

**REGULATIONS 2015**  
**(CHOICE BASED CREDIT SYSTEM)**  
(Common to all M.E./M.Tech. Degree Programmes)

***NOTE:** The regulations given hereunder are subject to amendments as may be decided by the Academic Council of the Institute from time to time. Any or all such amendments will be effective from such date and to such batches of students including those already in the middle of the programme as may be decided by the Academic Council.*

**1. ELIGIBILITY FOR ADMISSION**

- (i) Candidates seeking admission to the First Semester of M. E. / M. Tech. degree programmes will be required to satisfy the eligibility criteria for admission thereto prescribed by the Directorate of Technical Education, Chennai and Anna University, Chennai.
- (ii) Part-time candidates should satisfy conditions regarding experience, sponsorship, place of work and other requirements that may be prescribed by the Directorate of Technical Education, Chennai and Anna University, Chennai from time to time, in addition to satisfying requirements as in Clause 1 (i).

**2. DURATION OF THE PROGRAMME**

- (i) **Minimum Duration:** Master of Engineering (M.E.) / Master of Technology (M. Tech.) extends over a period of two years. The two academic years (Part-time three academic years) will be divided into four semesters (Part-time six Semesters) with two semesters per year.
- (ii) **Maximum Duration:** A candidate shall complete all the passing requirements of M. E. / M. Tech. programmes within a maximum period of 4 years / 8 semesters in case of full-time programme and 6 years / 12 semesters in case of part-time programme, these periods being reckoned from the commencement of the First semester to which the candidate was first admitted, regardless to the break-of-study availed.

**3. BRANCHES OF STUDY**

Following M.E. / M.Tech. Programmes are offered by the Institute

**M.E. Programmes**

1. Applied Electronics
2. CAD/CAM
3. Communication Systems
4. Computer Science and Engineering
5. Embedded Systems
6. Engineering Design
7. Industrial Automation and Robotics
8. Industrial Safety and Engineering
9. Instrumentation Engineering
10. Power Electronics and Drives
11. Software Engineering

12. Structural Engineering
13. VLSI Design

#### **M. Tech. Programme**

14. Biotechnology

#### **4. STRUCTURE OF PROGRAMMES**

- (i) **Curriculum:** Every Post Graduate Programme will have a curriculum with syllabi consisting of theory and practical courses that include **Foundation Courses** (Professional Communication, Mathematics and Research Methodology), **Professional Core** (core courses relevant to the chosen specialization), **Professional Electives** (elective courses) and **Employability Enhancement Courses** (Laboratory classes, Project Work, Internship, Seminar, Independent Studies, Case Study and Industrial / Practical Training).

**Full-time Programme:** Every full-time candidate shall undergo the courses of his/her programme in various semesters as shown below:

Semester 1: Mathematics, Communication, Core Theory, Elective and Practical

Semester 2: Communication, Core Theory, Elective, Practical and Technical Seminar

Semester 3: Elective Courses and Project work - Phase I

Semester 4: Project work -Phase II.

**Part-time Programme:** Every part-time candidate shall undergo the courses of his/her programme in various semesters as shown below:

Semester 1: Mathematics, Communication, Core Theory and Practical

Semester 2: Communication, Core Theory and Practical Courses

Semester 3: Core Theory and Practical Courses

Semester 4: Elective Courses and Technical Seminar

Semester 5: Elective Courses and Project work - Phase I

Semester 6: Project work - Phase II

- (ii) **Project Work:** Every student, individually, shall undertake the Project work - Phase I during the third semester (fifth semester for part-time programme) and the Project work - Phase II during the fourth semester (Sixth semester for part-time programme) under the supervision of a qualified faculty (faculty members with Ph.D. or P.G. with a minimum of 3 years of teaching experience). The Project work - Phase II shall be a continuation work of the Project work - Phase I. The Project work can be undertaken in an industrial / research organization or Institute in consultation with the faculty guide and the Head of the Department. In case of Project Work at industrial / research organization, the same shall be jointly supervised by a faculty guide and an expert from the organization.
- (iii) **Elective Courses:** Six Elective courses are offered to the students admitted in various disciplines as prescribed in the curriculum to widen their knowledge in their specialization area.

