessment only as per Table. At the end of the Industrial Training / internship the student shall submit a certificate with required supporting documents from the organization where the student has undergone training and a brief report about the training. [Regular reviews of the internship progress are mandatory, to be conducted every 2 weeks. The institution and industry members must jointly assess the student's performance and progress. The assessment can be conducted in online, physical, or blended mode. However, a minimum of two examiners must be present for each review, providing a comprehensive evaluation and feedback to the student.](#) The evaluation will be made based on this report, presentation and a Viva-Voce Examination conducted internally by a three member Departmental Committee consisting of one co-ordinator and two members constituted by the Head of the Department. Certificates (issued by the Organization) submitted by the student shall be attached to the mark list and sent to the Controller of Examinations by the Head of the Department.

Table 13: Assessment for Internship/Industrial Training

Internship/Industrial Training		
Report	Presentation	Viva Voce
30	40	30

Table 5: Assessment for internship

Week	Number of reviews	Panel Members	Documents
2	1	Internship coordinator and Industry member	Format and Report refer Wiki link

4	2	Internship coordinator and Industry members and Department Nominee	https://wiki.francisxavier.ac.in/index.php/Internship_Policy_and_Formatsk
6	3	Internship coordinator and Industry members and Department Nominee	

13. PROJECT WORK

13.1. The Project Work is carried out in industry/academic/research institutions need not be a continuation of Project Work-I/Mini Project. In such cases, the Project Work shall be jointly supervised by a supervisor of the department and an expert as a joint supervisor from the organization and the student shall be instructed to meet the supervisor periodically and to attend the review committee meetings for evaluating the progress. The review meetings, if necessary, may also be arranged in online mode with prior approval from the Head of the Department and a suitable record of the meetings shall be maintained.

13.2. The Controller of Examination(CoE) shall constitute a review committee for Project Work for each programme. The review committee consists of a 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.

14. STARTUP

A student is allowed to set up his/her start-up from 4th semester onwards either inside or outside of the college. Startups may be interdisciplinary or multidisciplinary. The progress of the start-up shall be evaluated by a panel of members constituted by the Principal through periodic reviews. The head of the department concerned shall assign a faculty member as a mentor for each start-up initiated as a coordinator. Student can avail 40% On Duty through the Entrepreneurship cell and the concern department. However he/she must maintain 60% of attendance in the semester. If the students claims as a student entrepreneur, he must Student Entrepreneur may replace their 8th sem project with their startup initiatives.

15. ASSESSMENT FOR PROJECT WORK/STARTUP

15.1. Assessment for Design Thinking

The Design Thinking shall carry 100 marks and shall be evaluated through continuous assessment only. Every student is expected to present a minimum of 2 presentations / demonstrations per semester before the evaluation committee and for each presentation/demonstration, marks can be equally apportioned. The three member committee consisting of one co-ordinator and two members appointed by the Head of the Department will

evaluate the Design Thinking project at the end of the semester, the marks can be consolidated and taken as the final mark.

Table 6: Assessment for Design Thinking Project

Credit	Internal Assessment (100 Marks)			
	Review I	Review II	Review III	Project Report
1	20	30	30	20

15.2. Assessment for Project work/Startup/Creative and Innovative Projects

- 15.2.1.** 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 a failure in the Project Work and the student shall re-register for the same in the subsequent semester.
- 15.2.2.** The project report shall carry a maximum of 10 marks. The project report shall be submitted as per the approved guidelines as given by CoE of the Institution. Same marks shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 30 marks. Marks are awarded to each student of the project group is based on the individual performance in the viva- voce examination

Table 7: Assessment for Project wok/Startup/Creative and Innovative Project

Project work	Internal (60 Marks)			External (40 Marks)			
	Review I	Review II	Review III	Project Evaluation		Viva - Voce (20 Marks)	
				Guide	External	Internal	External
	10	20	30	10	10	10	10

15.3. INDUSTRY SUPPORTED COURSES (ISC)

Industry Supported Courses (ISC) are offered by experts from industry or research organizations and must be approved by [the Academic Council](#). [Students can opt for these 3-](#)

credit courses, which are offered periodically by the department, starting from the 3rd semester onwards. Department can offset ONE ISC course per semester and it must be get approval from Bos and Listed in the Professional Elective List. However the Industry must exist more than 5 years and maintain an active Memorandum of Understanding (MoU) with the Institution, thereby fostering a collaborative environment that benefits both the students and the industry. At least 50% of the syllabus must be taught by industry professionals. Students are also permitted to register for ISCs offered by other departments, provided they have met the necessary prerequisites and have obtained approval from both Heads of Departments. These courses can be structured as theory, theory-cum-practical, and may be offered as Professional Electives (PE) or Open Electives (OE) worth three credits. In the Continuous Assessment Test, the evaluation is conducted by the respective course coordinators or by experts from the industry. However, the assessment pattern and rubrics must be drafted and approved by the Board of Studies and the Academic Council. An End Semester Exam for these courses will be conducted by the Controller of Examinations, depending on the category of the course.

