

## **UG - REGULATIONS – 2019**

**(Amendments incorporated 28<sup>th</sup> December 2020)**

<b>UG REGULATIONS – 2019 (CBCS)</b>
<b>Amendments incorporated - 28<sup>th</sup> December 2020</b>
<b>Approved by Standing Committee - 13<sup>th</sup> February 2019</b>

Action	Responsibility	Signature of Authorized Signatory
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**UG REGULATIONS – 2019  
(CBCS)**

**Dr. Mahalingam College of Engineering and Technology, Pollachi-03**

**(An Autonomous Institution - Affiliated to Anna University, Chennai)**

**UG REGULATIONS 2019 - CHOICE BASED CREDIT SYSTEM**

**DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY**

**(Amendments incorporated on 28<sup>th</sup> December 2020)**

**Existing clause:**

**4. STRUCTURE OF THE PROGRAMMES**

**4.1 viii Mandatory Non-credit Courses (MNC)** includes Induction Programme, Environmental Sciences, Indian Constitution and Essence of Indian Traditional Knowledge.

**Revised clause:**

**4. STRUCTURE OF THE PROGRAMMES**

**4.1 viii Mandatory Non-credit Courses (MNC)** includes Induction Programme and Environmental Sciences.

**Existing clause:**

**4.6 One Credit Courses**

Every student shall opt for minimum of three 'one credit' courses. One credit courses shall be offered for a minimum of 15 lecture hours / 30 practical hours duration in a semester. This course will be delivered by faculty members of MCET, experts from industries and R&D establishments. A student will also be permitted to register for the one credit courses of other departments provided the student has fulfilled the necessary pre-requisites of the course being offered, subject to approval by both the Heads of the Departments. Students shall complete such one credit courses during the semesters III to V, as and when these courses are offered by different departments.

**Revised clause:**

**4.6 One Credit Courses**

Every student shall opt for minimum of two 'one credit' courses. One credit courses shall be offered for a minimum of 15 lecture hours / 30 practical hours duration in a semester. This course will be delivered by faculty members of MCET, experts from industries and R&D establishments. A student will also be permitted to register for the one credit courses of other departments provided the student has fulfilled the necessary pre-requisites of the course being offered, subject to approval by both the Heads of the Departments. Students shall complete such one credit courses during the semesters III to IV, as and when these courses are offered by different departments.

**Existing clause:**

**4.11 Online Course**

The student can opt for ONE online course during the entire programme, in place of a Professional Elective course in Semesters V / VI, with the approval of the Principal through the Head of the Department provided the student does not have standing arrears and possesses a CGPA of 7.5 and above. The approved list of online courses (preferably from SWAYAM/NPTEL) will be published every semester by the Principal. A committee constituted in the respective department shall monitor the progress of the student and recommend Continuous Assessment marks based on the performance in the online course. The student may be exempted from undergoing one Professional Elective only after successful completion of the online course and submission of the certificate. Based on the marks obtained in the online certification exam an equivalent grade will be awarded. If the student does not clear the online certification exam within semester VI, he/she has to register and complete a Professional elective course during semester VII in regular mode.

**Revised clause:**

**4.11 Online Course**

Students should undergo TWO online courses in NPTEL/SWAYAM, during the fifth semester and sixth semester period, relevant to their programme. Chosen courses have to be approved by head of the institution through head of department. Based on the recommendation by the team of faculty members nominated by the head of the department, the student will be awarded grades equivalent to the marks obtained by the student in the online certification examination.

**Existing clause:**

**4.13 Mandatory Non-Credit courses**

Student has to complete FOUR Mandatory Non-credit Courses prescribed in the Curriculum to fulfil the degree requirements. Continuous Assessment will be followed for these courses and these courses will not be considered for the SGPA / CGPA calculations.

**Revised clause:**

**4.13 Mandatory Non-Credit courses**

Student has to complete TWO Mandatory Non-credit Courses prescribed in the Curriculum to fulfil the degree requirements. Continuous Assessment will be followed for these courses and these courses will not be considered for the SGPA / CGPA calculations.

**Existing clause:**

**7. REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION**

7.1. a) Ideally, every student is expected to attend all periods and earn 100% attendance. However, the student shall secure not less than 75% in Overall attendance. Overall attendance will be calculated by considering all the courses in the curriculum.

$$\text{Percentage of Overall attendance in a semester} = \frac{\text{Total number of periods attended in all the courses of a semester}}{\text{Total number of periods prescribed in the curriculum for all the courses in that semester}} \times 100$$

7.1. b) Student is expected to earn 100% attendance in all courses. However, the student shall secure not less than 75% attendance in each course. Course wise attendance will be calculated as given below:

$$\text{Percentage of Course-wise attendance} = \frac{\text{Total number of periods attended in a course}}{\text{Total number of periods prescribed in the curriculum for that course}} \times 100$$

**Revised clause:**

**7. REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION**

7.1. Ideally, every student is expected to attend all periods and earn 100% attendance. However, the student shall secure not less than **75% attendance** which will be calculated by considering all the courses in the curriculum.

