



**SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution)**



**COIMBATORE – 641 062**

**REGULATIONS 2021**

**CHOICE BASED CREDIT SYSTEM**

**Common to all Post Graduate Full-Time Programmes**

**DEGREE OF MASTER OF ENGINEERING / MASTER OF TECHNOLOGY**

This “Regulations 2021” is applicable to the students admitted to M.E./M.Tech. Programmes from the academic year 2021-2022 onwards.

**1. DEFINITIONS AND NOMENCLATURE**

In these Regulations, unless the context otherwise requires:

- i. **“Programme”** means Degree Programme that is M.E./ M. Tech. Degree Programme.
- ii. **“Discipline”** means specialization or branch of M.E./ M.Tech. Degree Programme, like Computer Science Engineering, Mechanical Engineering, etc.
- iii. **“Course”** means a theory or practical or employability enhancement subjects that is normally studied in a semester, like Mathematics, Machine Design, etc.
- iv. **“Head of the Department”** means Head of the Department of the concerned Discipline.
- v. **“Head of the Institution”** means the Principal of the College.
- vi. **“Institute”** means Sri Shakthi Institute of Engineering and Technology, Coimbatore.
- vii. **“Controller of Examinations”** means the authority of the Institute who is responsible for all activities of the Examinations.
- viii. **“Board of Studies”** means Board of the studies of the concerned discipline.
- ix. **“Academic Council”** means Academic Council of the Institute.
- x. **“University”** means ANNA UNIVERSITY, CHENNAI.

## 2. ADMISSION

Students for admission to the M.E./ M.Tech. degree programme will be required to satisfy the conditions of admission there to prescribed by the University and Government of Tamil Nadu.

- Candidates for admission to the first semester of the Post-Graduate Degree Programme shall be required to have passed an appropriate Under-Graduate Degree Examination of Anna University / other universities or equivalent as specified under qualification for admission as per the Tamil Nadu Common Admission (TANCA) criteria.
- Note: TANCA releases the updated criteria during the admissions every academic year. Admission shall be offered only to the candidates who possess the qualification prescribed against each programme.
- Any other relevant qualification which is not prescribed against each programme shall be considered for equivalence by the committee constituted for the purpose. Admission to such degrees shall be offered only after obtaining equivalence to such degrees.
- However, the Syndicate of the University may decide to restrict admission in any particular year to candidates having a subset of qualifications prescribed at the time of admission.
- Notwithstanding the qualifying examination the candidate might have passed, he/she shall have a minimum level of proficiency in the appropriate programme / courses as prescribed by the Syndicate of the University from time to time.
- Eligibility conditions for admission such as the class obtained, the number of attempts in qualifying examination and physical fitness will be as prescribed by the Syndicate of the University from time to time.
- All Part-Time candidates should satisfy other conditions regarding Experience, Sponsorship etc. that may be prescribed by the Syndicate from time to time.

### 2.1 **P.G. PROGRAMMES OFFERED:**

**Full time/Part time courses: M.E. / M. Tech.**

M.E. - CAD/CAM

M.E. - Computer Science and Engineering

M.E. - Embedded System Technologies

M.E. - Structural Engineering

M.E. – VLSI Design

### 3. DURATION OF THE M. E / M. Tech DEGREE PROGRAMMES

3.1 The minimum and maximum period for completion of the P.G. Programmes are given below:

Programme	Min. Number of Semesters	Max. Number of Semesters
M.E. / M.Tech. (Full-Time)	4	8

3.2 The Curriculum and Syllabi of all the P.G. Programmes shall be approved by the Autonomous concerned Board of Studies and Academic Council of the Institute. The number of Credits to be earned for the successful completion of the Programme shall be as specified in the Curriculum of the respective specialization of the P.G. Programme.

3.3 Each semester shall normally consist of 90 working days or 600 periods of each 45 minutes duration, for full-time mode of study. The Head of the Institution shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.

4. **Medium of Instruction:** The medium of instruction is English for all courses, examinations, seminar presentations and project/thesis/dissertation reports.

### 5. STRUCTURE OF PROGRAMMES

- 5.1 The programme of instruction for each stream of specialization will consist of
- Core courses to be compulsorily taken by all the students of the programme.
  - Elective courses including domain specialization courses offered.
  - Laboratory courses
  - Project work

The student may be required to give one or more seminars during the programme.