15.4. OFF CAMPUS COURSES

15.4.1. Online courses(OC)

Students are permitted to enroll and study online courses through SWAYAM / NPTEL platforms and credit transfer is to be done based on the marks and certificate provided by the NPTEL. Courses must be selected from the approved list provided by the department. A Professional Elective / Open Elective of three credits can **be replaced by NPTEL/SWAYAM Courses completed by the student**. The credits earned through online courses, transferred instead of Professional Elective /Open Elective Courses after due approval procedures from the Departmental Consultative Committee. The DCC from the Department of the student 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 shall be chosen from the SWAYAM platform. Student can transfer **the Maximum number of credits from online courses is 12**. Students admitted from the academic year 2024-25 are required to successfully complete at least TWO NPTEL courses before their 8th semester.

- 15.4.1.1. The Credit Equivalent for NPTEL course is listed in Table 8. The number of credits and transfer of credits are based on the procedure explained in Table 10 and the Mapping of the marks with the grades is explained in Table 9. The mapping of marks with grades is applicable, only if the student passes the course as per the guidelines of NPTEL

Table8:Credits equivalent for NPTEL Courses

Weeks	Credits
4 Weeks	1

8 Weeks	2
12 Weeks	3

Table 9: Grading for NPTEL / SWAYAM Online Courses

Score	Grade
90 - 100	O
80 - 89.9	A+
70-79.9	A
60-69.9	B+
50-59.9	B
40-49.9	C

Table 10 : Procedure for Credit Transfer using Online Courses

Weeks	Total No. of Credits Earned	Courses to be printed in the Grade Sheet	No. of Provisional Elective/ open elective can be dropped	No. of credits considered for GPA/ CGPA Calculation
4 Weeks	1	1	NA	NA
8 Weeks	2	1	NA	NA
4 Week +4 Weeks	1	2	NA	NA
12 Weeks	3	1	1	3
4 Week +8 Weeks	3	2	1	3
4 Week +12 Weeks	4	2	1	3
8 Weeks + 8 Weeks	4	2	1	3
8 Weeks + 12 Weeks	5	2	1	3
12 Weeks + 12 Weeks	6	2	2	6

- 15.4.1.2. Upon completing the NPTEL course, if a student is not seeking credit transfer or course exemption, they have the option to utilize the completed course as an additional value-added course, and it will be reflected in the consolidated

marksheet. However, the maximum number of value-added courses, including both skill-based and online courses, is limited to 4 one-credit courses or 2 two-credit courses. The eligible students should submit the necessary documents along with the application form to the Head of the Department (HOD). In such cases, the additional course or value-added course mentioned in the consolidated mark sheet will not be considered for CGPA calculation

15.4.1.3. If a student is unable to successfully complete the NPTEL course, it holds no significance. However, those students wishing to enroll in the next semester can choose to register for either the same course or select an alternative from the list of approved courses.

15.4.2. Students are permitted to optionally enroll and study the courses in physical / hybrid / online modes offered by reputed Central / State funded Universities / Institutions which are in the **top 20 positions in the latest NIRF ranking** and also conduct examinations towards award of marks and grades. (NIRF Ranking of any of **the last three years with respect to the year in which course is to be registered**; NIRF ranking is based on respective streams for professional elective courses and based on any stream for open elective courses). Students are also permitted to enroll and undergo such courses in Online mode at Universities abroad. Students are also permitted to study courses of a particular semester/Month/Week in a University / Institution abroad based on MoU. A learning agreement shall be evolved to map the courses offered in the **programme OE/PE/VAC** and the courses offered in University abroad as per the procedure outlined by the **Office of Academic Courses**. The credits earned by the students in the University abroad shall be transferred as per the learning agreement. In this case, the students can enroll for the courses with the approval of DCC only if the course is offered directly by Institution/University **and not through the edutech platforms**. The marks/credits earned by the student shall be transferred based on the decision of a committee constituted by **CoE and approved by the Academic Council**

16. SKILL BASED VALUE ADDED COURSE

16.1. Students can enroll in ONE or TWO-credit skill-based value-added courses starting from the 2nd semester. These courses, offered by a department, must receive prior approval from the Board of Studies (BOS). Before offering these courses, the department must discuss the syllabus details in the Departmental Course Committee (DCC) and obtain BOS approval. After receiving approval from the Board of Studies, the department should send the details to the Dean of Academics and the Controller of Examinations (CoE). Skill based value added courses will be offered as practical courses. If a student earns more than 3 credits through Skill based Value Added Courses, he/she shall drop one Professional Elective/Open Elective from 5th to 7th semester.

16.2. If the student does not opt for replacement of PE/OE, the completion of Skill based Value Added Course will be added in the Grade Sheet but it will not be considered for CGPA calculation.

