

**K.L.N. COLLEGE OF ENGINEERING**  
**Pottapalayam – 630612, Sivagangai District**  
**(An Autonomous Institution, Affiliated to Anna University, Chennai)**



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**REGULATIONS 2024 (Draft Version)**  
**For Post Graduate Programs M.E and M.C.A**

**CHOICE BASED CREDIT SYSTEM**  
**(For the students admitted from the academic year 2024-2025 onwards)**

**K.L.N. COLLEGE OF ENGINEERING**  
**Pottapalayam – 630 612, Sivagangai District, Tamilnadu**  
**(An Autonomous Institution, Affiliated to Anna University, Chennai)**

**REGULATIONS 2024**

**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**COMMON TO M.E. AND M.C.A. PROGRAMMES**  
**(For the students admitted from the academic year 2024-2025 onwards)**

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**K.L.N. COLLEGE OF ENGINEERING**

Pottapalayam – 630 612, Sivagangai District, Tamilnadu

*(An Autonomous Institution, Affiliated to Anna University, Chennai)***REGULATIONS 2024****CHOICE BASED CREDIT SYSTEM****COMMON T.O.M.E.AND M.C.A. PROGRAMMES****(For the students admitted from the academic year 2024-2025 onwards)**

**VISION:** To become a Centre of Excellence in Technical Education and Research in producing Competent and Ethical professionals to the society

**MISSION:** To impart Value and Need based curriculum to the students with enriched skill development in the field of Engineering, Technology, Management and Entrepreneurship and to nurture their character with social concern and to pursue their career in the areas of Research and Industry.

**1 PRELIMINARY DEFINITIONS AND NOMENCLATURE**

In these Regulations, unless the context otherwise requires:

- i. **“Programme”** means Post graduate Degree Programme e.g. M.E., M.C.A. Degree Programme.
- ii. **“Discipline”** means specialization or branch of M.E. Degree Programme like “Power Systems Engineering” etc.
- iii. **“Course”** means Theory or Practical subject that is normally studied in a semester, like Database Management Systems ,Machine Learning, etc.
- iv. **“Head of the Institution”** means Principal of the College, who is responsible for all academic activities of the College and for implementation of relevant Rules and Regulations.
- v. **“Chairperson, Academic Council”** means the authority of the college who is responsible for all academic activities of the college for implementation of relevant Rules and Regulations.
- vi. **“Chairman, BOS”** means Chairman of Board of studies of M.E / MCA department.
- vii. **“Controller of Examinations”** means the authority of the autonomous Institution, who is responsible for all activities of the END SEMESTER Examinations.
- viii. **“Director”** means Director for MCA.
- ix. **“Head of the Department (HOD)”** means the Head of the Department concerned.
- x. **“University”** means ANNA UNIVERSITY, CHENNAI.

## 2 PROGRAMMES OFFERED, MODES OF STUDY AND ADMISSION REQUIREMENTS

### 2.1 P.G.PROGRAMMES OFFERED

1. M.E.
2. M.C.A.

### 2.2 MODES OF STUDY

#### Full-Time Mode:

Students admitted under 'Full-Time' should be available in the College during the entire duration of working hours (From Morning to Evening on Full-Time basis) for the curricular, co-curricular and extra-curricular activities assigned to them.

The Full-Time students should not attend any other Full-Time programme(s) / course(s) or take up any Full-Time job / Part-Time job in any Institution or Company during the period of the Full-Time programme. Violation of the above rules will result in cancellation of admission to the P.G. programme. However, taking up of job is permitted with authorized break of study as explained in Clause 19.7.

#### Part-Time Mode:

In this mode of study, the students are required to attend classes conducted in the regular timings and complete the course in three years. Conversion from one mode of study to the other is not permitted.

### 2.3 ADMISSION REQUIREMENTS

**2.3.1** 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** or equivalent as specified under qualification for admission as per the Tamil Nadu Common Admission (TANCA) criteria. This is applicable for students admitted both under Single Window Counselling process and through the Management Quota.

**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.

**2.3.2** 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.

**2.3.3** However, the University may decide to restrict admission in any particular year to candidates having a subset of qualifications prescribed at the time of admission.

**2.3.4** 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 University from time to time.

**2.3.5** 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 University from time to time.

**2.3.6** All part-time candidates should satisfy other conditions regarding experience, sponsorship etc. that may be prescribed by the University time to time.

### 3 STRUCTURE OF THE PROGRAMMES

#### 3.1 Categorization of Courses

Every Post Graduate Degree Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

- i. **Foundation Courses(FC)** may include Mathematics or other basic courses
- ii. **Professional Core Courses(PCC)** include the core courses relevant to the chosen specialization/branch.
- iii. **Professional Elective Courses (PEC)** include the elective courses relevant to the chosen specialization/branch.
- iv. **Research Methodology and IPR Course (RMC)** covers topics on the process of research and patenting.
- v. **Employability Enhancement Courses(EEC)** include Project Work and /or Internship, Seminar, Professional Practices, Summer Project, Case Study and Industrial/Practical Training.
- vi. **Open Elective Courses(OEC)** include the courses offered by MCA to other PG department students.
- vii. **Audit courses (AC)** include the courses such as Constitution of India, Value Education etc.