Courses Distribution	Credits
No. of credits for Core Courses	: 30 - 36
No. of credits for Elective Courses	: 15-18
Technical Seminar	: 1-2
Design Project (optional)	: 3
Project Work : I & II(6+12)	: 18
<b>Total Credits</b>	<b>: 70 – 75</b>

**5.2. Semester Pattern:** M.E/M.Tech Programme will be structured on Choice-Based Credit System and continuous evaluation, following the semester pattern.

**5.3. Curriculum:** Every Discipline of M.E. / M. Tech. programme will have a curriculum and syllabi for the courses, which will be updated according to the requirements of the Discipline and approved by the BOS and Academic Council.

The curriculum of M.E. / M.Tech. programme will have a minimum number of credits, as defined for each Discipline of study, apportioned among knowledge segments, with minimum credits as per section 5.4. For individual programme, refer to the curriculum / syllabi hand book of the concerned Discipline.

**5.4 Minimum Credits:** The minimum number of credits to be earned through successful completion of the courses of study in the respective Discipline by a student to qualify for the award of degree is provided below.

Discipline	For Full time Programme
M.E - CAD/CAM	70 – 75
M.E - Computer Science and Engineering	70 – 75
M.E - Embedded System Technologies	70 – 75
M.E - Structural Engineering	70 – 75
M.E – VLSI Design	70 – 75

**5.5. Number of Courses per Semester:** Each semester curriculum shall normally have a blend of Lecture courses including Tutorial not exceeding 7 and Laboratory and Employability Enhancement Courses not exceeding 6. However, the total number of courses per semester shall not exceed 13.

**5.6. Credit Assignment:** In general, credits are assigned to the courses based on the following pattern with possible modifications wherever necessary:

- One credit for each lecture hour per week,
- One credit for each tutorial hour per week,
- One credit for each laboratory course/practical of two hours per week & Two credits for each laboratory course/practical of three hours per week
- 6 credits for Project work phase I and 12 credits for Project work phase II.

**5.7. Core and Electives:** Certain courses are identified as Core courses and a few others as Electives. It is mandatory to register and credits to be earned for core and elective courses.

**Electives:** Every student shall opt electives from the list of electives relating to his/her degree programme as given in the curriculum / syllabi hand book in consultation with the Class Advisor and the Head of the Department. Minimum number of credits to be earned for courses under the category of Electives is 15.

**5.8. Project Work Phase I and Phase II:** A student shall register for the Project Work I and Project Work II respectively in 3<sup>rd</sup> (6 credits) and 4<sup>th</sup> (12 credits) for full time programme.

### **5.9. Industrial / Institute Internship**

Students may also do internship(s) at reputed Industry or reputed academic/research institutions in India or abroad, with the goal integrating the theoretical knowledge learned in the class rooms and laboratories with real world experiences, and exposure to various cultures. The work done during the internship must be evaluated and may be considered equivalent to Phase I and/or Phase II projects.

#### **5.9.1 Eligibility and Process:**

- Students are required to submit weekly progress reports during their Internship period.
- After finishing the internship period, they are required to submit a final report and give a presentation about their work experience and knowledge gained during their work.
- Evaluation is based on the Progress reports, Final report, Viva-voce by Evaluation committee, Feedback by Industry/external Research Supervisor.
- Normally, the internship/training should be undergone continuously (unbroken period) in one organization, and no extension of time period is allowed. However, Department Consultative Committee (DCC) may consider exception on a case to case basis.

#### **5.9.2 Role of Host industry/Institution:**

The Host industry/institution has the major role in promoting the success of the training program. To achieve this goal, they are requested to provide the following:

- Provide the intern student with a training plan reflecting his training assignment during the period of his/her internship. It needs to be related to the student's academic field of study (unless prior authorization given by DCC on a case-to-case basis). An agreement has to be arrived at, involving the student, industry supervisor and faculty mentor.

The internship program of the student must be approved by the DCC via the Mentor of the student at SIET.

- Student should be assigned to a professional in his field of study (field mentor/guide), who will be responsible for making the student's training program meaningful and effective.
- The student should be treated like any other employee in the organization. If he does not show up to work either on time or at all, the Industry/institution should inform the mentor, so that corrective action can be taken. Absence should be reflected in the evaluation reports.
- If the student does not perform well or his performance does not meet the Industry's standard then the employer should inform the mentor of the student, so that corrective action is taken.
- Students should be encouraged and allowed to prepare technical reports and conduct oral presentations during the training period.
- The Industry/Institution should allow and encourage visits by the mentor/guide of the student at SIET
- By the end of the internship period the Industry mentor has to fill out the Evaluation Form and mail/fax it to the mentor of the student.