Students can take a maximum of 4 one credit courses or 2 two credit courses in the entire programme of study as over and above skill courses ie) not opted for replacement offered by the concerned department or by other departments

16.3. Procedure for Credit Transfer

A student may accumulate up to 6 credits through such courses, and such credits will be considered in lieu of the Professional Elective and/or Open Elective courses. In this regard, a student is permitted to drop either 1 or 2 Professional Elective / Open Elective course(s) as per the procedure given below

Table 9: Procedure to drop Professional Elective / Open Elective course(s)

No. of SBVA Courses	Total No. of Credits Earned	Courses to be printed in the Grade Sheet	No. of Provisional Elective/ open elective can be dropped	No. of credits considered for GPA/ CGPA Calculation
1	2	1	-	-
2	4	2	1	3
3	6	3	2	6

The credits earned by the student of the successfully completed Skill Based Courses shall be recorded in the grade sheet. If a student has not successfully completed the skill based courses during the semesters II, III, IV and V, then the same shall not be recorded in the grade sheet.

If a student earns 2 credits in Semester II and then enrolls for another 2 credits in Semester III, then he / she is permitted to drop one Professional elective/ open elective course in Semester III to VII. Further, if the student earns 4 credits upto Semester III and enrolls for another 2 credits in Semester IV, then he/she is permitted to drop an additional professional elective/open elective course in the Semester IV to VII semester.

16.3.1. Assessment for Skill based Value Added Courses

Table 10: Assessment for Skill Based Value Added Courses

Category : Skill based Value Added Course
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Credits					Internal(100 Marks)	
L	T	P	C	Hours	Daily assessment	Test Project
0	0	4	2	60	60	40
0	0	2	1	30	60	40

17. MINOR/SPECIALIZATION

Students have the option to pursue a B.E./B.Tech. (Hons) specialization within the same discipline. Similarly they may choose to pursue a B.E./B.Tech. Honors or a B.E./B.Tech. minor in another specialization

17.1.1. B.E./B.Tech. Honours (specialization in the same discipline):

- The B.E./B.Tech. Honours program with specialization in the same discipline is provided by the department.
- A student who has 7.5 CGPA and above and no history of arrears can opt for B.E./B.Tech. Honours (specialization in the same discipline).
- To be eligible for a B.E./B.Tech. Honours degree with a specialization in the same discipline, students must earn an extra 18 credits from the specialization courses offered within their respective discipline. These additional credits are in addition to the credit requirements specified by the department for a regular B.E./B.Tech. degree in that discipline..
- From the 4th semester onwards, students have the opportunity to register for a B.E./B.Tech. Honours course with specialization in the same discipline.
- The department to which the student belongs offers this course within their curriculum.
- In order to be eligible for the B.E./B.Tech. Honours course with specialization in the same discipline, it is mandatory for the student to pass all courses offered by the department, along with the specialization courses, in their first attempt.

17.1.2. B.E./B.Tech. (minor in other specialisation)

- A student is also permitted to opt Minor courses offered by other Departments.
- A student who has 7.5 CGPA and above and no history of arrears can opt for **B.E / B.Tech.**(minor in other specialisation).
- To be eligible for the B.E./B.Tech. (minor in other specialisation) Degree, students are required to earn a minimum of 18 credits from a specific minor program, along with fulfilling the credit requirements set by their department for the B.E./B.Tech. Degree
- From the 4th semester onwards, students have the opportunity to register for a B.E./B.Tech. (minor in other specialisation). course.

- In order to be eligible for the B.E./B.Tech. (minor in other specialisation) course, it is mandatory for the student to pass all courses offered by the department, along with the minor courses, in their first attempt.

17.1.3. **B.E / B.Tech. Honours**

- A student is also permitted to opt Minor courses offered by other Departments. A student who has 7.5 CGPA and above and no history of arrears can opt for **B.E / B.Tech. Honours**.
- In order to receive the B.E./B.Tech. Honours Degree, students are required to earn a minimum of 18 additional credits from multiple minor programs, in addition to the credits specified by the department for the B.E./B.Tech. Degree.
- From the 4th semester onwards, students have the opportunity to register for a B.E./B.Tech. Honours course.
- In order to be eligible for the B.E./B.Tech. Honours course, it is mandatory for the student to pass all courses offered by the department, along with the minor courses, in their first attempt.

17.1.4. The courses specified under Minor / Specialization degree may include theory, theory cum practical, practical, and project work under the particular specialization. The registration, assessment & evaluation pattern and classification of grades of these courses shall be the same as that of the courses in the regular curriculum of the programme of the candidate.

17.1.5. If a student chooses **not to pursue the B.E./B.Tech. Honours (specialization in the same discipline)** program **after completing a certain number** of additional courses, those completed additional courses can be used for exemption of Professional Elective and Open elective courses. If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, those courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.

17.1.6. If a student chooses **not to pursue the B.E./B.Tech. Honours/ minor in other specialization** program **after completing** a certain number of additional courses, those completed additional courses can be used for exemption of Professional Elective and Open elective courses. If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, those courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.

17.1.7. Students can earn up to 6 out of 18 credits through online courses on the NPTEL platform, with approval from the Departmental Consultative Committee appointed by the Head of the Department.

17.1.8. The registration, assessment & evaluation pattern and classification of grades of these courses shall be the same as that of the courses in the regular curriculum of the programme of the

candidate. A candidate can earn an Honors degree in only one specialization during the entire duration of the programme.