#### 3.2 Courses per Semester

Curriculum of a semester shall normally have a blend of lecture courses and practical courses including Employability Enhancement Courses. Each course shall have credits assigned as per Clause 3.3.

### 3.3 Credit Assignment

Each course is assigned certain number of credits based on the following:

Contact period per week	Credits
1LecturePeriod	1
1TutorialPeriod	1
1 Practical Period (Laboratory /Seminar/Project Work etc.)	0.5

### 3.4 Project Work

**3.4.1** The project work for M.E. Programme consist of Project Work–I and Project Work–II.

The Project Work–I is to be undertaken during Semester III and Project Work–II, which is a continuation of Project Work–I, (except when project work II is carried out in the industry) is to be undertaken during Semester IV.

**3.4.2** Students of MCA must do a project in the final semester i.e in the IV semester. They shall do their final project in industries, research organizations and/or academic institutions like college / university during the final semester.

**3.4.3** In case of students of M.E. Programme not completing Project Work-I of project work successfully, the students can undertake Project Work-I again in the sub sequent semester. In such cases the students can enroll for Project Work-II, only after successful completion of Project Work-I.

**3.4.4** Project work shall be carried out under the supervision of a “qualified teacher” in The Department concerned. In this context“ qualified teacher” means the faculty member possessing (i) PG degree with a minimum of 3 years experience in teaching or (ii) Ph.D. degree.

**3.4.5.** A student may, however, undergo Project Work-II (M.E. Programme) in industry / academic institution of repute offering PG programmes in Engineering/Technology (other than affiliated colleges of Anna University)/ research institutions for a minimum of 16 weeks during the final semester. In such cases, the students shall undergo the Project Work-II with the approval obtained from the Head of the institution and Chairperson, Academic Council preferably one month before the start of the industrial project.

**3.4.5** The Project Work-II carried out in industry/academic institution of repute/research institution need not be a continuation of Project Work-I. In such cases, the project work shall be supervised by a supervisor of the department 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 Institution and suitable record of the meetings shall be maintained.

- 3.4.6 The Project Work of MCA (Project Work-II in the case of M.E.) shall be pursued for a Minimum of 16 weeks during the final semester.
- 3.5 The deadline for submission of final Project Report (Project Work-II for M.E. programmes) is 30 calendar days from the last working day of the semester in which project work / thesis / dissertation is done. However, the Project Work-I in the case of M.E. Programme shall be submitted within the last working day of the semester as the academic calendar published by the Chairperson, Academic council

### **3.6 Industrial Training/Internship (Summer/Winter Vacation)**

**3.6.1** The students may undergo Industrial Training for a period as specified in the Curriculum during the summer/winter vacation. In this case, the training has to be undergone continuously for at least two weeks to the extent of six weeks in an organization.

The students may undergo Internship at a Research organization/University/Industry (after due approval from the Head of the Institution and a copy of the same shall be forwarded to the Chairperson, Academic Council) for the period prescribed in the curriculum during the summer / winter vacation, in lieu of Industrial training. Attendance Certificate signed by the competent authority of the industry, as per the format provided by the Chairperson, Academic Council shall be submitted to the Head of the Institution. The attendance certificate shall be forwarded to COE, KLNCE by the Head of the Institution for processing results.

**3.6.2** If Industrial Training/ Internship is not prescribed in the curriculum, the student may undergo Industrial Training/ Internship during Summer/Winter vacation optionally and the credits earned will be indicated in the Grade Sheet. If the student earns three credits in Industrial Training/ Internship, the student may drop one Professional Elective (only one professional elective can be dropped). In such cases, Industrial Training / Internship need to be undergone continuously from one organization or with a combination one two week and one four week programme, from one/two organizations. However, if the number of credits earned is 1 or 2, these credits shall not be considered for classification of the degree. Students shall get permission from the Head of the Institution for taking industrial training/internship and the Certificate of completion of Industrial Training / Internship shall be forwarded to COE.

DURATION OF TRAINING/INTERNSHIP	CREDITS
2 Weeks*	1
4 Weeks	2
6 Weeks	3

**\*1Week=40 Internship Hours**

3.7 Instead of two electives (professional elective/open elective) in the curriculum, the student may be permitted to choose a maximum of 2 courses from other PG programmes with the approval of the Head of the Department offering such courses.

### 3.8 Value Added Courses

The Students may optionally undergo Value Added Courses (VAC) over and above the topics covered in the curriculum to obtain practical and industry specific knowledge. The credits earned through the Value Added Courses shall be over and above the total credit requirements prescribed in the curriculum for the award of the degree. Two / Three credit courses shall be offered by a Department of an institution **with the prior approval from the Head of the Institution and the Chair person academic council without any additional fee charged from the students.** The details of the syllabus, time table and faculty should be approved by the Chairperson, Academic Council, at least one month before the course is offered for approval. Students can take a maximum of two one credit courses / one two credit course during the entire duration of the programme.