#### **5.10 Audit Courses**

These courses are non-credit based courses. The students have to complete minimum of two audit courses listed below during first and second semester of their study to fulfil the degree requirements. These courses will not be taken in to consideration for the calculation of SGPA / CGPA.

- English for Research Paper Writing
- Disaster Management
- Value Education
- Constitution of India
- Pedagogy Studies
- Stress Management by Yoga
- Personality Development through Life Enlightenment Skills.

**5.11.Self-Study:** A student can opt for Self-Study of one elective course during 3<sup>rd</sup> semester which may be either an Elective or a Special Elective on specific approval of the Head of the Institute provided the student should have more than 7.5 CGPA. The students shall study on their own under the guidance of a faculty member approved by the Head of the Department who will be

responsible for the periodic monitoring and evaluation of the course. No formal lectures would be delivered. The self-study course can be considered as equivalent to studying one elective course / special elective course during that semester.

**5.12. Research methodology:** A student shall register for research methodology course during first / second semester of his / her programme.

**5.13. Student Exchange Programme:** A student can opt for the student exchange programme during 3<sup>rd</sup> or 4<sup>th</sup> semester of his / her programme of study with the Foreign University which entered MoU with the Institute. The credits earned under this programme will be equated with the corresponding semester credits as per the terms and conditions of the MoU and approved by the Academic Council.

## **6. CLASS ADVISOR AND CLASS COMMITTEE:**

Class Advisor: In order to (i) guide the students in planning their courses of study,(ii)advise them on academic programmes and (iii) monitor their progress, Head of the Department will assign a batch (class) of certain number of students to a faculty member, who will be designated as their Class Advisor The Class Advisor is the ex-officio member and the Convener of the Class Committee.

### **6.1. The responsibilities for the Class Advisor shall be:**

- To act as the channel of communication between the Head of the Department and the students of the respective class.
- To collect and maintain various statistical details and History of academic records of the students.
- To help the Chairperson of the Class Committee in planning and conduct of the Class Committee meetings.
- To monitor the academic performance of the students including attendance and to inform their parents and to counsel them.

### **6.2. Class Committee:**

**6.2.1** The Class Committee for a class under a particular branch is normally constituted by the Head of the Department. Every class shall have a Class Committee consisting of teachers of the class concerned, student representatives and a chairperson who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching learning process. The functions of the class committee include:

- Solving problems experienced by students in the class room and in the laboratories.

- Clarifying the regulations of the degree programme and the details of rules therein.
  - 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 foreachassessment.Inthecaseofpracticalcourses(Laboratory/Drawing/ Project Work / Seminar / Online / Summer / Self Study Courses) the breakup of marks for each experiment/exercise /module of work, should be clearly discussed in the class committee meeting and informed to the students.
  - Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
  - Identifying the weak students, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students.
- 6.2.2** The Class Committee for a class under a particular discipline is normally constituted by the Head of the Department.The Class Committee shall be constituted within the first week of each semester.
- 6.2.3** Atleast 2 student representatives shall be included in the Class Committee. The Chairperson of the Class Committee may invite the Class Adviser(s) and the Head of the Department to the Class Committee meeting.
- 6.2.4** The Chairperson is required to prepare the minutes of every meeting, submit the same to Head of the Institution with in two days of the meeting and arrange to circulate it among The students and teachers concerned. If there are some points in the minutes requiring action by the Management, the same shall be brought to the notice of the Management by the Head of the Institution.
- 6.2.5** The first meeting of the Class Committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.



## 7. REGISTRATION

- 7.1 Registration of Courses:** Every eligible student shall register for the courses of the next semester including the chosen electives. Except for the first semester, registration for a semester will be done during a specified week before the end-semester examinations of the previous semester. The consent of the Class Advisor is mandatory before registering for every course.
- 7.2. Eligibility for Registration:** A student will be eligible to register the courses, only if he / she has cleared all the dues to the Institution, Hostel, Library and any other, as specified from time to time, at the time of enrolment of the semester and if he / she is not debarred from enrolment, as part of any disciplinary action of the Institution.
- 7.3 Late registration:** Late registration of courses will be permitted on payment of a prescribed late-fee, up to a specified date, to be notified well in advance.
- 7.4. Pre-requisites:** A student is not permitted to enroll for a course unless he/she has already attended the pre-requisite course, wherever specified.
- 7.5. Dropping / Substituting Courses:**
- 7.5.1.** Each student has to register for all courses to be undergone in the curriculum of a particular semester (with the facility to drop courses to a maximum of 6 credits). The student can also register for courses for which the student has failed in the earlier semesters.
- 7.5.2.** In such cases the student shall do **reappearance registration** for those courses for which the attendance requirement is not compulsory.
- 7.5.3.** A student can substitute an elective course registered earlier, with another elective for valid reasons, within **first seven working days** of the commencement of the semester, with the consent of the Class Advisor and Head of the Department.
- 7.6.** The courses that a student register in a particular semester may include:
- Courses of the current semester.
  - The core courses that the student has not cleared in the previous semesters.
  - Elective courses which the student failed.
- 7.7 Course Numbering:**  
Seven-digit code to be allotted for each course.