- (iv) **Online Courses:** A Student may be permitted to credit online courses with the approval of a Departmental Consultative Committee constituted by the Head of the Department, subject to a maximum of three credits. Such students may be exempted from attending the classes, if such course(s) are offered in the semester. Summary of such on-line courses, taken by the students, along with the offering agency shall be presented to the Academic Council for information and further suggestions. However, the student needs to obtain certification from the agency offering the course to become eligible for writing or seeking exemption from the End Semester Examination. In case of credits earned through online mode from the Institute / University, the credits may also be transferred directly after due approval from the Departmental Consultative Committee and the Office of the Controller of Examinations.
- (v) **One-Credit Courses:** A student can also opt for **one credit courses** of 15 to 20 hour duration, which will be offered by experts from the industry on specialized topics. A student is also permitted to register for the **one credit courses** offered by other departments subject to the approval from Head of Department, which offers the course. Credits of such courses will be indicated in the Grade Sheet if the student passes, but will not be considered for computing CGPA.
- (vi) **Industrial Training:** Every full-time student shall take-up training in the industry / research laboratories, under the supervision of a faculty guide, for a total period of 4 weeks during summer / winter vacation till pre-final semester of the programme subject to the evaluation prescribed in the Clause 15. Credits of such courses will be indicated for the course in the Grade Sheet if the student passes, but it will not be considered for computing CGPA.
- (vii) **Independent Study:** A student may be allowed to register for independent study of a subject with credits not exceeding three. Such study shall include, providing novel / unique solution(s) to the problems (may be software or hardware) that is identified through scientific analyses and approved by a technical committee, comprising Head of the Department, PG Programme Coordinator and a Domain Expert, nominated by the Head of the Institution. Assessment scheme for the Independent Study is given in Clause 15.
- (viii) **Mini Project:** A Mini Project shall be undertaken by the students individually in consultation with the respective faculty and Head of the Department, as specified in the curriculum. A student is expected to make a presentation about the mini-project during the final evaluation as given in the Clause 15.
- (ix) **Value Added / Certificate Courses:** Students can opt for any one of the Value added Courses in II and III semester, approved by the Academic Council. A separate Certificate will be issued on successful completion of the Course by the Controller of Examinations.
- (x) **Credit Assignment:** Each course is normally assigned a certain number of credits with 1 credit per lecture hour per week, 1 credit for 2 hours of practical per week, 1 credit for 2 hours of seminar per week, The exact numbers of credits assigned to the

different courses of various programmes are decided by the respective Boards of Studies.

- (xi) **Minimum Credits:** For the award of the degree, the student shall earn a minimum number of total credits as prescribed by the respective Board of Studies as given below:

S.No.	M.E./M. Tech. Programmes	Total Credits
1.	M.E. Applied Electronics	76
2.	M.E. CAD / CAM	77
3.	M.E. Communication Systems	76
4.	M.E. Computer Science and Engineering	77
5.	M.E. Embedded Systems	76
6.	M.E. Engineering Design	78
7.	M.E. Power Electronics and Drives	76
8.	M.E. Software Engineering	75
9.	M.E. Structural Engineering	80
10.	M.E. VLSI Design	76
11.	M.E. Industrial Safety and Engineering	78
12.	M.E. Industrial Automation and Robotics	78
13.	M.E. Instrumentation Engineering	79
14.	M.Tech. Biotechnology	77

## 5. COURSE ENROLLMENT AND REGISTRATION

- 5.1 Each student, on admission shall be assigned to a Faculty Advisor (vide Clause 7) who shall advise / counsel the student about the details of the academic programme and the choice of courses considering the student's academic background and career objectives.
- 5.2 Every student shall enroll for the courses of the succeeding semester, in the current semester. However, the student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the semester concerned.
- 5.3 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.
- 5.3.1 Each student on admission to the programme shall register for all the **courses prescribed in the curriculum** in the **first Semester of study**.
- 5.3.2 The enrollment for all the courses of the Semester II will commence 10 working days prior to the last working day of Semester I. The student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the Semester II.
- 5.3.3 If a student wishes, the student may drop or add courses (vide Clause 5.5) within **five** working days after the commencement of the semester concerned and complete the registration process duly authorized by the PG coordinator of the programme. In the case, if a student fails in a course, he / she may be permitted to register the course in the subsequent semester or when it is offered.