### 3.9 Online Courses

Students may be permitted to credit a maximum of two online courses subject to a maximum of six credits in lieu of professional elective / open elective courses of curriculum as approved by the Head of the Institution. Students are permitted to optionally enroll and study these courses through SWAYAM / NPTEL platforms and credit transfer is to be done based on the marks and certificate provided by the NPTEL. The number of credits and transfer of credits are based on the procedure explained in Table 3 and the Mapping of the marks with the grades is explained in Table 4. The mapping of marks with grades is applicable, only if the student passes the course as per the guidelines of NPTEL. A student is permitted to register a maximum of two courses during the entire study period.

Table 3: Duration of the Course and Number of Credits

Serial Number	Number of Weeks	Number of Credits
1	4	1
2	8	2
3	12	3



Table 4: Mapping of Marks scored in NPTEL course and Credits earned

Letter grades	Marks
O	90-100
A+	80-89
A	70-79
B+	60-69
B	50-59
C	40-49

### 3.10 Bridge Courses

Candidates admitted under MCA program and who belong to non IT branches like B.Sc. Physics, Chemistry etc in their Under Graduate, must study **three** bridge courses per semester up to second semester as approved by BOS members and ACM members. One internal test will be conducted during the semester and 40% weightage will be given to internal marks. End semester examination will be conducted by the COE office and 60% weightage will be given to external marks. These bridge course grades will appear on the grade sheet of non IT students. The credits earned will not be considered for computation of CGPA. The prescribed bridge courses have to be completed within the maximum duration of four years.

### 3.11 Audit courses

The student may optionally study audit courses prescribed by the BOS and it will be mentioned in the Grade Sheet. However, it will not be considered for computation of CGPA.

### Medium of Instruction

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

## 4 DURATION AND STRUCTURE OF THE PROGRAMMES

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

Programme	Minimum Number of Semesters	Maximum Number of Semesters
M.E.(Full-Time)	4	8
M.E. (Part Time)	6	12
M.C.A.(Full Time)*	4	8

*\* Bridge courses are to be conducted for students from non-computer science background.*

4.2 The Curriculum and Syllabi of all the P.G. Programmes shall be approved by the

Academic Council of the college. The number of credits to be earned for the successful completion of the programme shall be as specified in the Curriculum of MCA / the respective specialization of the P.G. Programme.

- 4.3 Each semester shall normally consist of 75 working days or 540 periods of each 50 minutes duration, for full-time mode of study or 250 periods for part-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. For the purpose of calculation of attendance requirement for writing the end semester examinations (as per clause 10) by students, following method shall be used.

$$\text{Percentage of Attendance} = \frac{\text{Total no. of periods attended in all the courses per Semester}}{\text{-----} \times 100} \\ \text{(No. of periods/week as prescribed in the curriculum) \times 15 taken together for all courses of the semester )}$$

End Semester Examinations conducted by COE will be scheduled after the last working day of the semester.

- 4.4 The minimum prescribed credits required for the award of the degree shall be with in the limits specified below:

Programme	Prescribed Credit Range
M.E.	70-75

Programme	Prescribed Credit Range
MCA	80– 90

**5. COURSE REGISTRATION**

5.1 The Department is responsible for registering the courses that each student is proposing to undergo in the ensuing semester. Each student has to register for all courses to be undergone in the curriculum of a particular semester (with the facility to drop courses to a maximum of 6 credits (vide clause 5.2)). The student can also register for courses for which the student has failed in the earlier semesters.

The registration details of the candidates may be approved by the Head of the Institution and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations. No Elective course shall be offered by the department unless a minimum 10 students register for the course.

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.

The courses that a student registers in a particular semester may include

- Courses of the current semester
- The core (Theory/ Lab /EEC) courses that the student has not cleared in the

previous semesters

- Elective courses which the student failed
- Courses dropped in the lower semesters

## 5.2 Flexibility to Drop courses

A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree.

From the first to pre-final semesters, the student has the option of dropping existing courses in a semester during registration. Total number of credits of such courses cannot exceed 6 for P.G. (Full Time) programmes and cannot exceed 3 for P.G. (Part Time) programmes. The student is permitted to drop the course(s) within 30 days of the commencement of the academic schedule.