1	2	3	4	5	6	7
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<b>Digit</b>	<b>Details</b>
1 <sup>st</sup> and 2 <sup>nd</sup> digit	Indicate the last 2 digits of the Regulation year example: “21” for 2021 regulation
3 <sup>rd</sup> and 4 <sup>th</sup> digit	Indicate the discipline (as per clause 2)
5 <sup>th</sup> digit	indicate the semester number
6 <sup>th</sup> digit	Indicate the theory or other courses Example: “0” for theory and “1” for other courses
7 <sup>th</sup> digit	Indicate the course number (numbered continuously for each course type in a particular programme/ semester)

\*Regarding Elective, the last two digits are serial no.

<b>Sl. No.</b>	<b>Department Name</b>	<b>Department Code</b>
<b>Master of Engineering</b>		
1	M.E - CAD/CAM	CC
2	M.E - Computer Science and Engineering	CP
3	M.E - Embedded System Technologies	ET
4	M.E - Structural Engineering	SE
5	M.E – VLSI Design	VD

### **Categorization of Courses:**

#### **Category 1: Humanities and Social Sciences (HS)**

<b>Humanities and Social Sciences (HS) courses include Technical English and Optional Language Courses, Engineering Ethics and Human Values, Communication Skills, Environmental Science and Engineering and Management Skills.</b>			
<b>Sl. No.</b>	<b>Course Details</b>	<b>Category</b>	<b>Course Code Formation</b>
1	English	HS	HS
2	Environmental Science and Engineering.	HS	GE
3	Professional of Ethics	HS	GE
4	Principles of Management	HS	MG
5	Total Quality Management	HS	MG
6	Audit Course	HS	AC

**Category 2: Basic Sciences (BS)**

<b>Basic Sciences (BS)</b> courses include Mathematics, Physics, Chemistry, Biology, etc.			
Sl. No.	Course Details	Category	Course Code Formation
1	Mathematics	BS	MS

**Category 3: Engineering Sciences (ES)**

<b>Engineering Sciences (ES)</b> courses include Engineering Practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Instrumentation etc.			
Sl. No.	Course Details	Category	Course Code Formation
1	Common to all departments	ES	GE
2	Another department course given to the one particular department (ex: ME CSE course for ME VLSI dept.)	ES	Code belongs to the particular department (VD)
3	Another department course given to the one or more departments (ex: ME CSE course for ME VLSI, ME EST dept.)	ES	Code belongs to the department of the course (CP)

**Category 4: Professional Core (PC)**

<b>Professional Core (PC)</b> courses include the Core courses relevant to the chosen Specialization / Discipline.			
Sl. No.	Course Details	Category	Course Code Formation
1	Department course	PC	Respective department Code

**Category 5: Professional Elective (PE)**

<b>Professional Elective (PE)</b> courses include the Elective courses relevant to the chosen Specialization/ Discipline.			
Sl. No.	Course Details	Category	Course Code Formation
1	Common to all departments	PE	PGE
2	Another department course given to the one particular department (ex: ME CSE course for ME VLSI dept.)	PE	Code belongs to the particular department (PVD)
3	Another department course given to the one or more departments (ex: ME CSE course for ME VLSI, ME EST dept.)	PE	Code belongs to the department of the course (PCP)

### Category 6: Open Elective (OE)

<b>Open Elective (OE)</b> courses include the Courses from the same and other Disciplines which a student can choose from the list specified in the curriculum of the students B.E. / B. Tech. Programmes.			
Sl. No.	Course Details	Category	Course Code Formation
1	Common to all departments	OE	OGE
2	Another department course given to the one particular department (ex: ME CSE course for ME VLSI dept.)	OE	Code belongs to the particular department (OVD)
3	Another department course given to the one or more departments (ex: ME CSE course for ME VLSI, ME EST dept.)	OE	Code belongs to the department of the course (OCP)