- 17.1.9. The student should have earned additionally a minimum of 18 credits in any one of the domains of other B.E/B.Tech. programmes or from any one of the following domain

18. DURATION OF THE PROGRAMME

- 18.1. A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (for HSC students) and 06 semesters (for Lateral Entry students) but in any case not more than 14 Semesters for HSC (or equivalent) students and not more than 12 semesters for Lateral Entry students
- 18.2. Each semester shall normally consist of **90 working days (including examination days) with periods of 50 minutes each**. The Dean Academics and the Head of the Department 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.
- 18.3. The Head of the Department may schedule additional classes for improvement, special coaching, for slow learners over and above the specified periods. But for the purpose of calculation of attendance requirement for writing the end semester examinations, the following method shall be used.

$$\frac{\text{Percentage of attendance} = \frac{\text{Number of days present} \times 60}{\text{Total number of days} \times 60} \times 100}{100} \times 100$$

- 18.4. The total duration of the programme from the commencement of the first semester to which the student was admitted, shall not exceed the maximum duration specified irrespective of the period of break of study or prevention in order that the student may be eligible for the award of the degree.

19. COURSE ENROLLMENT AND REGISTRATION

- 19.1. Each student on regular admission shall register for the courses prescribed in the curriculum every Semester as per CBCS.
- 19.2. After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn continuous assessment marks and appear for the end semester examinations.
- 19.3. **Flexibility to Add or Drop courses**

From **fourth semester onwards**, a student has the option of registering for additional courses or dropping existing courses in the Schedule of Courses of the programme. Total number of credits of such courses cannot exceed 6. However, **the maximum number of credits the student can register in a particular semester cannot exceed 36**, excluding the courses for which the student has done **reappearance registration**. The credits for industry supported

courses/Minor/Specialization courses are also included in calculating the number of credits per semester.

19.4. The registration for the courses, from II semester to VIII semester, will commence five days prior to the commencement of the succeeding semester. The students shall register for the courses with the guidance of the student's Faculty Mentor. If the student wishes, the student may drop courses (vide clause 6.3) within five working days after the commencement of the concerned semester and complete the registration process.

19.5. Courses such as professional elective/open elective shall be offered with the guidance of a faculty without any restriction on minimum students opting for a course.

19.6. If a student has any arrears, he/she shall do reappearance registration whenever the course opted next. Students in VIII semester who have any arrear in project work in the eighth semester may appear **for supplementary examination conducted only once**, one month after the declaration of the results of the eighth semester.

19.7. Redoing a Course

Redoing a course means reregistering for a course, attending all classes, fulfilling the attendance requirements as per clause 7, earning fresh Continuous Assessment marks and appearing for End Semester Examinations. A student has to redo a course in the following conditions

19.7.1. If a student fails to secure a pass in any course in the current semester examination, he/she is allowed to write an arrear examination in the next consecutive semester and their internal marks shall be carried over for calculating end semester results.

19.7.2. The student who fails in any Project work (Project 1 / Project 2) in the current semester can write an arrear examination in the next consecutive semester and their internal marks shall be carried over for calculating end semester results.

19.7.3. The student who fails in Seminar / Internship / Mandatory Course / Practical can write as an arrear examination in the next consecutive semester and their internal marks shall be carried over for calculating end semester results.

20. ASSESSMENT PROCEDURES FOR AWARDING MARKS

All B.E./B.Tech. programmes consist of Theory Courses, Theory cum Practical, Practical Courses and Employability Enhancement Courses. Employability Enhancement Courses include Project Work, Seminar, Professional Practices, Case Study and Industrial/Practical Training. Appearance in End Semester Examination is mandatory for all courses including theory, laboratory and project work. Performance in each course of study shall be evaluated based on (i) Continuous Assessments throughout the semester and (ii) End Semester Examination at the end of the semester. The evaluation shall be based on Outcome Based Education (OBE). All course shall be evaluated for a maximum of 100 marks as shown below:

Table 11: Internal external marks split

S.No	Category of Course	Internal Marks (CAM)	End Semester Examination Marks(ESM)
1	Theory Courses	40 Marks	60 Marks
2	Laboratory Courses	60 Marks	40 Marks
3	Theory Cum Practical Courses	50 Marks	50 Marks
4	Project Work	60 Marks	40 Marks
5	All other EEC Courses	100 Marks	Nil
6	Mandatory Courses (Non – Credit)	100 Marks	Nil

20.1.1. Assessment for Theory Courses

The mark distribution is dependent on the credit weightages of various components of the courses. Continuous Assessment comprises two assessments of equal weightage. The total marks obtained in the 2 assessments put together shall be reduced to 40 marks and rounded to the nearest integer. In case a student misses the assessment due to medical reasons (hospitalization / accident / specific illness) or due to participation in the College / University / vState / National / International level Sports events with prior permission from Head of the Institution, only one Reassessment may be given after getting approval from the Head of the Department by the concerned course instructor.

The End Semester Examination (Theory / Theory cum Practical Or Practical) of 3 hours duration shall ordinarily be conducted between November and January during the odd semesters and between April and June during the even semesters.