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

## 6 EVALUATION OF PROJECT WORK

The evaluation of Project Work for Project Work-I & Project Work-II in the case of M.E. and Project Work of M.C.A shall be done independently in the respective semesters and marks shall be allotted as per the weightages given in Clause 6.1

- 6.1. There shall be three assessments (each 100 marks) during the Semester by review committee. The student shall make presentation on the progress made before the Committee. The HOD / Director shall constitute the review committee for each programme. The review committee consists of supervisor, 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. The total marks obtained in the three assessments shall be reduced to 60 marks and rounded to the nearest integer (as per the Table given below). There will be a vice-voce Examination during End Semester Examinations conducted by a Committee consisting of the supervisor, one internal examiner and one external examiner. The internal examiner and the external examiner shall be appointed by the Controller of Examination. The distribution of marks for the internal assessment and End semester examination is given below:

Internal Assessment(60Marks)			End Semester Examination(40Marks)			
Review-I	Review-II	Review-III	Thesis Evaluation	Viva -Voce		
			External Examiner	Internal Examiner	External Examiner	Supervisor Examiner
20	20	20	10	10	10	10

6.2 The Project Report prepared according to approved guidelines as given by the Chair person, Academic Council, and duly signed by the supervisor(s) and the Head of the Department concerned shall be submitted to the Controller of Examination.

6.3 If the student fails to obtain 50% of the internal assessment marks in the Project Work-I and Project Work-II / final project, he/she will not be permitted to submit the project report and has to register for the same in the subsequent semester.

If a student fails to submit the project report on or before the specified deadline as mentioned in clause 3.5, he/she is deemed to have failed in the Project Work and shall register for the same in a subsequent semester. This applies to both for Project Work-I and Project Work-II in the case of M.E. and the Final Project Work of M.C.A.

If a student fails in the end semester examinations of Project Work-I, he/she has to resubmit the Project Report within 30 days from the date of declaration of the results. If he /she fail in the End semester examination of Project Work-II of Project work of M.E. or the Final Project Work of M.C.A, he/she shall resubmit the Project Report within 60 days from the date of declaration of the results. The resubmission of a project report and subsequent viva-voce examination will be considered as reappearance with payment of exam fee. For this purpose the same Internal and External examiners shall evaluate the resubmitted report.

If a student has submitted the project report but did not appear for the viva-voce examination, it will be considered as fail and he/she will be permitted to resubmit the report within 30 days from the declaration of results and permitted for reappearance in viva-voce examination, for Project Work-I and II respectively.

6.3.1 A copy of the approved Project Report after the successful completion of viva-voce examinations shall be kept in the library of the college.

6.3.2 Practical / Industrial Training, Summer Project if specified in the Curriculum shall not exceed the maximum duration of 4 weeks and should be organized by the Head of the Department for every student.

6.3.3 At the end of Practical / Industrial Training, Summer Project, the student shall submit an Attendance certificate from the organization where he/she has undergone training and also a brief report. The evaluation for 100 marks will be carried out internally based on this report and a viva-voce Examination will be conducted by a

Departmental Committee constituted by the Head of the Institution. The attendance certificate submitted by the students shall be attached to the mark list sent by the Head of the Institution to the Controller of Examination.

## 7 CLASS ADVISOR / CLASS COORDINATOR

There shall be a class advisor for each class. The class advisor will be one among the (course-instructors) of the class. He / She will be appointed by the Head of the Department concerned. The class advisor is the *ex-officio* member and the Convener of the class committee. The responsibilities for the class advisor shall be:

- To act as the channel of communication between the HOD and the students of the respective class.
- To collect and maintain various statistical details of students.
- To help the chair person 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 the class committee.
- To attend to the students' welfare activities like awards, medals, scholarships and industrial visits.

### Student Counsellor

The HOD / Director will allocate certain number of students to a teacher of the Department, who shall function as student counselor for those students throughout their period of study. The student counselor shall advise the students in registering of courses, authorize the process, monitor their attendance and progress and counsel them periodically. If necessary, the student counselor may also discuss with or inform the parents about the progress / performance of the students concerned.

The responsibilities of the student counselor 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 enrolment 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

## 8 CLASS COMMITTEE

**8.1** A Class Committee consists of teachers of the concerned class, 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 classroom and in the laboratories.
- Clarifying the regulations of the 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 period.
- Informing the student representatives, the details of regulations regarding the weightage used for each assessment. In the case of practical courses (laboratory / project work /seminar etc.)the break up 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 improving the performance of the students.
- Identifying the slow learners, if any, in any specific subject and requesting the teachers concerned to provide some additional help or guidance or coaching to such students as frequently as possible.

**8.2** The class committee for a class under a particular programme is normally constituted by the Head of the Department. However, if the students of different programmes are mixed in a class, the class committee is to be constituted by the Head of the Institution.

**8.3** The class committee shall be constituted within the first week of each semester.

**8.4** At least 2 student representatives (usually 1 boy and 1 girl) shall be included in the class committee.

**8.5** The chair person of the class committee shall invite the Class advisor(s) and the Head of the Department / Director to the meeting of the class committee.

**8.6** The Head of the Institution may participate in any class committee of the institution.

**8.7** The Chair person of the Class Committee is required to prepare the minutes of every meeting, submit the same to the Head of the Institution within two days of the meeting and arrange to circulate among the concerned students and teachers. 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.