### Category 7: Employability Enhancement Courses (EEC)

<b>Employability Enhancement Courses (EEC)</b> include Project Work, Design / Mini Project, Case Study, Industrial / Practical Training, Internship, Seminar, and Career Development Courses			
Sl. No.	Course Details	Category	Course Code Formation
1	Department course	EEC	Respective department Code

### Category 8: On line / Certificate Courses (OC)

<b>On line / Certificate Courses (OC)</b>			
Sl. No.	Course Details	Category	Course Code Formation
1	Department course	OC	Respective department Code

## 8. ATTENDANCE REQUIREMENTS

8.1 Every teacher is required to maintain an '**Attendance and Assessment Record**' which consists of attendance marked in each lecture or practical or project work or EEC classes, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the department periodically (atleast three times in a semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the department will put his signature and date after due verification. At the end of the semester, the record should be verified by the Head of the Institution and the Head of the Department will keep this document in safe custody (for five years). The Institute or any inspection team appointed by the Institute may verify the records of attendance and assessment of both current and previous semesters.

8.2 Finalization of attendance for every course shall be done three working days before the last

instruction day of the semester. Every student is expected to attend all classes of all the courses and secure 100% attendance. Any student failing to secure a minimum of 75% attendance in a course, will not be eligible to appear for the end-semester examination in that course.

- 8.3 However ,a student who secures attendance between 65%and74% in a course/ courses\_in the current semester due to medical reasons (prolonged hospitalization/accident/specific illness) / may be permitted to appear for the current semester examinations subject to the condition that the candidate shall submit the medical certificate attested by the Head of the Department and approved by the Head of the Institution.
- 8.4 Students going on official duty, such as representing the Institute / University for sports and cultural activities, or presenting papers in seminars, conferences and participating in co-curricular activities will be eligible for ‘duty leave’ on the recommendation of the Class AdvisorandHeadoftheDepartmentandapprovedbytheHeadoftheInstitution.Students should get this leave sanctioned before proceeding on 'duty leave'. The duty leave sanctioned as above to a maximum of 10 working days will be counted for the purpose of calculating the attendance for the courses.
- 8.5 Candidates who **secure less than 65% attendance and candidates who do not satisfy the clause8.2 and 8.3** shall not be permitted to write the End semester examinations of The courses at the end of the semester. They are required to repeat the incomplete course in the next academic year, when it is offered as per the curriculum and syllabi of the concerned discipline.
- 8.6 In case a student who is not permitted to attend the End-semester examination in any course due to shortage of attendance ,he/she will be awarded‘
- 8.7. Marks will be awarded for attendance as follows, for each course (theory or lab or EEC, etc.)

Attendance Percentage	<i>Marks awarded</i>
96-100% attendance	5 marks
91-95% attendance	4 marks
86-90% attendance	3 marks
81-85% attendance	2 marks
76-80% attendance	1 mark
75 and <75% attendance	0 mark

- 8.8. Each semester shall normally consist of 75 working days 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. The Head of the Department with the approval of the Head of the Institution may conduct additional classes for improvement, special coaching, conduct of model test etc., over and above the specified periods. But for the purpose of calculation of attendance requirement for writing the end semester examinations (as per section 8.2 and 8.3) by the students, following method shall be used.

Percentage of Attendance =

$$\frac{\text{Total no. of periods attended in the course in a semester}}{\text{(No. of periods for that course / week as prescribed in the curriculum) x 15}} \times 100$$

The Final End Semester Examination will ordinarily follow immediately after the last working day of the semester, commencing from I semester, as per the academic schedule prescribed from time to time.

## **9. SYSTEM OF EXAMINATION**

- 9.1** Performance in each course of study shall be evaluated based on (i) Continuous Internal Assessment (CIA) throughout the semester for 40 marks and (ii) End semester examination at the end of the semester for 60 marks.
- 9.2** Each course, both theory and practical (including project work & viva voce Examinations) and EEC shall be evaluated for a maximum of 100marks.
- 9.3** Industrial Training, Practical Training, Study Tour / Seminar, Summer Term Courses, Self-study courses, Semester Project, One credit and Online courses shall carry 100 marks and shall be evaluated through Continuous Internal Assessment (CIA) only.
- 9.4** The End semester examinations (theory and practical) of 3 hours duration shall ordinarily be conducted between October and November during the odd semesters and between March and April during the even semesters.
- 9.5** The End semester examination for project work shall consist of evaluation of the final report submitted by the student by an external examiner and an internal examiner, followed by a viva-voce examination by a committee consisting of the external examiner, the Guide and an internal examiner (Project coordinator).
- 9.6** For the Final end semester examination in both theory and practical courses including

project work the internal and external examiners shall be appointed by the Head of the Department in concurrence with Controller of Examination.