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

# **Dr. Mahalingam College of Engineering and Technology, Pollachi-03**

**(An Autonomous Institution - Affiliated to Anna University, Chennai)**

**UG REGULATIONS 2019 - CHOICE BASED CREDIT SYSTEM**

**DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY**

**The following regulations are applicable to all the UG programmes offered by Dr. Mahalingam College of Engineering and Technology, Pollachi, affiliated to Anna University, Chennai with effect from the academic year 2019-20.**

## **1. PRELIMINARY DEFINITIONS AND NOMENCLATURE**

In these Regulations,

- I. "MCET" is the abbreviation for Dr.Mahalingam College of Engineering and Technology, Pollachi and wherever the term college is used, it implies MCET.
- II. "Programme" means Degree Programmes such as B.E./B.Tech.
- III. "Branch" means specialization or discipline of B.E./B.Tech. Degree Programmes, such as Civil Engineering, Mechanical Engineering, Information Technology, etc.
- IV. "Course" means a theory or practical subject that is normally studied in a semester under a particular B.E/B.Tech Programme.
- V. "Principal" is the Head of the Institution who is responsible for all the academic activities of the institution and the implementation of relevant rules of these Regulations.
- VI. "University" refers to Anna University, Chennai.

## **2. ADMISSION**

Students seeking admission to the first semester of B.E / B.Tech degree programme as well as lateral entry students seeking admission to the third semester of B.E/B.Tech degree programme will be admitted as per the norms prescribed by AICTE and Directorate of Technical Education, Chennai, from time to time.

## **3. PROGRAMMES OFFERED**

A student may be offered any one of the branches of study approved by the university and offered by the college. Branches offered by the college under two different programmes are mentioned below.

## **B.E. Programmes**

1. Automobile Engineering (AU)
2. Civil Engineering (CE)
3. Computer Science and Engineering (CS)
4. Electrical and Electronics Engineering (EE)
5. Electronics and Communication Engineering (EC)
6. Electronics and Instrumentation Engineering (EI)
7. Mechanical Engineering (ME)
8. Mechatronics Engineering (MC)

## **B.Tech. Programme**

9. Information Technology (IT)

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

- 4.1 Every B.E. / B. Tech. programme will have a curriculum with syllabi consisting of various courses as decided by the respective Board of Studies that shall be categorized as follows:
- i. **Humanities and Social Sciences (HS)** courses include Communication skills, Project Management & Finance etc.
  - ii. **Basic Sciences (BS)** courses include Mathematics, Physics and Chemistry.
  - iii. **Engineering Sciences (ES)** courses include Engineering Drawing, Introduction to Engineering, C Programming, Engineering practices Lab, etc.
  - iv. **Professional Core (PC)** courses include core courses relevant to the chosen specialization / programme.
  - v. **Professional Elective (PE)** courses include elective courses relevant to the chosen specialization / programme.
  - vi. **Open Elective (OE)** courses include courses which a student can choose from the curriculum of other B.E. / B. Tech. programmes.
  - vii. **Employability Enhancement Courses (EEC)** include Professional Skills (PS) Courses, One Credit Courses (OCC), Project Work, Internship, Skill Development Courses, etc.
  - viii. **Mandatory Non-credit Courses (MNC)** includes Induction Programme and Environmental Sciences.

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

Contact period per week	Credits
1 Lecture period	1
1 Tutorial period	1
2 Practical periods (Lab/ Seminar/ Project work, etc)	1

4.3 In each semester, the curriculum will normally have a blend of theory courses not exceeding SIX and practical courses not exceeding FOUR.

4.4 For the award of the degree, a student has to earn a minimum number of credits as specified in the curriculum of the relevant programme which is in the range of 160 to 170 credits.

#### 4.5 **Project**

Every student is required to undertake project work as indicated in the curriculum of the respective programme in Industry / department in consultation with the Head of the Department and the faculty guide. For Industry project, an expert from the respective Industry will act as co-guide. The list of project guides and co-guides will be prepared by the Head of the Department and approved by the Principal. The student must submit the project report in the prescribed format on the dates announced by the college/department to fulfill the requirements for the award of the degree. Project work may be allotted to a single student or to a group of students (maximum of three students). Interdisciplinary projects in engineering disciplines are encouraged.

#### 4.6 **One Credit Courses**

Every student shall opt for minimum of two 'one credit' courses. One credit courses shall be offered for a minimum of 15 lecture hours / 30 practical hours duration in a semester. This course will be delivered by faculty members of MCET, experts from industries and R&D establishments. A student will also be permitted to register for the one credit courses of other departments provided the student has fulfilled the necessary pre-requisites of the course being offered, subject to approval by both the Heads of the Departments. Students shall complete such one credit courses during the semesters III to IV, as and when these courses are offered by different departments.

#### 4.7 **Professional Skill Courses**

Professional Skill courses will be offered to all students from Semesters I to VI. Each course will be conducted for 30 periods and will carry 1 credit each.