- 5.3.4 A student who has passed all the courses prescribed in the curriculum for the award of the degree shall not be permitted to re-enroll to improve the student's marks in a course or the aggregate marks / CGPA.

#### **5.4 Minimum Credits to Register for Project work**

The Project work for M.E. / M.Tech. consists of Phase – I and Phase - II. The Phase – I is to be undertaken during III semester (V semester for part-time programme) and Phase II, which is a continuation of Phase – I is to be undertaken during IV semester (VI semester for part-time programme). Minimum 24 credits are required to be earned to enroll the Project Phase I.

If a student fails to earn the requisite minimum credits, the student cannot enroll for the Project work-Phase I. In such a case, the student can enroll for the project work in a subsequent semester, after earning the minimum credits specified.

#### **5.5 Flexibility to Add or Drop courses**

5.5.1 A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree. However, if a student wishes, the student is permitted to earn more than the total number of credits prescribed in the curriculum of the student's programme by opting for one-credit courses or additional courses.

5.5.2 From the II to final semesters, the student has the option of registering for additional courses or dropping existing courses. Total number of credits of such courses cannot exceed 6. In such cases, the attendance requirement as stated Clause 6 is mandatory.

#### **5.6 Reappearance Registration**

5.6.1 If a student fails in a theory course, the student shall do reappearance registration for that course in the subsequent semester or when it is offered next.

5.6.2 On registration, a student may attend the classes for the reappearance registration courses, if the student wishes. However, the attendance requirement (vide Clause 6) is not compulsory for such courses.

5.6.3 The student who fails in any Laboratory Course/ Project work / Seminar or any other EEC courses shall register for the same in the subsequent semester or when offered next, and **repeat** the course. In this case, the student shall attend the classes, satisfy the attendance requirements (vide Clause 6), earn Continuous Assessment marks and appear for the End Semester Examinations. Reappearance Registration is not available for such courses.

5.6.4 If a student is prevented from writing the end semester examination of a course due to lack of attendance, the student has to register for that course again, when offered next, attend the classes and fulfill the attendance requirements as per Clause 6.

### **6. REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION OF A COURSE**

A student who has fulfilled the following conditions (vide clause 6.1 and 6.2) shall be deemed to have satisfied the attendance requirements for appearing for End Semester Examination of a particular course.

- 6.1 Ideally every student is expected to attend all the periods and earn 100% attendance. However, a student shall secure not less than 80% attendance (Physical presence) course wise taking into account the number of periods required for that course as specified in the curriculum.
- 6.2 If a student secures attendance between 70% and 79% in any course in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) or participation in Institution/ University/ State/ National/ International level extra and co-curricular activities, with prior permission from the Head of the Department, shall be permitted to appear for the current semester examinations subject to the condition that the student shall submit the medical certificate / participation certificate attested by the Head of the Department. Such certificates shall be forwarded to the Controller of Examinations for verification and for the permission to attend the examinations.
- 6.3 A student shall normally be permitted to appear for End Semester Examination of a course if the student has satisfied the attendance requirements (vide Clause 6.1 – 6.2) and has registered for examination in those courses of that semester by paying the prescribed fee.
- 6.4 A Student who does not satisfy clause 6.1 and 6.2 and who secure less than 70% attendance in a course will not be permitted to write the End-Semester Examination of that course. The student has to register and repeat this course in the subsequent semester or when it is offered next (vide clause 5.6.4).
- 6.5 A student who has already appeared for a course in a semester and passed the examination is not entitled to reappear in the same course for improvement of grades / marks.

## **7. FACULTY ADVISOR**

To help the students in planning their courses of study and for general advice on the academic programme, the Head of the Department will attach a certain number of students to a Faculty member of the Department who shall function as Faculty Advisor for those students. The Faculty Advisor shall advise and guide the students in registering of courses, reappearance of courses, monitor their attendance and progress and counsel them periodically. If necessary, the Faculty Advisor may also discuss with or inform the parents about the progress / performance of the students concerned.