**9.7** The Internal assessment of project work will be carried out through a minimum of three assessments (presentations followed by oral examinations). At the completion of the project work, the student will submit a bound volume of the project report in the prescribed format. The project work will be evaluated by a team of duly appointed examiners. The final evaluation of the project work, will be based on the content of the report, presentation by the student and a viva-voce examination on the project. There will be 40 % weightage for Internal assessment and the remaining 60% for final evaluation. If the project work is not satisfactory, he/she will be asked to continue the project work and appear for assessment again within one month from the date of end semester examination by paying the prescribed fees.

**9.8 Publication:**

The students during their period of study in the Institute are encouraged to publish a paper. All publications (First Author) shall be in SCI / Web of Science / Scopus-indexed Journals / Scopus-indexed Conferences and shall be as per the guidelines prescribed by the Institute

**9.1. Co-curricular Activities**

The students during their period of study in the Institute are encouraged to participate in sports, arts, Social/Community service.

**9.10. Evaluation of Courses :**

**9.10.1. Theory Courses with and without Tutorial Component: (CIA: 40% + FE: 60%)  
Total:100Marks**

CIA Marks Distribution:

Internal Test I	10 Marks	40 Marks
Internal Test II	10 Marks	
Internal Test III	10 Marks	
Attendance	05 Marks	
Assignment	05 Marks	
Final Examination		60 Marks
<b>Total</b>		<b>100 Marks</b>

**9.10.2. Theory Courses with Lab Component: (CIA: 40% + FE: 60%) Total:100Marks**

CIA Marks Distribution:

Theory Component	
Internal Test I	10 Marks
Internal Test II	10 Marks
Internal Test III	10 Marks
Attendance	05 Marks
Assignment	05 Marks
Final Examination	60 Marks
<b>Total</b>	<b>100 Marks</b>

Laboratory Component	
<b>Internal</b> - Each Lab Exercise including Observation	40 marks (4 Marks, 10 experiments*)
<b>Final Examination</b> - Lab exam	40 Marks
<b>Final Examination</b> - Record	10 marks
<b>Final Examination</b> - Viva -Voce	10 Marks
<b>Total</b>	<b>100 marks</b>

Grade will be awarded separately for Theory and Laboratory component in the mark sheet.

\*Minimum of 12 experiments may be conducted per course.

**9.10.3. Laboratory Courses: (CIA: 40% + FE: 60%) Total: 100marks**

CIA Marks Distribution:

<b>Internal</b> - Each Lab Exercise including Observation	40 marks (4 Marks 10 experiments*)
<b>Final Examination</b> - Lab exam	40 Marks
<b>Final Examination</b> - Record	10 marks
<b>Final Examination</b> - Viva –Voce	10 Marks
<b>Total</b>	<b>100 marks</b>

**9.10.4. Seminar / Lecture: (CIA:100%)**

CIA Marks Distribution:

Content Preparation(5*5)	25 Marks
Presentation(5*10)	50 Marks
Question and Answer (5*5)	25 Marks
<b>Total</b>	<b>100 marks</b>



**9.10.5. Design Project :(CIA: 100%) Total:100Marks**

<b>CIA Marks Distribution</b>					
<b>Review– I</b>	Supervisor	10Marks	20 Marks	15 Marks	20 Marks
	Co Ordinator	10Marks			
<b>Review–II</b>	Supervisor	20 Marks	40 Marks		
	Co Ordinator	20 Marks			
<b>Review–III</b>	Supervisor	20Marks	40 Marks		
	Co Ordinator	20Marks			
<b>Attendance</b>				5 Marks	
<b>Final Examination Mark Distribution</b>					
Presentation & Viva Voce					80 Marks
	Supervisor	25 Marks			
	Co Ordinator	25 Marks			
Project Report					
	Supervisor	15 Marks			
	Co Ordinator	15 Marks			
<b>Total</b>					<b>100 marks</b>