#### 4.8 Internship / Skill Development Courses

- Students shall undergo Internship / skill development training by following the 2 –2/4 – 8 /16 weeks scheme.
- Student should undergo 2 weeks of internship during IV semester vacation. However, he/she can undergo the internship during V semester instead of IV semester after obtaining prior approval from the Principal through the Head of the Department. This 2 weeks internship will be given 1 credit in the VI semester grade sheet.
- Student can complete 2 weeks of employability skill training offered by Career Planning and Guidance (CPG) or 2 to 4 weeks of internship at industries during VI semester vacation. This internship/employability skill training will be given 1 credit in the VII semester grade sheet.
- Students can undergo 8 to 16 weeks of internship during VIII semester. Eighth semester internship/skill development training will carry 4 credits.
- Students not opting for Internship either in VI semester vacation or in VIII semester must obtain prior approval from the Principal through the Head of the Department and shall undergo one or more Skill Development training offered by Centre of Excellences (COEs) / Departments / Career Planning and Guidance (CPG) / Centre for Innovation Business Incubation and Entrepreneurship (CIBIE) during VI semester vacation and VIII semester.
- Skill development training may include training at COEs, Training provided by department, Employability skills training through CPG and Entrepreneurship development through CIBIE.
- Students opting for placement shall undergo internship. However, students not eligible and not opting for placement with proper approval can undergo skill development training instead of internship.
- The 12 weeks of internship / skill development will be awarded 6 credits at the rate of one credit for two weeks of internship / skill development. These credits shall be distributed in VI, VII and VIII semester grade sheets as follows:

<b>Period for undergoing Internship/ Skill development Training</b>	<b>Credits for Internship/ Skill development Training</b>
IV or V semester vacation	1 credit in VI semester
VI semester vacation	1 credit in VII semester
VIII semester	4 credits in VIII semester

- The credits will be awarded based on evaluation of internship / Skill development training report submitted by the student and Viva Voce performance.

#### **4.9 Industrial Visit**

Every student is expected to go for at least one Industrial visit every year during the duration of the Programme.

#### **4.11 Online Course**

Students should undergo TWO online courses in NPTEL/SWAYAM, during the fifth semester and sixth semester period, relevant to their programme. Chosen courses have to be approved by head of the institution through head of department. Based on the recommendation by the team of faculty members nominated by the head of the department, the student will be awarded grades equivalent to the marks obtained by the student in the online certification examination.

#### **4.12 Industry driven courses**

In order to train the students in various domains, the identified elective courses will be supported by industry, meeting the requirements of the statutory bodies and the recommendation of the respective Board of Studies.

#### **4.13 Mandatory Non-Credit courses**

Student has to complete TWO Mandatory Non-credit Courses prescribed in the Curriculum to fulfil the degree requirements. Continuous Assessment will be followed for these courses and these courses will not be considered for the SGPA / CGPA calculations.

#### **4.14 Personality and Character Development**

All students are required to enroll in any one of the personality and character development activities (NCC / NSS / YRC / Sports and Games) and undergo the training for 40 hours during the first year.

National Cadet Corps (NCC) will have a number of parades/camps specified by the NCC officer.

National Service Scheme (NSS) will have social service activities in and around the college.

Youth Red Cross (YRC) society activity will include peace time activity like health and hygiene, international friendship, awareness camps etc.,

Sports and Games activity will include preparation for inter-college sports events.

The training activities will be normally held during the weekends, while the camps will be during the vacation period.

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

## **5. COURSE ENROLLMENT AND REGISTRATION**

5.1 Each student, on admission shall be assigned to a Class Coordinator (vide clause 8) who shall advise and 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 A course shall be offered by a department only if a minimum of ten students register for that course. Special permission has to be obtained from the Principal to offer a course for less than ten students.

5.3 After registering for a course, the student shall attend the classes, satisfy the attendance requirements, earn Continuous Assessment marks and appear for the End Semester Examinations.

5.3.1 The enrollment and registration for all the courses of Semester I and II are compulsory.

5.3.2 The enrollment for the course(s) of the Semesters III to VIII will commence ten working days prior to the last working day of the preceding semester. The student shall enroll for the courses with the guidance of the student's Class Coordinator.

5.3.3 However, the student shall confirm the enrollment by registering the courses. If the student wishes, he/she may drop or add courses (vide clause 5.4) within ten working days after the commencement of the semester concerned and complete the registration process duly authorized by the Head of the Department.

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

5.4.1 A student has to earn a minimum total number of credits as specified in the curriculum of the relevant programme. However, if the student wishes, he/she is permitted to earn more than the total number of credits prescribed in the curriculum of the student's programme.

5.4.2 From III to VII semesters, the student has the option of registering additional courses (after meeting the pre-requisite if any, provided the student has a minimum CGPA of 7.5) or dropping existing courses (except Project work, PS and OCC) with due approval from the Principal through the Head of the Department. Total number of credits of such courses cannot exceed 8 per semester.

### **5.5 Registration for Re-appearance Examination**

5.5.1 If a student does not meet the passing requirements in a course, the student can register for reappearance for that course in the subsequent semesters.

5.5.2 If the course, in which the student does not meet the passing requirements is a professional elective or open elective or One Credit Course, the student may register for the same or any other professional elective or open elective or One Credit course respectively in the subsequent semesters. In case the student registers for a new course, the student has to fulfill the attendance requirements (vide Clause 7) and earn Continuous Assessment marks.