## **8. COMMITTEES**

### **8.1 Common Course Committee**

- (i) A theory course handled by more than one faculty shall have a “Common Course Committee” comprising of all members of faculty teaching that course with one of the members as the Course Coordinator, nominated by the Head of the Institution and student representatives (one per specialization) registered for that course in the current semester.
- (ii) The first meeting of the Common Course Committee shall be held within fifteen days from the date of commencement of the semester. Two subsequent meetings in a semester may be held at suitable intervals. During these meetings, the student members shall meaningfully interact and express their opinions and suggestions of all the students to improve the effectiveness of the teaching-learning process. It is

the responsibility of the student representatives to convey the proceedings of these meetings to all the students.

In addition, Common Course Committee (without the student representatives) shall meet to ensure uniform evaluation through the common question papers during Continuous Assessment and End Semester Examinations.

### **8.2 Class Committee Meeting**

- (i) For all the courses taught, prescribed in the curriculum, Class Committee meeting shall be convened thrice in a semester (first meeting within 2 weeks from the commencement of the semester and other two meetings at equal interval after the first meeting before the commencement of End Semester Examination) comprising members of the faculty handling all the courses and two student representatives from the class.
- (ii) One of the members of the faculty (not handling any courses to that class), nominated by the Head of the Department, shall coordinate the activities of this Committee. During these meetings, the student members shall meaningfully interact and express their opinions and suggestions of all the students to improve the effectiveness of the teaching-learning process. It is the responsibility of the student representatives to convey the proceedings of these meetings to all other students.

## **9. ASSESSMENT AND PASSING REQUIREMENTS**

### **9.1 Assessment**

The assessment will comprise Continuous Assessment and End Semester Examination, carrying marks as specified in the scheme (Clause 15). All assessments will be done on absolute marks basis. However, for the purpose of reporting the performance of a student, Letter Grades and Grade Points will be awarded as per Clause 9.4.

### **9.2 End Semester Examinations**

End Semester Examinations will normally be conducted as per the time table circulated by the Office of the Controller of Examination. Supplementary examinations may be conducted at such times as may be decided by the Institute.

A student will be permitted to appear for the End Semester Examination of a semester only if he/she completes the study of that semester satisfying the requirements given in Clause 5 and 6, and registers simultaneously for the examinations of the highest semester eligible and the courses, pertaining to that semester, that need reappearance.

### **9.3 Employability Enhancement Courses**

Every candidate shall submit reports on Seminar / Industrial training / Mini-project, Project Work - Phase I and Project Work - Phase II on dates announced by the Institute / Department through the faculty guide to the Head of the Department. If a candidate fails to submit the reports of any of these courses not later than the specified date, he/she is deemed to have failed in it. The reports /papers shall be orally presented by the student before a team of expert consisting of an internal examiner, usually the supervisor, and an external examiner, appointed by the Head of the Institution.

A candidate is permitted to register for the Project Work -Phase II, only after passing the Project Work -Phase I. A candidate who fails in Industrial training / Mini-project, Project Work -Phase I or Project Work- Phase II shall register for redoing the same at the beginning of a subsequent semester.

**9.4 Letter Grade and Grade Point:** The Letter Grade and the Grade Point are awarded based on percentage of total marks secured by a candidate in an individual course as detailed below:

Range of Percentage of Total Marks	Grade Point	Letter grade
91 to 100	<b>10</b>	O (Outstanding)
81 to 90	<b>9</b>	A + (Excellent)
71 to 80	<b>8</b>	A (Very Good)
61 to 70	<b>7</b>	B + (Good)
50 to 60	<b>6</b>	B (Above average)
0 to 49	<b>0</b>	RA (Reappearance)
Incomplete	<b>0</b>	I
Withdrawal	<b>0</b>	W
Absent	<b>0</b>	AB

‘RA’ – Reappearance registration is required for that particular course

‘I’ -- Continuous evaluation is required for that particular course in the subsequent examinations.

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

$$GPA/CGPA = \frac{\sum_1^n C_i * g_i}{\sum_1^n C_i}$$

where  $C_i$  : Credit allotted to the course.