**9.10.6. Project Work Phase I & II : (CIA: 40% + FE: 60%) Total: 100Marks**

<b>CIA Marks Distribution</b>					
<b>Review – I</b>	Supervisor	10 Marks	20 Marks	35 Marks	40 Marks
	Co Ordinator	10 Marks			
<b>Review – II</b>	Supervisor	20 Marks	40 Marks		
	Co Ordinator	20 Marks			
<b>Review – III</b>	Supervisor	20 Marks	40 Marks		
	Co Ordinator	20 Marks			
<b>Attendance</b>				5 Marks	
<b>Final Examination Mark Distribution</b>					
Presentation & Viva Voce					60 Marks
	Supervisor	10 Marks			
	Co Ordinator (Internal Examiner)	10 Marks			
	External Examiner	10 Marks			
Project Report					
	Supervisor	10 Marks			
	Co Ordinator (Internal Examiner)	10 Marks			
	External Examiner	10 Marks			
<b>Total</b>					<b>100 Marks</b>

### 9.10.7 Self Study / One credit courses: (CIA: 40% + FE: 60%) Total:100marks

CIA Marks Distribution:

Internal Test I	10 Marks	40 Marks
Internal Test II	10 Marks	
Internal Test III	10 Marks	
Attendance	05 Marks	
Assignment	05 Marks	
Final Examination / Certification		60 Marks
<b>Total</b>		<b>100 Marks</b>

## 10. REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATIONS

A candidate shall normally be permitted to appear for the End Semester Examinations for all the courses registered in the current semester (vide Section 7.1 & 7.5) if he/she has satisfied the semester completion requirements (subject to Section 8.2 & 8.3).

A candidate who has already appeared for any subject in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades.

## 11. PASSING REQUIREMENTS

11.1 A candidate who secures not less than 50% of the End Semester Examination and 50 % of total marks prescribed for the courses (Continuous Assessment + End semester Examinations or Continuous Assessment only) shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and practical courses (including project work and other Employability Enhancement Courses).

11.2 If a student fails to secure a pass in a Laboratory course, design project/Mini project the **student shall register** for the course again during subsequent semester.

11.3 If a student fails to secure a pass in Project work (Phase I & II), even after availing the grace period **the student shall register** for the course again during subsequent semester.

## 12. AWARD OF LETTER GRADES

12.1 All assessments of a course will be evaluated on absolute marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by

the candidate in each subject as detailed below:

Letter Grade	Grade Points	Marks Range	Result
O (Outstanding)	10	91 - 100	Pass
A + (Excellent)	9	81 - 90	Pass
A (Very Good)	8	71 – 80	Pass
B + (Good)	7	61 – 70	Pass
B (Average)	6	56 – 60	Pass
C (Satisfactory)	5	50-55	Pass
U	0	<50	RA
U	0	Absent	RA *
WD(Withdrawal)	-	-	
WH(Withheld)			
*Absent for University Examination			

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’ denotes that the student has failed to pass in that course. ‘WD’ denotes **withdrawal from** the exam for the particular course.

The grades RA and WD will figure both in Marks Sheet as well as in Result Sheet.

If the grade RA is given to any **theory course**, the attendance requirement need not be satisfied for writing supplementary examination, but if the grade RA is given to a **Laboratory Course/ Project work/Seminar and any other EEC course**, the attendance requirements (vide Section 8.2 & 8.3) should be satisfied.

### 13. PHOTOCOPY /REVALUATION

A candidate can apply for photocopy of his/her semester examination answer paper in a theory course, within five working days from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of Institution. The answer script is to be valued and justified by a faculty member, who handled the subject and recommend for revaluation with breakup of marks for each question. 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 Institution. Revaluation is not permitted for Practical courses, Online courses, Summer Courses, One credit course, Self-study courses, Industry/Practical Training, Study Tour/Seminar, Semester Project, Mini Project/Design Project / Case Study and for Project work. A student can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

#### 14. GPA AND CGPA CALCULATION

The coordinator of the Result Passing Board shall call for a meeting of the committee after the end-semester examinations, to pass the results. After results are declared, Grade Sheets will be issued to each student which will contain the following details:

The list of courses registered during the semester and the grades scored. The Grade Point Average (GPA) for the semester and the Cumulative Grade Point Average (CGPA) of all courses registered from first semester onwards and its equivalent percentage of marks.

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

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

Where  $C_i$  - is the Credits assigned to the course.

$GP_i$  - is the grade point corresponding to the letter grade obtained for each course

$n$  - is the number of all Courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.