## 6. DURATION OF THE PROGRAMME

- 6.1 A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (four academic years) but in any case not more than 14 Semesters for HSC (or equivalent) students and not more than 12 semesters for lateral entry students.
- 6.2 Each semester shall normally consist of 90 working days including test and examination days. Every programme shall conduct a minimum of 540 periods during every semester. Every teacher is expected to impart instruction as per the number of periods / hours specified in the syllabus.
- 6.3 The total period for completion of the programme reckoned from the commencement of the first year to which the student was admitted shall not exceed the maximum period specified in clause 6.1 irrespective of the period of break of study (vide clause 17) in order to be eligible for the award of the degree (vide clause 14).

## 7. REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION

- 7.1. Ideally, every student is expected to attend all periods and earn 100% attendance. However, the student shall secure not less than **75% attendance** which will be calculated by considering all the courses in the curriculum.

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

- 7.2 If a student secures overall attendance between 65% and 75% in a semester due to medical reasons (hospitalization / accident / specific illness) or due to participation in the College / University / State / National / International level Sports events with prior permission from the Principal, the student may be permitted to appear for the semester examinations subject to the condition that the student submits the medical certificate / sports participation certificate to the Principal. The same shall be forwarded to the Controller of Examinations.
- 7.3 Students who secure less than 65% overall attendance (vide Clause 7.1 and 7.2) shall not be permitted to appear for the end semester examination and shall not be permitted to move to the next semester. He/she is required to repeat the incomplete semester in the next academic year as per the readmission norms of the affiliating University and Directorate of Technical Education.
- 7.4 A student shall normally be permitted to appear for the end semester examination of the course, if the student has satisfied the attendance requirements (vide Clause 7.1 – 7.3) and registered for examination in those courses of that semester by paying the prescribed fee.
- 7.5 Students who do not satisfy the course-wise attendance requirement (vide clause 7.1) will not be permitted to write that particular course in End-Semester Examinations. The student has to reregister those course(s) in the subsequent semesters and fulfil the attendance requirement as per norms.
- 7.6 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 letter grades.

## **8 CLASS COORDINATOR AND MENTOR**

### **8.1 CLASS COORDINATOR**

To help the students in planning their courses of study and for general advice on the academic programme, the Head of the Department will nominate a faculty member to each class, who shall function as Class Coordinator.

Responsibilities of the Class Coordinator shall be:

- To act as the channel of communication between the Head of the Department and the students of the respective class.
- To collect and maintain various statistical details of the students.
- To help the chairperson of the class committee in planning and conducting class committee meetings.
- To coordinate the students' scholarships, awards, medals, and industrial visits.

## 8.2 MENTOR

In order to facilitate the students' progress and welfare, the Head of the Department will allocate maximum of 20 students to a faculty member of the department, who shall function as Mentor for them throughout their period of study. The responsibilities of the mentor include:

- Maintaining the records of each of his/her mentees, which shall contain information about the students' attendance, grades obtained in the End Semester Examinations, marks of Continuous Comprehensive Evaluation Test (CCET), achievements if any in Curricular, Co-curricular and Extra-curricular activities and disciplinary proceedings if any.
- Recommending the students leave request to the Head of the Department for approval. The mentor will maintain the students leave records.
- Guiding the students in course registration, monitor their academic performance and counsel them periodically.
- Discussing with the parents about the progress of the student concerned in both academic and disciplinary issues.
- Organizing the parents meeting in consultation with the class coordinator and Head of the Department.

## 9 COURSE COMMITTEE

Theory and practical courses offered to more than one discipline or section, shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as Course Coordinator. The nomination of the Course Coordinator shall be made by the Head of the Department / the Principal depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The 'Course committee' shall meet in order to arrive at the design, delivery and assessments of the course, across the sections / discipline. The committee shall also ensure a uniform evaluation of the tests. Wherever feasible, the course committee may also prepare a common question paper for the Continuous Assessment test(s).

## 10 CLASS COMMITTEE

10.1 Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson who does not teach the class. The overall goal of the class committee is to improve the teaching-learning process. The functions of the class committee include:

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

- Clarifying the regulations of the degree programme and the details of the rules therein.
- Informing the student representatives about the academic schedule including the dates of assessments and the syllabus portion for each assessment.
- Informing the student representatives about the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / project work etc.) the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.
- Analyzing the performance of the students after each test and finding remedial measures, if any.
- Identifying the slow learners, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such slow learners.

10.2 The class committee for a class under a particular programme is normally constituted by the Head of the Department within the first week of each semester.

10.3 At least FOUR student representatives (both boys and girls) shall be included in the class committee.

10.4 The Chairperson of the class committee may invite the Class Coordinator and the Head of the Department to the class committee meeting.

10.5 The Principal may participate in any class committee meeting of the institution.

10.6 The chairperson is required to prepare the minutes of every meeting, submit the same to the Principal within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are any points in the minutes requiring action by the management, the same shall be brought to the notice of the Management by the Principal.