**8.8** 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 at suitable intervals. During these meetings the student members, representing the entire class, shall meaningfully interact and express the opinions and suggestions of the class students to improve the effectiveness of the teaching-learning process.

## **9 COURSE COMMITTEE FOR COMMON COURSES**

**9.1** Theory and Practical course handled by more than one teacher shall have a “Course Committee” comprising of all teachers teaching that course. One of the senior teachers shall be nominated as Course Coordinator by the Course Coordination Committee (CCC) duly approved by the Head of the respective department.

**9.2** The Common Course Committee meeting shall be held before fifteen days from the date of commencement of the semester. The nature and weightage of the continuous

assessments shall be decided in the meeting, within the framework of the Regulations. During the meetings, the Program Assessment Committee (PAC) recommendations will be considered to improve the effectiveness of the teaching-learning process.

- 9.3** Wherever feasible, the common course committee shall prepare a common question paper for the continuous assessment tests also. The question paper for the end semester examination is common.

## **10 ATTENDANCE REQUIREMENTS FOR COMPLETION OF A SEMESTER**

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

Ideally every student is expected to attend all classes and earn 100% attendance. However in order to allow provision for certain unavoidable reasons such as prolonged hospitalization / accident / specific illness the student is expected to earn a minimum of 75% attendance to be come eligible to write the End-Semester Examinations.

Therefore, every student shall secure not less than 75% of overall attendance in that semester as per clause 4.3.

- 10.2 However, a student who secures overall attendance between 65% and 74% in that current semester due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in sports events may be permitted to appear for the current semester examinations subject to the condition that the student shall submit the medical certificate / sports participation certificate to the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.
- 10.3 Students who could secure less than 65% overall attendance will not be permitted to write the end-semester examination of that current semester and are not permitted to go to next semester. They are required to repeat the incomplete semester in the next academic year.

## **11 PROCEDURES FOR AWARDING MARKS FOR INTERNAL ASSESSMENT(IA)**

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

### **11.1 THEORY COURSES**

Three assessments each carrying 100 marks shall be conducted during the semester by the Department / College concerned. The total marks obtained in all assessments put together out of 300, shall be proportionately reduced for 40 marks and rounded to the nearest integer (This also implies equal weight age to the three assessments).

**Table 11.1 Assessment of Theory Course**

<b>Assessment I</b>		<b>Assessment II</b>		<b>Assessment III</b>		<b>Total Internal Assessment</b>
Assignment/ Case study/ Seminar/ Mini-Project	Written test	Assignment/ Case study/ Seminar/ Mini-Project	Written test	Assignment/ Case study/ Seminar/ Mini-Project	Written test	
40	60	40	60	40	60	300

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

Three internal assessments will be conducted as a part of continuous assessment. Each internal assessment is to be conducted for 100 marks and will have to be distributed in two parts viz., Individual Assignment/Case study/Seminar/Mini project and Test with each having a weightage of 40% and 60% respectively. The tests shall be in written mode. The total internal assessment marks of 300 shall be converted into a maximum of 40 marks and rounded to the nearest integer.

## 11.2 LABORATORY COURSES

The maximum marks for Internal Assessment shall be 60 in case of practical courses. Every practical exercise/experiment shall be evaluated based on conduct of experiment / exercise and records to be maintained. There shall be at least two tests namely midterm and model exam. The criteria for arriving at the Internal Assessment marks of 60 are as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the laboratory and 25 marks shall be awarded for midterm and model exam. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

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

\* Internal assessment marks shall be converted into 60 marks

## 11.3 THEORY COURSES WITH LABORATORY COMPONENT

If there is a theory course with Laboratory component, there shall be three tests. The first two tests (each 100 marks) will be from theory portions and the third test (maximum 100 marks ) will be for laboratory component. The sum of marks of first two tests shall be arrived to 40 marks and the third test mark shall be arrived to 60 marks.

The weightage of these three assessments shall be converted into 50 marks and rounded to the nearest integer. Procedure for awarding the internal marks is shown in



Table 11.3.b

Assessment I (40% weight age) (Theory Component)		Assessment II (40% weight age) (Theory Component)		Assessment III (60% weight age) (Laboratory Component)		Total Internal Assessment
Individual Assignment /Case Study/ Seminar/Mini Project	Written Test	Individual Assignment /Case Study/ Seminar/Mini Project	Written Test	Evaluation of Laboratory Observation, Record	Test	
60	40	60	40	60	40	

The distribution of marks for the theory and laboratory components in the internal assessments and end semester examination for different types of courses are provided in the Table 11.3.b.

Table 11.3 b. Procedure for awarding the internal marks

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

**Note:** Internal assessment marks shall be converted to 50 marks.

#### 11.4 OTHER EMPLOYABILITY ENHANCEMENT COURSES

- (a) The Seminar/Case study of a course is to be considered as purely INTERNAL (with 100% internal marks only). Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar marks can be equally apportioned. A three member committee appointed by Head of the Institution consisting of course coordinator and two experts from the Department, will evaluate the seminar and at the end of the semester the marks can be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper(40%), presentation(40%) and response to the questions asked during presentation(20%).