CGPA will be calculated in a similar manner, considering all the courses enrolled from first semester. "RA" will be excluded for calculating GPA and CGPA.

#### Percentage conversion

$$\text{Percentage in a particular Programme} = \frac{\text{CGPA Earned}}{10} * 100$$

## **15. PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION**

- 15.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Chairman, sports board and HOD) be granted permission to withdraw from appearing for the end semester examination in any course or courses in any one of the semester examinations during the entire duration of the degree programme. The application shall be sent to the Controller of Examination through the Head of the Institution with required documents.
- 15.2 Withdrawal application is valid if the student is otherwise eligible to write the examination (Section 8.1) and if it is made within TEN days prior to the commencement of the examination in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examination.
- 15.3 Notwithstanding the requirement of mandatory 10 days of notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 15.4 In case of withdrawal from a course / courses (Section 15.1) the course will figure in Result Sheet. Withdrawal essentially requires the student should have registered for the course/courses. The student has to register for the course, fulfill the attendance requirements (vide Section 8.1), earn continuous assessment marks and attend the end semester examination. However, withdrawal shall not be construed as an appearance for the eligibility of a candidate for First Class with Distinction.

## **16. TEMPORARY BREAK OF STUDY FROM THE PROGRAMME**

- a. A student is not normally permitted to temporarily break the study. However, if a student intends to temporarily discontinue the programme in their idle for valid reasons (such as accident or hospitalization due to prolonged ill health) and to re-join the programme in a later respective semester, he/she shall apply to the Principal through the Head of the Department and stating the reasons therefore.
- b. A student is permitted to re-join the programme at the respective semester as and when it is offered after the break subject to the approval of Commissioner of Technical Education and Anna University, Chennai, and shall be governed by rules and regulations in force at the time of re-joining.
- c. The duration specified for passing all the courses for the purpose of classification (vide section 3.1) shall be increased by the period of such break of study permitted.
- d. The total period for completion of the programme reckoned from the commencement of the semester to which the student was first admitted shall not exceed them a maximum period specified in section 3.1 irrespective of the period of break of study in order that

he/she may be qualified for the award of the degree.

- e. If any student is detained for want of requisite attendance, progress and conduct, the period spent in that semester shall not be considered as permitted 'Break of Study'.

## **17. ELIGIBILITY FOR THE AWARD OF THE DEGREE**

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

- a. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.
- b. Successfully completed the course requirements, appeared for the End-Semester examinations and passed all the subjects prescribed in all the 4 semesters reckoned from the commencement of the semester to which the candidate was admitted.
- c. Successfully passed any additional courses prescribed by the Head of the Institution whenever readmitted under the new regulation in-force.
- d. No disciplinary action pending against the student.
- e. The award of Degree must have been approved by the Syndicate of the University.

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

### **18.1. First Class with Distinction:**

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

#### **M.E. / M.Tech.**

#### **Should have passed the examination in all the courses of all the four semesters in**

the student's First Appearance within **three** years, which includes authorized break of study of one year (if availed). Withdrawal from examination (vide Clause 18) will not be considered as an appearance.

- Should have secured a CGPA of not less than **8.50**.
- Should NOT have been prevented from writing end Semester examination due to lack of attendance in any of the courses.

**18.2 First Class:**

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

**M.E. / M.Tech**

- Should have passed the examination in all the courses of all four semesters **within three years** , which includes one year of authorized break of study (if availed) or prevention from writing the End Semester Examination due to lack of attendance (if applicable).
- Should have secured a CGPA of not less than **6.50**

**18.3 Second Class:**

All other students (not covered in Section 18.1 and 18.2) who qualify for the award of the degree (vide Section 17) shall be declared to have passed the examination in **Second Class**.

**18.4** A candidate who is absent in end semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification (subject to Section 8.2 and 8.3).

**19. AWARD OF RANK**

The rank shall be awarded based on the following:

A student shall be eligible for award of ranking only if he/she has passed the examination in first class with distinction or first class in having passed all the courses in first attempt. Those who have availed the provision of break of study / withdrawal will not be eligible for rank.

**20. INTERPRETATION CLAUSE**

Related to any of the academic matters, whenever there arises any doubt or dispute on the interpretation of regulations or rules, the decision of the Academic Council will be final as well as binding on all concerned.

**21. AMENDMENT TO REGULATIONS**

Notwithstanding anything stated above, the Institute reserves the right to modify any of the regulations, as deemed fit, from time to time.