10.7 The first meeting of the class committee shall be held within one week from the date of commencement of the semester. Two or three subsequent meetings may be held in a semester at suitable intervals. The Class Committee Chairperson shall display on the Notice Board the cumulative attendance particulars of each student at the end of every such meeting to enable the students to know their attendance details to satisfy clause 7 of this Regulation. During these meetings, the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

## **11 SYSTEM OF EVALUATION**

11.1 Performance in each course of study shall be evaluated based on Continuous Assessment (CA) and End Semester Examination (ESE).

11.2 Each course, both theory and practical (other than project work) shall be evaluated for a maximum of 100 marks. Project work shall be evaluated for a maximum of 200 marks.

11.3 Marks shall be awarded as per the distribution given below:

S. No.	Type of Course	Continuous Assessment weightage (CA)	End-Semester Examination weightage (ESE)
i.	Theory Courses	40 %	60 %
ii.	Practical Courses, Project work, OCC, Internship / Skill Development, Professional Skill courses	75 %	25 %

11.4 The End Semester examination will normally be for 3 hours duration and will usually be conducted between October and December for the odd semesters and between April and June for the even semesters.

11.5 For practical courses, two Cycle tests will be conducted in the internal mode for 50 marks each. The average marks of the two cycle tests will be considered for 25 marks.

11.6 The End Semester Examination for Mini-Project, Innovative and Creative project shall consist of the evaluation of the final report and viva-voce conducted by the Internal Examiner appointed by the Head of the Department.

11.7 The examination for the project work shall consist of the evaluation of the final report and viva-voce conducted individually for each student by the external examiner and internal examiner.

11.8 For OCC and PS courses, a final examination for 25 marks shall be conducted at the end of the semester by a panel of internal examiners appointed by the Head of the Department.

11.9 For Internship / Skill Development courses, a Viva-Voce examination will be conducted for 25 marks by a panel of internal examiners appointed by the Head of the Department.

11.10 The other courses which do not fall under the courses specified in clause 11.3 will have suitable system of evaluation recommended by the respective Board of Studies.

## **12 PROCEDURE FOR AWARDING MARKS FOR CONTINUOUS ASSESSMENT**

### **12.1 Theory courses (40 marks)**

- Three tests conducted for 50 marks each and averaged to 30 marks
- Three Tutorials / Quiz / Assignments conducted for 10 marks each and averaged to 10 marks

### **12.2 Theory courses with Practical component (40 marks)**

- Three tests conducted for 50 marks each and averaged to 20 marks

- Continuous assessment of Practical Component (vide Clause 12.3) averaged for 10 marks
- Final assessment of Practical Component for 10 marks. The Final Assessment will be conducted during last lecture week for 50 marks and reduced to 10 marks.

### 12.3 **Practical courses (75 marks)**

Continuous assessment marks will be awarded by considering the performance of the student in all the experiments. Each experiment shall be assessed for 75 marks as follows:

- |                          |   |          |
|--------------------------|---|----------|
| • Preparation            | – | 20 marks |
| • Observation and Result | – | 25 marks |
| • Viva                   | – | 10 marks |
| • Record work            | – | 20 marks |

### 12.4 **Mini-Project, Innovative and Creative Project (75 marks)**

Three reviews of 25 marks each shall be conducted by the respective guide and the project review committee constituted by the Head of the Department.

### 12.5 **Project work (150 marks)**

Three reviews of 50 marks each shall be conducted by the respective guide and the project review committee constituted by the Head of the Department. Rubrics for Evaluation shall be recommended by the respective Board of Studies.

### 12.6 **One Credit courses (75 marks)**

Continuous assessment marks shall be awarded based on Quiz / Assignment / Test / Mini project / Case study / Simulation / Modeling / Assembly / Viva Voce etc. The assessment scheme followed for each course will be recommended by the respective Board of Studies.

### 12.7 **Professional Skill courses (75 marks)**

Continuous Assessment marks shall be awarded based on evaluation of student journal and workbook / Exercises / Meditation / Test / Knowledge Test / Scenario based Knowledge Test / Viva Voce etc. The assessment scheme followed for each course will be recommended by the respective Board of Studies.

## 12.8 **Internship / Skill Development courses (75 marks)**

### **Internship**

Evaluation of Report	-	50 marks
Evaluation by the Guide / Review Committee	-	25 marks

### **Skill Development courses**

Performance test will be conducted by the Departments	-	75 marks
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## 12.9 **Mandatory Non-Credit courses (100 marks)**

Continuous Assessment marks shall be awarded based on evaluation of Student workbook / Test / Field-visit report / Quiz / Case Study / Mini Project / Seminar etc. The assessment scheme followed for each course will be recommended by the respective Board of Studies.

## 13 **PASSING REQUIREMENTS**

- 13.1 A student who secures not less than 50% of total marks (Continuous assessment and End Semester Examination marks put together) and a minimum of 50% marks in the End Semester Examinations shall be declared to have successfully passed the course.
- 13.2 If a student does not secure a pass in a particular course, it is mandatory that the student should register and reappear for the examination in that course during subsequent semesters; the student should continue to register and reappear for the examination till he / she secures a pass. Students are encouraged to attend remedial classes organized by the department.
- 13.3 The Continuous Assessment marks obtained by the student in the first appearance shall be retained and considered valid only for THREE attempts. For further attempts, the student should secure minimum 50 marks exclusively from the End Semester Examinations conducted for 100 marks for passing the course.