- (b) The industrial / Practical shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial / Practical training /Internship / Summer Project, the candidate shall submit an attendance certificate from Organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a viva-voce examination conducted internally by a three member departmental committee constituted by the head of the Institution consisting of a course coordinator and two experts from the department. The certificates shall be attached to the mark list sent by the Head of the Institution.
- (C) For all the courses under Employability Enhancement Courses Category, except the Project Work and communication lab, the evaluation shall be done with 100% internal marks and as per procedure described in a / b.

**d) Assessment for Mini project**

The Mini Project shall carry 100 marks and shall be evaluated through three reviews as continuous assessments as per Table 12.7. The first and second reviews are to be evaluated by a three member internal committee constituted by the HOD / Director, which includes the guide.

At the end of the semester the student shall submit a brief report on the Mini Project. The third review will be conducted based on this report and Viva-Voce Examination conducted jointly by internal and external examiners appointed by COE

**Table 11.1 Assessment of Mini-project**

Continuous Assessment (60 Marks)			End Semester Examination (40 Marks)			
Review 1 (20 Marks)	Review 2 (20 Marks)	Review 3 (20 Marks)	Report Evaluation (20 Marks)		Viva-Voce (20 Marks)	
Review Committee and Guide			External Examiner	Internal Examiner	External Examiner	Internal Examiner
60			10	10	10	10

**(e) Assessment for Internship**

At the end of 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 constituted by the HOD / Director. Certificates (issued by the Organization) submitted by the student shall be attached to the mark list and sent to Controller of Examinations by the Director. Evaluation will be done as per following table

**Table: Assessment of Internship Training**

Internship Training		
Evaluation		
Report	Presentation	Viva Voce
40	40	20

Refer Regulation: One Paragraph should be included

### 11.5 Assessment for Value Added Course

The one/two credit course shall carry 100 marks and shall be evaluated through **continuous assessments only**. Assessments as per the clause 11.1 or 11.2 shall be conducted by the Department concerned. The total marks obtained in the assessments shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior faculty member nominated by the HOD / Director shall do the evaluation process. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations. The grades earned by the students for Value Added Courses will be recorded in the Grade Sheet, however the same shall not be considered for the computation of CGPA.

### 11.6 Assessment for Online courses

Students may be permitted to credit **two or three online courses (which are provided with certificate)**, subject to a maximum of six credits. The online course(s) of 3 credits can be considered instead of one elective course. These online courses shall be chosen from the SWAYAM platform, provided the offering organization conducts regular examination and provides marks.

11.7 Internal marks approved by the Head of the Institution shall be displayed by the Respective HODs within 5days from the last working day. Attendance Record

11.8 Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topics covered), separately for each course. This should be submitted to the Head of the Department / Director periodically (at least three times in a semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the department / Director will put his/her signature and date after due verification. At the end of the semester, the record should be verified by the Head of the institution who will keep this document in safe custody (for five years).The University or any inspection team appointed by the University may inspect the records of attendance and assessments of both current and previous semesters.

### **11.9 Conduct of Academic Audit by every Institution**

Every educational institution shall strive for a better performance of the students by conducting the internal assessments as mentioned in Clause 11.

In order to ensure the above, Academic Audit is to be done for every course taught during the semester. For the internal assessments conducted for each course as per details provided in Clause 11, the academic records shall be maintained in the form of documentation for the individual assignments / case study report / report of mini project submitted by each student and assessment test question paper and answer script. Report of industrial training / internship shall also be maintained, if applicable. For laboratory courses students' record shall be maintained. Further, the attendance of all students shall be maintained as a record.

The Head of the Institution shall arrange to conduct the Academic Audit for every course in a semester by forming the respective committees with an external course expert as one of the members drawn from a Technical institution of repute near the institute.

The University or any inspection team appointed by the University may verify the records of Academic Audit report of the courses of both current and previous semesters, as and when required.

## **12 REQUIREMENTS FOR APPEARING FOR SEMESTER EXAMINATION**

12.1 A student shall normally be permitted to appear for the end semester examinations of the current semester if he/she has satisfied the semester completion requirements as per clause 10.1 & 10.2 and has registered for examination in all courses of the current semester.

12.2 Further, examination registration by a student is mandatory for all the courses in the current semester and all arrear(s) course(s) for the end semester examinations failing which, the student will not be permitted to move to the higher semester.

12.3 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 his/her marks in a course or the aggregate marks/CGPA.

## **13 END SEMESTER EXAMINATIONS**

13.1 There shall be an End-Semester Examination of 3 hours duration in each lecture based course.

The examinations shall ordinarily be conducted between October and December during the odd semesters and between April and June in the even semesters.

For the practical examinations (including project work), internal examiner will be decided by the HOD / Director and external examiner shall be appointed by the Controller of Examination.