Table 12: Assessment for Theory Courses

Category : Theory Courses (40:60)									
Credits					Internal Marks				End Semester Exams
L	T	P	C	Hours	CAT 1	CAT 2	Activity based/Formative Assessment		
							DAT	Activity	
3	1	0	4	60	10	10	5	15	60

3	0	0	3	45	10	10	5	15	60
2	0	0	2	30	10	10	5	15	60
1	0	0	1	15	50	50	NA		

20.1.2. Assessment for Theory cum Practical Courses

The maximum marks for Internal Assessment shall be 50 in case of theory courses with Laboratory components. (i.e.) Each course shall be evaluated for a maximum of 100 marks as shown below:

Table 13: Assessment for Theory cum Practical Courses

Category : Theory Cum Practical Courses (50:50)											
Credits					Internal Marks						End Semester Exam Marks
L	T	P	C	Hours	CAT 1	CAT 2	Lab Experiments	Model lab with Project	Activity based/Formative Assessment		
									DAT		
3	0	2	4	75	10	10	10	5	5	10	50
2	0	2	3	60	10	10	10	5	5	10	50

20.1.3. Assessment for Practical 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.

Table 14: Assessment for Practical Courses

Category : Practical Courses (60:40)

Credits					Internal Marks			End Semester Components
L	T	P	C	Hours	Lab Experiments	Model lab with Project	Activity based/Formative Assessment	
0	0	4	2	60	30	20	10	40
0	0	2	1	30	50	40	10	NA

20.1.4. Assessment for Placement Training/Mandatory Courses

The **Placement Training/Mandatory Courses** carry 100 marks and shall be evaluated through continuous assessment only. Assessments shall be conducted during the semester by the Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. The Head of the Department may identify a faculty member as coordinator for the course.

Table 14: Assessment for Mandatory Non CGPA courses

Category : Mandatory Non CGPA courses							
Credits					Internal		End Semester Exam
L	T	P	C	Hours	CAT 1	CAT 2	
2	0	0	0	30	50	50	NA

20.1.5. Assessment for Internship/Industrial Training Courses

The Internship/Industrial Training shall carry 100 marks and shall be evaluated through continuous assessment only as per Table. At the end of the Industrial Training / internship the student shall submit a certificate from the organization where the student has undergone training and a brief report about the training. The evaluation will be made based on this report, presentation and a Viva-Voce Examination conducted internally by a three member Departmental Committee consisting of one co-ordinator and two members constituted by the

Head of the Department. Certificates (issued by the Organization) submitted by the student shall be attached to the mark list and sent to the Controller of Examinations by the Head of the Department.

Table 15: Assessment for Internship/Industrial Training

INTERNSHIP / INDUSTRIAL TRAINING		
Report	Presentation	Viva Voce
30	40	30

21. MALPRACTICE

Students taking exams shall be prohibited from entering into the Examination Halls/Laboratories with any book or portion of book, manuscript, or any unauthorized written/printed/electronic content, communicating with or copying from each other or communicating with anyone outside the Examination Hall/Laboratories. Electronic gadgets, Programmable calculator and mobile phone shall not be permitted inside the Examination hall/Laboratories. However, any required code-books and data sheets/books as specified in the question paper will be supplied inside the Examination hall/laboratories by the office of the Controller of Examinations. The students are warned that any form of malpractice will be dealt with severely. The punishment may include debarring/canceling the particular examinations registered by the student in that semester.

No.	Nature of Malpractice	Punishment
1	The candidate possessing any incriminating material (whether used or not). For example:-Written or printed materials, bits of papers containing written information, writings on scale, calculator, handkerchief, dress, part of the body, hall ticket, etc.	Invalidating the examinations of all the theory and practical subjects of the current semester registered by the candidate.
2	The candidate possessing cell phones(s)/ programmable calculator(s)/ Smart Watch/ any other electronic storage devices(s) gadgets and containing incriminating materials(whether used or not)	

22. PASSING REQUIREMENTS

22.1.1. A student who secures not less than 50% of total marks prescribed for the course [Continuous Assessment + End semester Examinations] with a minimum of 45% of the marks prescribed for the end-semester Examination, shall be declared to have passed the

course and acquired the relevant number of credits. This is applicable for both theory ,theory cum practical,and laboratory courses (including project work).