## 14 **AWARD OF LETTER GRADES**

All assessments of a course will be done on absolute grading system. However, for the purpose of reporting the performance of a student, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the student in each course as detailed below (over and above fulfilling Clause 13):

Letter Grade	Grade Points	Range of Total Marks
<b>O (Outstanding)</b>	<b>10</b>	<b>91-100</b>
<b>A + (Excellent)</b>	<b>9</b>	<b>81-90</b>
<b>A (Very Good)</b>	<b>8</b>	<b>71-80</b>
<b>B + (Good)</b>	<b>7</b>	<b>61-70</b>
<b>B (Average)</b>	<b>6</b>	<b>50-60</b>
<b>RA (Reappearance)</b>	<b>0</b>	<b>0-49</b>
<b>SA (Shortage of Attendance)</b>	<b>0</b>	<b>-</b>
<b>W (Withdrawal)</b>	<b>0</b>	<b>-</b>

- 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**”.
- “**SA**” denotes shortage of attendance (as per clause 7) and hence prevention from writing the end semester examinations. “**SA**” will appear only in the provisional result sheet.
- “**RA**” denotes that the student has not met the passing requirements (Clause 13) in that course. “**W**” denotes withdrawal from the exam for the particular course. The grades “**RA**” and “**W**” will figure both in Grade Sheet as well as in provisional result sheet.

14.1 For the Co-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS) / Youth Red Cross (YRC) / Sports and Games, non-letter grades, GOOD/AVERAGE/FAIR shall be awarded and will appear in the grade sheet. Every student shall put in a minimum of 75% attendance in the training and attend the camp compulsorily. The training and camp shall be completed during the first year of the programme. However, for valid reasons, the Principal may permit a student to complete this requirement in the second year.

14.2 For the Mandatory non-credit courses, non-letter grades, GOOD/AVERAGE/FAIR shall be awarded and will appear in the grade sheet.

14.3 The following procedure is used to compute the Grade Point Average (GPA) for a semester and Cumulative Grade Point Average (CGPA):

Grade Point Average (GPA) for a semester is the ratio of the sum of the product of the number of credits of courses registered and the points corresponding to the grades scored in those courses, taken for all courses, to the sum of the number of credits of all the courses in the semester.

Cumulative Grade Point Average (CGPA) will be calculated in a similar manner, considering all the courses registered from first semester. Courses with “RA” and “W” grades will be excluded for calculating GPA and CGPA.

#### **FORMULAE FOR GPA & CGPA**

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

where,

$C_i$  - Credit assigned to the Course

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

$\Sigma_i$  - sum for all courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.

n- Total number of courses for the entire programme.

#### **FORMULA FOR CALCULATING PERCENTAGE**

$CGPA \times 10 = \% \text{ OF MARKS}$
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#### **14.4 Issue of Grade sheet**

The grade sheet will be issued every semester after the publication of results and a consolidated grade sheet will be issued after successful completion of all the courses to be eligible for the award of degree. Transcripts will also be issued based on request.

#### **14.5 Photocopy / Revaluation**

A student can apply for photocopy of his/her end semester examination answer script in a theory course within 2 weeks from the declaration of results by paying the prescribed fee through proper application to the Controller of Examinations. The student can apply for revaluation after reviewing the photocopy of the answer script, if required. The Controller of Examinations will arrange for the revaluation and the results will be published with the approval of the Principal. Revaluation is not permitted for practical courses (including OCC, PS) and project work.

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

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

- \* Successfully gained the required minimum number of total credits as specified in the curriculum corresponding to his / her programme within the stipulated time.
- \* Successfully completed the course requirements, appeared for the end semester examinations and passed all the courses prescribed in all the eight semesters within a maximum period of seven years (six years in the case of lateral entry) from the commencement of the first (third in the case of lateral entry) semester to which the student was admitted.
- \* Successfully passed any additional courses prescribed by the Course Equivalency Committee constituted by the Principal whenever re-admitted under any other regulations.
- \* Successfully completed Mandatory Non Credit courses, NCC / NSS / YRC / Sports and Games requirements.
- \* No disciplinary action is pending against him / her.

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

### **16.1 FIRST CLASS WITH DISTINCTION**

A student who satisfies the following conditions shall be declared to have qualified for the award of degree with the classification, First class with Distinction.

- Should have passed the examination in all the courses of all the 8 semesters (6 semesters in the case of Lateral Entry) in the student's First Appearance within 5 years (4 years in the case of Lateral Entry). Withdrawal from examination (vide Clause 17) will not be considered as an appearance.
- Should have secured a CGPA of not less than 8.50
- One year authorized break of study (if availed) is included in the 5 years in the case of regular and 4 years in the case of lateral entry for award of First Class with Distinction.
- Should NOT have been prevented from writing end semester examination due to lack of attendance in any semester/course.