**a. WEIGHTAGE**

The following will be the weightage for different courses:

i) Theory courses:		
Internal Assessment	-	40%
End Semester Examination	-	60%
ii) Laboratory courses		
Internal Assessment	-	60%
End Semester Examination	-	40%
iii) Project work		
Internal Assessment	-	60%
Thesis Evaluation	-	10%
Viva-Voce Examination	-	30%
iv) Industrial training/Internship/Practical training / Summer project / Seminar (All Employability Enhancement Courses except Project Work)		
Internal Assessment	-	100%

**14 PASSING REQUIREMENTS**

14.1 A student who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End semester University Examinations] with a minimum of 45% of the marks prescribed for the end-semester University Examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and laboratory courses (including project work).

14.2 If a student fails to secure a pass in a theory course (except electives)/ laboratory courses, the student shall register and appear only for the end semester examination in the subsequent semester. In such case, 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. However, from the third attempt onwards if a student fails to obtain pass marks (IA + End Semester Examination) as per clause 14.1, then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the university end semester examinations alone.

14.3 If the course, in which the student has failed, is a professional elective or an open elective, the student may be permitted to complete the same course. In such case, the internal assessment marks obtained by the candidate in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secures a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (IA + End Semester Examination) as per clause 14.1, then the candidate shall be declared to have passed the examination if he/she secure a minimum of 50% marks prescribed for the end semester examinations alone.

In addition to the above, for MCA programme, students undergoing bridge courses

should complete all the bridge courses prescribed for the two year MCA programme.

- 14.4 If a student is absent during the viva voce examination, it would be considered as fail. If a student fails to secure a pass in project work even after availing clause (6.3), **the student shall register** for the course again.
- 14.5 The passing requirement for the courses which are assessed only through purely internal assessment (EEC courses except project work), is 50% of the internal assessment marks only.
- 14.6 A student can apply for revaluation of his/her semester examination answer paper in a theory course as per the guidelines of COE, 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 EEC courses.

## 15 AWARD OF LETTER GRADES

- 15.1 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:

Letter Grade	Grade Points
O(Outstanding)	10
A+(Excellent)	9
A (Very Good)	8
B +(Good)	7
B (Average)	6
C (Satisfactory)	5
RA(Re-appearance)	0
SA(Shortage of Attendance)	0
W(Withdrawal)	0

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+", "B", "C".

'SA' denotes shortage of attendance (as per clause 10.3) and hence Prevention from writing the end semester examinations. 'SA' will appear only in the result sheet.

"RA" denotes that the student has failed to pass in that course. "W" denotes **withdrawal** from the exam for the particular course. The grades RA and W will figure both in the GradeSheet as well as in the Result Sheet. In both cases, the student has to appear for the End Semester Examinations as per the Regulations.

If the grade RA is given to **Theory Courses/ Laboratory Courses** it is **not required to satisfy the** attendance requirements (vide clause 10), but has to appear for the end semester examination and fulfill the norms specified in clause 14 to earn a pass in the respective courses. If the grade RA is given to **Project work**, the course has to be registered again and attendance requirement (vide clause 10) should be satisfied.

If the grade RA is given to **EEC course (except project work), which are evaluated only through internal assessment**, the student shall register for the course again in the subsequent semester fulfill the norms as specified in Clause 14 to earn pass in the course. However, attendance requirement need not be satisfied.

15.2 The grades O, A+, A, B+, B, C obtained for the one / two credit courses (not part of curriculum) under the title '**Value Added Courses**' and '**internship/industrial training**' (if not part of curriculum) shall figure in the Grade Sheet. For these courses if the grades obtained are RA, SA, it will **not figure in the Grade Sheet**.

15.3 For the MCA students admitted under non-computer-science back ground category, the grades obtained for the prescribed bridge courses will appear on the grade sheet, but will not be considered for GPA/CGPA calculation.

15.4 For the students who complete the Audit Course satisfying attendance requirement, the title of the Audit Course will be mentioned in the Grade Sheet. If the attendance requirement is not satisfied, it will not be shown in the **Grade Sheet**.

### 15.5 GRADESHEET

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

- The college in which the student has studied.
- 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 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 first semester. RA grades will be excluded for calculating GPA and CGPA.

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

Where **C<sub>i</sub>** is the number of credits assigned to the course  
**GP<sub>i</sub>** is the Grade 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.

## 16 ELIGIBILITY FOR THE AWARD OF THE DEGREE

16.1 A student shall be declared to be eligible for the award of the P.G. Degree (M.E./ .and M.C.A.) provided the student has

i. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme with in the stipulated time.

ii. **a . M.E. and M.C.A.**

Successfully completed the course requirements, appeared for the End-Semester examinations and passed all the subjects prescribed in all the 4 semesters within a maximum period of 4 years reckoned from the commencement of the first semester to which the student was admitted. In addition, for the MCA students admitted under non-computer-science background category, the prescribed bridge courses also have to be completed within the maximum duration mentioned above.