- 22.1.2.** If a student fails to secure a pass in a theory,theory cum practical course / laboratory course(Except Elective) ,the student shall register and appear only for the end semester examination in the subsequent semester. In such cases, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass.
- 22.1.3.** If the course, in which the student has failed, is a Professional Elective or an Open Elective course, the student may be permitted to complete the same course. In such cases, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secures a pass.
- 22.1.4.** If a student is absent during the viva - voce examination, it would be considered a fail. If a student fails to secure a pass in Project Work, the student shall register for the course again in the subsequent semester and can do Project Work-I and II together
- 22.1.5.** The passing requirement for the courses which are assessed only through purely internal assessments (EEC courses except Project Work and laboratory), is 50% of the internal assessment (continuous assessment) marks only.
- 22.1.6.** A student can apply for revaluation of the student's semester examination answer paper in a theory course, as per the guidelines of the COE on payment of a prescribed fee along with prescribed application to the COE .The COE will arrange for the revaluation and the results will be intimated to the students. Revaluation is not permitted for laboratory course and EEC courses

23. ATTENDANCE REQUIREMENTS FOR COMPLETION OF THE SEMESTER

- 23.1.** Ideally every student is expected to attend all periods and earn **100% attendance**. However, the student must secure more than **75% attendance put together** in all courses in a semester prescribed in the curriculum.
- 23.2.** If a student secures attendance between **65% and less than 75%** in any course in the current semester, due to medical reasons (hospitalization/accident/specific illness) or due to participation in the College/University/State/National/International level Sports events/Competition, with prior permission from the Head of the Institution and Head of the Department concerned, the student shall be given exemption from the prescribed attendance requirement and the student shall be permitted to appear for the end semester examination of that course. In all such cases, the students should submit the required documents on joining after the absence to the Head of the Department through the faculty Mentor.
- 23.3.** A student shall normally be permitted to appear for the end semester examination of the course if the student has satisfied the attendance requirements (vide Clause 23.1 – 23.2) and has registered for the examination in those courses of that semester by paying the prescribed fee.
- 23.4. Attendance Lacking**

- 23.4.1.** If a student has shortage of attendance (clause 23.1-23.2) in all the registered courses, he/she would not be permitted to move to the higher semester and has to repeat the current semester in the subsequent year
- 23.4.2.** In the case of reappearance (Arrear) registration for a course, the attendance requirement as mentioned in Clauses 23.1 - 23.3 is not applicable. However, the student has to register for the examination in that course by paying the prescribed registration fee.
- 23.4.3.** A student who has already appeared for a course in a semester and passed the examination is not entitled to re-appear the same course for improvement of Grade / Marks.

24. RELATIVE GRADING POLICY

Relative grading is a method of evaluation that compares a student's performance to that of their peers in the same class or group. This method assigns grades based on the distribution of scores, with some students receiving high grades, some receiving low grades, and most receiving grades somewhere in between. The relative grading system is based on the assumption that the distribution of grades should follow a normal curve, with a few high achievers at the top, a few low achievers at the bottom, and the majority of students in the middle. The grades are then assigned based on the position of each student in this distribution.

25. AWARD OF LETTER GRADES

- 25.1.** The award of letter grades will be decided using relative grading principle.

The performance of a student will be reported using letter grades, each carrying certain points as detailed below: 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". 'RA' indicates that Reappearance is mandatory for that course concerned. 'SA' denotes shortage of attendance and hence prevents students from writing the End Semester Examination. P and F are grades for mandatory, but non-credit courses. 'SA' will appear only in the result sheet.

Letter Grade and its range

Letter Grade	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
WD (Withdrawal)	0

25.2. The grades O, A+, A, B+, B, C obtained for the one/two credit course (not the part of curriculum) shall figure in the Grade Sheet under the title 'Value Added Courses/Internship/Industrial training'. The courses for which the grades obtained are RA, SA will not figure in the Grade Sheet

26. GRADE SHEET

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

- The College Name and Affiliating University.
- The list of courses registered during the semester and the grades scored.
- The Semester Grade Point Average (SGPA) for the semester.
- The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

GPA for a semester is the ratio of the sum of the products of the number of credits acquired for courses and the corresponding points to the sum of the number of credits acquired for the courses in the semester. CGPA will be calculated in a similar manner, considering all the courses registered from the first semester. RA grades will be excluded for calculating GPA and CGPA. The overall performance of a student at any stage of the Degree programme is evaluated by the Cumulative Grade Point Average (CGPA) up to that point of time

$$\text{GPA/CGPA} = \frac{\sum_{i=1}^n C_i \cdot P_i}{\sum_{i=1}^n C_i}$$

Where C_i is the number of Credits assigned to the course

P_i is the point corresponding to the grade obtained for each course

n is number of all courses successfully cleared during the particular semester in the case of

GPA and during all the semesters in the case of CGPA.

In the consolidated grade sheet the CGPA earned shall be converted into percentage of marks as follows: Percentage of Marks = CGPA × 10.

27. 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 the student has

- Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.
- Successfully completed the course requirements and has passed all the prescribed examinations in all the eight semesters (six semesters for lateral- entry) within a maximum period of 7 years (6 years for lateral-entry) from the commencement of the first semester to which the candidate was admitted.
- Successfully passed any additional courses prescribed by the Department concerned whenever readmitted under regulations 2024.
- No disciplinary action pending against him/her.

28. CLASSIFICATION OF THE DEGREE AWARDED

28.1. First class with distinction(FWD)

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 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 the end semester examination due to lack of attendance in any semester.

28.2. First class (FC)

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.

28.3. Second Class (SC)

All other students (not covered in clauses 18.2.1 and 18.2.2) who qualify for the award of the degree (vide Clause 18.1) shall be declared to have passed the examination in Second Class.