### **16.2 FIRST CLASS**

A student who satisfies the following conditions shall be declared to have qualified for the award of degree with the classification, First class

- Should have passed the examination in all the courses of all the 8 semesters (6 semesters in the case of Lateral Entry) within 6 years (5 years in the case of Lateral Entry).
  - One year authorized break of study (if availed) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of 6 years for regular students and 5 years in the case of lateral entry students for award of First Class.
  - Should have secured a CGPA of not less than 7.00
- 16.3 All other students (not covered in clauses 16.1 and 16.2) who qualify for the award of the degree (vide Clause 15) shall be declared to have passed the examination in **Second Class**.
- 16.4 A student who is absent in semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification.(Subject to clause 17 and 18).

## **17 PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION**

- 17.1 A student for valid reasons (Medically unfit/unexpected family situations/Sports approved by Physical Director and Principal) and on prior application, may be granted permission to withdraw from appearing for the examination of any one course or consecutive examinations of more than one course in a semester examination.
- 17.2 Such withdrawal shall be permitted only once during the entire period of study of the degree programme.
- 17.3 Withdrawal is valid only if the student satisfies the attendance requirement (vide Clause 7) Application for withdrawal must be submitted before the last working day and recommended by the Head of the Department. It should be approved by the Principal.
- 17.3.1 Notwithstanding the requirement of mandatory last working day notice, applications for withdrawal under extraordinary conditions will be considered based on the merit of the case.
- 17.4 Withdrawal shall not be construed as an appearance for the eligibility of a student to pass in First Class with Distinction.
- 17.5 Withdrawal is permitted for the end semester examination in the final semester, only if the period of study of the student concerned does not exceed 5 years as per Clause :16.1
- 17.6 Withdrawal from the End semester examination for the course(s) registered under re- appearance will not be permitted.

## **18 PROVISION FOR AUTHORISED BREAK OF STUDY**

- 18.1 A student is permitted to go on break of study for a maximum period of one year as a single spell.
- 18.2 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 extraordinary situation the student may apply for additional break of study not exceeding another one year by paying prescribed fee for break of study. 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 the student applies in advance to the Principal, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Department stating the reasons therefore and the probable date of rejoining the programme.
- 18.3 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 apply to the Principal through the Head of the Department at the beginning of the readmitted semester and the Course Equivalency committee shall prescribe additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.
- 18.4 The authorized break of study would not be counted towards the duration specified for passing all the courses for the purpose of classification (vide Clause 16.1).
- 18.5 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 6.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.
- 18.6 If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1)

## **19 DISCIPLINE**

Every student is required to observe discipline 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 college. The Principal shall constitute a disciplinary committee consisting of the Principal or his nominee, two Heads of the Departments, of which one should be from the faculty of the student, to enquire into acts of indiscipline and notify the Management of the College about the disciplinary action recommended for approval.

If a student indulges in malpractice in any of the End Semester / Continuous Assessment examination, the student shall be liable for punitive action as prescribed by the college or in line with Anna University from time to time. **(Annexure I & II)**

## **20 REVISION OF REGULATION AND CURRICULUM**

The college may from time to time revise, amend or change the Regulations, scheme of examinations and syllabi if found necessary. Such changes will be notified to the students and the faculty members.

**ANNEXURE I**  
**POLICY ON MALPRACTICES**

**GENERAL**

1. It shall be the endeavour of all concerned to prevent, control and take remedial action to bring about the occurrences of malpractices to “Zero” in Examinations (both Internal and External), Assignments and also in all the other Academic class work.
2. Therefore, a comprehensive approach to the malady of malpractices has to be adopted to create a mindset of integrity and honesty, and at the same time take sufficiently stern action to make it clear that such attempts are fraught with comparably very high risk.
3. In keeping with this stance, the following measures are to be taken by all concerned from class room level to the Examination Halls:

**A. PREVENTION (This is the best method of tackling this malady)**

- a) Class room level: All faculty members are to involve themselves in the psychological growth of students by personal example and self-respect and strive towards
  - (i) Developing a sense of honour in the minds of students so that they look down upon earning undeserved marks
  - (ii) Imbibing a sense of self-respect and internal dignity that prevents him/her from succumbing to the temptation of easy marks by cheating
  - (iii) Generating an awareness of the risks to their character and career if convicted, while also explaining the process and Strict rules and regulations adopted by the Educational system to prevent Malpractices
  - (iv) Taking stern view of copied assignments and attempts at malpractices in internal examinations also which merit equal seriousness as external examinations.
  - (v) Setting in place sufficiently strong deterrent rules and regulations such as intimating the parents and warning the students in the presence of parents etc. (even in case of efforts at malpractices in Internal tests or repeated acts despite warnings in case of assignments also).
- b) Examination Halls: Detailed instructions on Invigilation, question paper setting, evaluation and all the other instructions should be brought to the notice of all the students prior to the examinations.

## **B. PENAL ACTION FOR MALPRACTICES**

All instances of malpractices will be forwarded to the Principal/ Chief Superintendents. The offences will be investigated by a Standing Enquiry Committee constituted by Principal. The committee will summon and give the student an opportunity to present / plead his/her case. The committee may also summon anybody else, if it so deems necessary for the conduct of Enquiry, in the interest of proper investigation and dispensation of the case. The committee will have tenure for the complete academic year.