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

$n$  : number of courses successfully cleared during the particular semester in the case of GPA and all the semesters, under consideration, in the case CGPA.

**9.5** A student can apply for reevaluation of his / her semester examination / supplementary examination answer paper in a theory course, within 3 working days from the declaration of results, along with prescribed application to the Controller of Examinations through the Head of Department. Reevaluation is not permitted for laboratory courses, industrial training and project works.

**9.6 Passing a Course**

A candidate who secures Grade Point 6 or more in any course of study will be declared to have passed that course, provided, if secures a minimum of 50% of the total mark in the End Semester Examination of that course. The Continuous Assessment (CA) marks obtained by the candidate in the first appearance shall be retained and considered valid for one subsequent attempt, except Clause 5.6.3. However, from the third attempt onwards the candidate shall be declared to have



passed the course if he/she secures a minimum of 6 Grade Points in the course prescribed during the End Semester Examination alone.

- 9.7** Besides satisfying the above Clauses, a student shall present a technical paper, based on the courses of study, in a National or an International conference before the completion of semester IV.

## **10. REJOINING THE PROGRAMME**

A candidate who has not completed the study of any semester as per Clause 6 or who is allowed to rejoin the programme after the period of discontinuance or who on his/her own request is permitted to repeat the study of any semester (break of study), may join the semester which he /she is eligible or permitted to join, only at the time of its normal commencement for a regular batch of candidates and after obtaining the approval from the Director of Technical Education and Anna University, Chennai. In such case, earlier Continuous Assessment in the repeated courses will be disregarded. No candidate will however be allowed to enroll in more than one semester at any point of time.

## **11. QUALIFYING FOR THE AWARD OF THE DEGREE**

A candidate will be declared to have qualified for the award of the M.E. / M.Tech. Degree provided:

- (i) he/she has successfully completed the course requirements and has passed all the prescribed courses of study of the respective programme listed in Clause 3 within the duration specified in Clause 2.
- (ii) No disciplinary action is pending against the candidate.

## **12. CLASSIFICATION OF DEGREE**

**12.1 First Class with Distinction:** A student who qualifies for the award of the Degree having passed all the courses of study of all the Semesters at the first opportunity, within four consecutive semesters (six consecutive semesters for part - time) after the commencement of his / her study and securing a CGPA not less than 8.50 (vide Clause 9.4) shall be declared to have passed with **First Class with Distinction**.

**12.2 First Class:** A student who qualifies for the award of the Degree having passed all the courses of study of all the semesters within a maximum period of six consecutive semesters (eight consecutive semesters for part-time students) after the commencement of his / her study and securing a CGPA not less than 6.50 shall be declared to have passed with **First Class**.

**12.3** For the above purposes (Clause 12.1 – 12.2), One year authorized break of study (if availed) is permitted in addition to four semesters (six semesters for Part-time) for the award of the Degree.

**12.4 Second Class:** All other students who qualify for the award of Degree shall be declared to have passed in Second Class.

## **13. WITHDRAWAL FROM EXAMINATION**

**13.1** A student may, for valid reasons, be granted permission by the Head of the Department to withdraw from appearing in the examination in any course(s) of only once during the entire duration of the degree programme.

- 13.2 Withdrawal application shall be valid only, if the student is eligible to write the examination as per Clause 6 and, if such request for withdrawal is made prior to the submission of marks of the Continuous Assessment of the course(s) with the recommendations from the Head of the Department.
- 13.3 Withdrawal shall not be construed as an opportunity for appearance in the examination for the eligibility of a candidate for First Class with Distinction or First Class.