28.4. A student who is absent in the end semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification. (subject to clause 20).

28.5. Classification of B.E./B.Tech. (Honors) and B.E./B.Tech. (Minor)

Eligibility for B.E./B.Tech. (Honors):

A student is eligible for the B.E./B.Tech. (Honors) degree if the following conditions are satisfied:

- The student has completed additional courses from a specified group of professional electives (vertical) or from any vertical within the same programme, and earned a minimum of 18 credits.
- The student has passed all the courses prescribed in the curriculum as well as the additional courses in the first attempt.
- The student has secured a minimum Cumulative Grade Point Average (CGPA) of 7.50, calculated based on all courses including the additional courses.

Classification of B.E./B.Tech. (Honors):

- A student who has passed all the prescribed and additional courses in the first attempt and has secured a CGPA of 8.50 or above is eligible for the award of B.E./B.Tech. (Honors) Degree with First Class with Distinction.
- However, there may be students who have passed all the courses, including the additional ones, in the first attempt but have not obtained a CGPA of 8.50. Some such students might have attained a CGPA of 8.50 when considering only the regular curriculum, benefiting from the grades obtained in the additional courses.

In such cases, the student may opt for one of the following classifications:

- Award of B.E./B.Tech. (Honors) Degree with First Class (CGPA less than 8.50 including additional courses): Yes / No
- Award of B.E./B.Tech. (Regular) Degree with First Class with Distinction, considering the improved CGPA due to good grades earned in the additional courses: Yes / No

Eligibility for B.E./B.Tech. (Minor):

- A student is eligible for the B.E./B.Tech. (Minor) degree if the following condition is satisfied:
- The student has earned an additional minimum of 18 credits from a single vertical offered in any one of the following domains: Engineering, Science and Humanities,

or Management.

Classification of B.E./B.Tech. (Minor):

- A student who has passed all the prescribed and additional courses in the first attempt and has secured a CGPA of 8.50 or above is eligible for the award of B.E./B.Tech. (Minor) Degree with First Class with Distinction.
- As in the case of the Honors classification, students who have passed all courses including the additional ones in the first attempt but have a CGPA less than 8.50 may still have attained a CGPA of 8.50 in the Regular programme due to strong performance in the additional courses.

In such instances, the student may opt for one of the following classifications:

- Award of B.E./B.Tech. (Minor) Degree with First Class (CGPA less than 8.50 including additional courses): Yes / No
- Award of B.E./B.Tech. (Regular) Degree with First Class with Distinction, considering the enhanced CGPA due to the grades in the additional courses: Yes / No

29. PHOTOCOPY / REVALUATION

A student can apply for revaluation of the student's semester examination answer paper in a theory course, theory cum practical course, within 2 weeks from the declaration of results, on payment of a prescribed fee along with prescribed application to the COE through the Head of the Institution. 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 laboratory course and project work. A candidate can apply for revaluation of answer scripts for not exceeding 5 subjects at a time

The procedure for revaluation:

- Phase I: Wrapping of evaluated answer scripts by the students.
- Phase II: Applying for photocopy of the answer script - The answer script is to be valued and justified by a faculty member, who handles the subject and recommends revaluation with breakup of marks for each question.
- Phase III: Applying for revaluation – Based on the recommendation, the candidate can register for the revaluation through proper application to the Controller of Examinations.

The Controller of Examinations will arrange for the revaluation and the results will be intimated to the candidate concerned through the Head of the Institutions.

30. AWARD OF DEGREE

The Academic Council of the institution will approve the award of Degree to all eligible students. The degree will be issued by Anna University, Chennai and the consolidated Grade Sheet will be issued by the institution. The consolidated grade sheet will specify any specializations and distinctions that the student has earned during the course of the study.

31. RANK OF A STUDENT

The ranking is primarily based on the Cumulative Grade Point Average (CGPA) earned by undergraduate students from the 1st to the 8th semesters (or 3rd to 8th semesters for lateral entry students). Students must pass all subjects, including mandatory courses, of that program in all semesters on the first attempt, achieving First Class or First Class with Distinction within the minimum period of the program (4 years for UG and 3 years for lateral entry). Ranks are assigned based on the CGPA, with the number of candidates registered for the last semester examination of each program in the ratio of 1:25. For every 25 candidates, one rank will be awarded, subject to a **maximum of 3 ranks per programme**. If more than one student achieves the same CGPA, the tie is resolved by awarding the same rank to the students. Students who have availed themselves of the provision of a Break of Study are not eligible for rank. Students transferred from other institutions are not eligible for rank. Rank certificates shall be awarded only to the eligible students in a branch.

For example, if 18 students are registered, one rank can be awarded; if 50 students are registered, two ranks can be awarded; if 60, 90, or 120 students are registered, three ranks can be awarded.

32. PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION

person representing Tamil Nadu / India with prior permission for participation from Principal / CoE / Dean Academics), be granted permission to withdraw (after registering for the examinations) from appearing for any course or courses in the End Semester Examination of a particular semester. The student may withdraw by following the due process of the COE's office before the commencement of examination. This facility can be availed only once during the entire duration of the degree programme .In this case, the student shall use the continuous assessment test marks earned during the course of study.