**b. M.E. (Part Time)**

Successfully completed the course requirements, appeared for the end semester examinations and passed all the subjects prescribed in all the 6 semesters within a maximum period of 6 years reckoned from the commencement of the first semester to which the student was admitted.

iii). Successfully passed any additional courses prescribed by the Director, Centre for Academic Courses whenever readmitted under regulations R-2021 (vide clause 19.3)

iii. No disciplinary action pending against the student.

iv. The award of Degree must have been approved by the Syndicate of the University.

## 17 CLASSIFICATION OF THE DEGREE AWARDED

### 17.1 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. and M.C.A (Full Time)**

- 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.

#### **M.E. (Part Time)**

- Should have passed the examination in all the courses of all the four semesters in the student's First Appearance within **four** 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.

### **17.2 FIRST CLASS:**

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

#### **M.E. and M.C.A (Full Time)**

- 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**.

#### **M.E. (Part Time)**

- Should have passed the examination in all the courses of all four semesters **within four 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).

### **17.3 SECOND CLASS:**

All other students (not covered in clauses 17.1 and 17.2) who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in **Second Class**.

- 17.4** A student 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 (except approved withdrawal from end semester examinations as per clause 18) for the purpose of classification.

### **17.5 Photocopy/Revaluation**

A student can apply for photocopy of his/her semester examination answer paper in a theory course, as per the guidelines of COE 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 student 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 student concerned through the Head of the Institution. Revaluation is not permitted for practical courses and for EEC courses.

A student can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

### **17.6 Review**

Students not satisfied with Revaluation can apply for Review of his/ her examination

answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to Controller of Examinations through the Head of the Institution.

Students applying for Revaluation only are eligible to apply for Review.

### **18 PROVISION FOR WITHDRAWAL FROM EXAMINATION:**

- 18.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Head of the Institution) 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 COE through the Head of the Institution with required documents.
- 18.2 Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 10) and if it is made within TEN days after the date of the examination(s) in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations. For a student to withdraw from a course / courses, he/she should have registered for the course, fulfilled the attendance requirements (vide clause10) and earned continuous assessment marks.
- 18.3 Notwithstanding the requirement of mandatory 10 days notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 18.4 In case of withdrawal from a course / courses, it will figure both in Marks Sheet as well as in Result Sheet. However, withdrawal shall not be considered as an appearance for the eligibility of a student for First Class with Distinction.
- 18.5 If a student withdraws from writing end semester examinations for a course or courses, he/she shall register for the same in the subsequent semester and write the end semester examination(s).
- 18.4** If a student applies for withdrawal from Project work, he/she will be permitted for the withdrawal only after the submission of project report before the deadline. However, the student may appear for the viva voce examination within 30/60 days after the declaration of results for Project Work and II respectively and the same is not considered as reappearance.
- 18.5** Withdrawal is permitted for the end semester examinations in the final semester, as per clause 17.1.

### **19 AUTHORIZED BREAK OF STUDY FROM A PROGRAMME**

19.1 A student is permitted to avail authorised break of study for a maximum period of one year in a single spell.

19.2 Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extra ordinary situation the student may apply for additional break of study not exceeding another one year. If a student intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Chair person, Academic Council in advance, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Institution stating the reasons therefore and the probable date of rejoining the programme.

- 19.3** 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. The students rejoining in new regulations shall register for additional courses, if any, as notified by the Chair person, Academic Council under change of regulations. These courses may be from any of the semesters of the curriculum in force, so as to bridge the curriculum in force and the old curriculum. In such cases, the total number of credits to be earned by the student may be more than or equal to the total number of credits prescribed in the curriculum in force.
- 19.4** The authorized break of study of maximum of one year is included in the duration specified for passing all the courses for the purpose of classification (vide Clause 17.1).
- 19.5** The total period for completion of the Programme reckoned from, the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 4.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.
- 19.6** If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 19.1).
- 19.7** If a student in Full Time mode wants to take up job / start-up / entrepreneurship during the period of study he/she shall apply for authorized break of study for one year. The student shall undertake the job / start-up / entrepreneurship only after getting approval of the same by The Chair person, Academic Council with due proof to that effect.
- 19.8** No fee is applicable to students during the Break of Study period.

## **20 DISCIPLINE**

**20.1** Every student is required to observe disciplined and decorous behavior both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the Institution and the University. The Head of Institution shall constitute a disciplinary committee consisting of Two Heads of Department / Director of which one should be from the faculty of the student, to enquire into the acts of indiscipline and notify about the disciplinary action recommended for approval. In case of any serious disciplinary action which leads to suspension or dismissal, then a special committee shall be constituted by the Head of the Institution for taking the final decision and the same be communicated to the Anna University.

**20.2** If a student indulges in malpractice in any of the End Semester / internal examinations he / she shall be liable for punitive action as prescribed by the Institution from time to time

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

The College may from time to time ----- revise, amend or change the Regulations, Curriculum, Syllabus and scheme of examinations through the Head of the Institution with the approval of the Academic Council of the Institution.