#### **14. AUTHORIZED BREAK OF STUDY FROM A PROGRAMME**

- 14.1 A student is permitted to go on break of study for a maximum period of one year either as two breaks of one semester each or a single break of one year.
- 14.2 A student who would like to avail the break of study, on account of short term employment / Medical treatment / personal reasons) shall apply to the Head of the Institution through concerned Head of the Department, (application available with the Controller of Examinations), in any case, not later than the last date for registering for the semester.
- 14.3 The students permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining. A committee constituted by the Head of the Institution shall prescribe additional / equivalent courses, if any, from the regulation in-force, so as to bridge the requirement between curriculum in-force and the old curriculum.
- 14.4 The total period for completion of the programme reckoned from the commencement of the first semester to which the student is admitted shall not exceed the maximum period specified in the Clause 2, irrespective of the period of break of study in order that he / she may be eligible, for the award of the degree (vide Clause 11 and 12).
- 14.5 In case of any valid reasons for the extension of break-of-study, such extended break-of-study may be granted by the Head of the Institution for a period not more than one year in addition to the earlier authorized break of study. Such extended break-of-study shall be counted for the purpose of classification of degree (vide clause 12).
- 14.6 If a student does not report back to the Institute, even after the extended Break of Study, the name of the student shall be deleted permanently from the college enrollment. Such candidates are not entitled to seek readmission under any circumstances.

## 15. SCHEME OF ASSESSMENT

<b>I</b>	<b>THEORY COURSES</b>	<b>Marks</b>
	<b>Continuous Assessment</b>	<b>50</b>
	<b>Distribution of marks for Continuous Assessment:</b>	
	Test I (15)	
	Test II (15)	
	Term Paper Report & Presentation (5+10)	
	Innovative Presentation: (5)	
	Quiz / GD / Case Study / Review of state-of-the-art / Open Book Assignment	
	<b>End Semester Examination</b>	<b>50</b>
	<b>Total Marks</b>	<b>100</b>
<b>II</b>	<b>THEORY COURSES WITH LAB COMPONENT</b>	<b>Marks</b>
	<b>Continuous Assessment</b>	<b>50</b>
	<b>Distribution of marks for Continuous Assessment:</b>	
	Test I (10)	
	Test II (10)	
	<u>Conduct of Experiment</u>	
	Preparation, Experiment and Results (5)	
	Record Note <sup>#</sup>	
	Final Lab Examination (25)	
	<b>End Semester Examination</b>	<b>50</b>
	(QP pattern as per (I))	
	<b>Total Marks</b>	<b>100</b>
<b>III</b>	<b>TECHNICAL SEMINAR</b>	<b>Marks</b>
	<b>(CONTINUOUS ASSESSMENT ONLY)</b>	
	Seminar Presentation (4x20)	80
	Seminar Report Preparation	20
	<b>Total Marks</b>	<b>100</b>
<b>IV</b>	<b>ONE-CREDIT COURSE</b>	<b>Marks</b>
	Test	15
	Quiz	10
	<b>Final Examination</b>	<b>25</b>
	<b>Total Marks</b>	<b>50</b>

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<b>V</b>	<b>LANGUAGE COURSE (CONTINUOUS ASSESSMENT ONLY)</b>	<b>Marks</b>
	<b><u>Test 1</u></b>	
	Listening (10)	
	Speaking (5)	<b>25</b>
	Reading (5)	
	Writing (5)	
	<b><u>Test 2</u></b>	
	Listening (10)	
	Speaking (5)	<b>25</b>
	Reading (5)	
	Writing (5)	
	<b>Oral Exam</b>	<b>50</b>
	<b>Total Marks</b>	<b>100</b>
<b>VI</b>	<b>PRACTICAL</b>	<b>Marks</b>
	<b>Continuous Assessment</b>	<b>50</b>
	<b>Distribution of marks for Continuous Assessment:</b>	
	<b><u>Conduct of Experiment</u></b>	
	i. Observation and Analysis of Results (10)	
	ii. Preparation (5)	
	iii. Record <sup>#</sup> (5)	
	Test – Cycle I (15)	
	Test – Cycle II / Mini Project (15)	
	<b>End Semester Examination</b>	
	Experiments & Results (40)	<b>50</b>
	Viva Voce (10)	
	<b>Total Marks</b>	<b>100</b>
<b>VII</b>	<b>PROJECT PHASE I</b>	<b>Marks</b>
	<b>Continuous Assessment</b>	<b>50</b>
	<b><i>Distribution of marks for Continuous Assessment:</i></b>	
	<b><u>Presentation I</u></b>	
	Identification of topic and Justification (5)	
	Literature Survey (20)	
	<b><u>Presentation II</u></b>	
	Work plan (5)	
	Progress, Approach and Results (20)	
	<b>End Semester Examination</b>	
	Presentation and Demonstration (20)	<b>50</b>
	Report <sup>#</sup> (10)	
	Viva Voce (20)	
	<b>Total Marks</b>	<b>100</b>