33. PROVISION FOR AUTHORIZED BREAK OF STUDY

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

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 situations the candidate may apply for additional break of study not exceeding another year by paying a prescribed fee for break of study. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he/she applies through Dean Academics in advance, but not later than the last date for registering for the end semester examination of the semester in question, to the Head of the Institution stating the reasons therefore and the probable date of rejoining the programme.

33.2. The candidates permitted to rejoin the programme after break of study/prevention due to lack of attendance, shall be governed by the Curriculum and regulations in force at the time of rejoining. The students rejoining in new regulations shall apply through Dean Academics in the

prescribed format to the Head of the Institution at the beginning of the readmitted semester itself for prescribing additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.

- 33.3.** The authorized break of study would not be counted towards the duration specified for passing all the courses for the purpose of classification.
- 33.4.** The total period for completion of the Programme reckoned from, the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.
- 33.5.** If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study'.
- 33.6.** The duly filled application should be submitted to "The Controller of Examinations, Francis Xavier Engineering College, Tirunelveli – 627003" not later than the last date of registration for the End Semester Examination.

34. STUDENT SUPPORT SYSTEM

34.1. FACULTY MENTOR

To help the students in planning their courses of study and for general advice on the academic programme, a certain number of students will attach to a teacher of the Department, who shall function as Faculty Mentor for those students throughout their period of study. The Faculty Mentor shall advise the students in registering and reappearing (Arrear) registering of courses, authorize the process, monitor their attendance and progress and counsel them periodically. If necessary, the Faculty Mentor may also discuss with or inform the parents about the progress / performance of the students concerned.

The responsibilities of the faculty advisor shall be:

- To inform the students about the various facilities and activities available to enhance the student's curricular and co-curricular activities.
- To guide student enrollment and registration of the courses.
- To authorize the final registration of the courses at the beginning of each semester. To monitor the academic and general performance of the students including attendance and to counsel them accordingly.
- To collect and maintain the academic and co-curricular records of the students.

34.2. COURSE INSTRUCTOR

The faculty handling the course is called the Course Instructor. He/She is responsible for planning the modalities associated with the conduct of the course. The number and types of other assessments to be carried out to evaluate the continuous assessment marks need to be decided by all the course instructors handling the course along with the course coordinator. In the case of a single teacher handling the course, he/she is the course coordinator.

34.3. CLASS COMMITTEE

Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson, who is not teaching the class. The goal of the Class Committee is improving the teaching-learning process. The functions of the class committee include:

- Solving problems experienced by students in the classroom and in the laboratories.
- Clarifying the regulations of the degree programme and the details of rules there in the regulation.
- Informing the student representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
- Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing /project work / seminar etc.) the breakup of marks for each experiment / exercise /module of work, should be clearly discussed in the class committee meeting and informed to the students.
- Identifying the slow-learners, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such students

34.4. COURSE COMMITTEE

34.4.1. A theory course handled by more than one teacher shall have a “Common Course Committee” composed of all Course Instructors teaching that course. One of the Course Instructors shall be nominated as the Course Coordinator by the Chairman of the concerned Faculty, duly approved by the Dean, Academics.

34.4.2. The first meeting of the Common Course Committee shall be held at least 10 days before the commencement of the semester. The entire week by week course plan is to be charted out by the common course committee and submitted to the monitoring committee before the commencement of classes. The nature and weightage of the continuous assessments and a common scheme of evaluation for the assessments shall be decided within the framework of the Regulations. All the instructors handling the course need to interact at least once in two weeks, at designated times as indicated in the time table and decide on the action plan for the next two weeks. Wherever feasible, the common course committee shall prepare a common question paper for the continuous assessment tests also.

34.5. DEPARTMENT CONSULTATIVE COMMITTEE (DCC)

In addition, there shall be a Department Consultative committee for each programme, which comprises (i) the Head of the Department (convener), (ii) the two or three senior faculty members of the programme. Department Consultative Committee plays a crucial role in several areas, including:

Program Development: The committee may provide input on the design, development, and modification of academic programs and courses within the department. They may offer suggestions regarding curriculum content, learning outcomes, and program objectives.

Departmental Policies: The committee may discuss and provide recommendations on departmental policies, regulations, and procedures.

Approval Process:This committee shall meet periodically to discuss academic related matters, approval process of Internship,Online Courses,Credit Transfer, progress and status of the students of the semester concerned

35. DISCIPLINE

Every student is required to maintain discipline and decorum both inside and outside the institution campus. They shall follow all the rules and regulations and should not indulge in any activity which can tarnish the reputation of the University or Institution. The Principal shall refer any act of indiscipline by students to the Discipline and Welfare Committee and other appropriate committees for action.

36. REVISION OF REGULATIONS AND CURRICULUM

The Institution may from time to time revise, amend or change the Regulations, scheme of Examinations and syllabi, if found necessary. The Academic Council assisted by the Board of Studies and the Standing Committee will make such revisions /changes.