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<b>VIII</b>	<p><b>PROJECT PHASE II</b></p> <p><b>Continuous Assessment</b></p> <p><b>Distribution of marks for Continuous Assessment:</b></p> <p><u>Presentation I</u>                      Continuation in Methodology (10)</p> <p><u>Presentation II</u>                      Methodology (10)                      Results (10)</p> <p><u>Presentation III</u>                      Final Report (10)                      Report Presentation (10)</p> <p><b>End Semester Examination</b>                      Presentation and Demonstration (20)                      Report<sup>#</sup> (10)                      Viva Voce (20)</p> <p><b>Total Marks</b></p>	<p><b>Marks</b></p> <p><b>50</b></p> <p><b>50</b></p> <p><b>100</b></p>
<b>IX</b>	<p><b>INDEPENDENT STUDY</b></p> <p><b>Continuous Assessment</b></p> <p><b>Distribution of marks for Continuous Assessment:</b></p> <p><u>Presentation I</u>                      Problem Identification with Justification (10)                      Solutions with Alternative Concepts (15)</p> <p><u>Presentation II</u>                      Continuation in Solutions with Alternative Concepts (15)                      Conclusion (10)</p> <p><b>End Semester Examination</b>                      Report<sup>#</sup> – (10)                      Presentation of Report (20)                      Viva Voce – (20)</p> <p><b>Total Marks</b></p>	<p><b>Marks</b></p> <p><b>50</b></p> <p><b>50</b></p> <p><b>100</b></p>
<b>X</b>	<p><b>INDUSTRIAL TRAINING / INTERNSHIP</b>  <b>(CONTINUOUS ASSESSMENT ONLY)</b></p> <p>Presentation</p> <p>Report with acknowledgement from Industry Supervisor<sup>#</sup></p> <p><b>Total Marks</b></p>	<p><b>Marks</b></p> <p>80</p> <p>20</p> <p><b>100</b></p>
<b>XI</b>	<p><b>VALUE ADDED COURSES / CERTIFICATE COURSES</b>  <b>(CONTINUOUS ASSESSMENT ONLY)</b></p> <p>Test</p> <p>Final Evaluation / Test</p> <p>Grades (Excellent / Good / Satisfactory / Not Satisfactory)</p>	<p><b>Marks</b></p> <p>50</p> <p>50</p>

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<sup>#</sup> Reports / Record Note / Integrated Lab Manual to be retained for 1 year for Academic Audit

**Optional Test:** A student becomes eligible to appear for the one optional test conducted after the Periodical Test II, only under the following circumstances, if absent for Test I or Test II or both, on account of (i) medical reasons (hospitalization / accident / specific illness) (ii) participation in the College / University / State / National / International level Sports events with prior permission from the Head of the Institution and (iii) on satisfying the conditions (i) or (ii), the student should have registered for the Optional Test, through the concerned faculty member who handles the course or through the respective Head of the Department, submitted to the Controller of Examinations. Such Optional Tests are not conducted for the courses under the categories III, IV, V, VI, VII, VIII, IX, X and XI listed above.

## 16. DISCIPLINE

A student is expected to follow the rules and regulations laid down by the Institute and the affiliating University, as published from time to time. Any violations, if any, shall be treated as per the procedures stated thereof.

If a student indulges in malpractice in any of the End Semester / Continuous Assessments, he / she shall be liable for punitive action as prescribed by the Institution / University from time to time.

The Question Paper Pattern (Theory Examination) for PG course is given below:

Type	Questions	Marks
Part A	Fill in the Blanks (10x1 Marks)	10
Part B	2 Mark Questions (10 x 2 Marks)	20
Part C	10 Mark Questions (5 x 10 Marks)	50
Part D	20 Mark Question (1 x 20 Marks)	20
	Total	100