The committee will be guided by the following:

- a) The seriousness of the malpractice, in terms of deviousness, and culpability/ criminality of motive.
- b) The seriousness in terms of effort and degree of deviousness and culpability / criminality of effort.
- c) Any FIR/ Police case that has been registered in the first instance by the Principal/ Chief Superintendent.
- d) Any other special consideration either mitigating or to the contrary.

## **C. PENALTY FOR OFFENSES**

The penalties awarded will depend on the seriousness of the Offense. A list of Offenses and penalties are given in **Annexure II**.

The enquiry report with the findings and recommendations of the committee should be forwarded to the Controller of Examinations who will undertake necessary follow up action. Based on the recommendations, the Controller of Examinations is empowered to award penalties for Offences classified as belonging to categories 1 to 7 of the offense table. The cases falling in categories from S.No. 8 onwards should be put up to the Principal for consideration and award of suitable penalty.

## ANNEXURE II

### Warning to the students

The students are warned to desist from doing any kind of malpractice during the examinations. If a student indulges in malpractice, the student is likely to be debarred from examination or even expelled from the Degree Programme. The nature of malpractice and the punishment are indicated in the table.

S.No	Nature of Malpractice	Maximum Punishment
1.	Plagiarism in assignments submitted for Continuous Assessment.	Cancellation of the assignment
2.	Appeal by the student in the answer script to show mercy by way of awarding more than deserving marks.	I - Fine of Rs.1000/- per course.
3.	The student writing his/her name in the answer script.	
4.	The student writing his /her registration number / college name in the place other than specified in the answer script.	
5.	Any special marking in the answer script by the student	
6.	The student communicating with neighboring student orally or non-verbally: the student causing suspicious movement of his/her body.	
7.	Irrelevant writing by the student in the answer script	
8.	The student writing answer on his/her question paper or making use of his/her question paper for rough work.	
9.	The student possessing cell phone / programmable calculator(s) / any other electronic storage device (s) gadgets.	
10.	The student facilitating the other student(s) to copy from his/her answers script.	
11.	The student possessing any incriminating material(s) (whether used or not). For example:- Written or printed materials, bits of papers containing written information, writings on scale, calculator, handkerchief, dress, part of the body, hall ticket, etc.	III A – If the quantum of the incriminating material is less than that could normally be printed in two lines of A5 size paper ,then punishment is restricted to the course concerned only
12.	The student possessing cell phone(s)/ programmable calculator(s) / any other electronic storage device(s) gadgets and containing incriminating materials (whether used or not).	III B – If the quantum is equal to or more than that could normally be printed in two lines and less than that could normally be printed in the full page of the A5 size paper, then the punishment is invalidating the examination of the course concerned and further the student is not considered for any moderation and revaluation in the current semester for any course (including arrear course).
13.	The student possessing the question paper of another student with additional writing on it.	

14.	The student passing his/her question paper to another student with additional writing on it.	III C – When the quantum is equal to or more than that could normally be printed in full page of A5 size paper, then the punishment would be invalidating the examinations of the course concerned and all the theory and the practical courses of the current semester registered by the student. Further the student is not considered for revaluation of answer script of the arrear courses. If the student has registered for the arrear courses only, invalidating the examinations of all the arrear courses registered by the student. The punishment does not include Project work and the courses with 100% internal evaluation.
15.	The student passing incriminating materials brought into the examination hall in any medium (hard/soft) to other student(s).	
16.	The student copying from neighboring student.	
17.	The student taking out of the examination hall answer booklet(s), used or unused.	
18.	Appeal by the student in the answer script coupled with a promise of any form of consideration.	
19.	Vulgar / offensive writings by the student in the answer script.	IV – Invalidating the examinations of all the theory and Practical courses of the current semester and all the arrear- courses registered by the student.
20.	The student possessing the answer script of another student.	
21.	The student passing his/her answers script to another student.	
22.	Student destroying evidence relating to an alleged irregularity.	V A – Invalidating the examinations of the course concerned and all the theory and practical courses of the current semester registered by the Student. Further the Student is not considered for revaluation of answer scripts of the arrears courses.
23.	Involved in any one or more of the malpractices of serial no.8 to 21 for the second or subsequent times.	
24.	The Student substituting an answer booklet prepared outside the examination hall for the one already distributed to the Student.	V B - If the Student has registered for arrear courses only, invalidating the examinations of all the arrear courses registered by the Student.
25.	The student misbehaving in the examination hall	<p><b><u>Additional Punishment:</u></b></p> <p>(i) If the Student has not completed the programme, he/she is debarred from continuing his//her studies for one year i.e., for two subsequent semesters. However, the student is permitted to appear for the examination in all the arrear courses during the debarred period.</p> <p>(ii) If the Student has completed the programme, he/she is prevented from writing the examinations of the arrear courses for two subsequent semesters.</p>
26.	The Student indulges in any disruptive conduct including, but not limited to, shouting, assault of invigilator, officials or student using abusive and/ or threatening language, destruction of property.	VI A Invalidating the examinations of all the theory and practical courses of the current semester and all the arrear courses registered by the student.
27.	The student harasses or engages others to harass on his/her behalf an invigilator, official, witnesses or any other person in relation to an irregularity by making telephone calls, visits, mails or any other means.	<p>VI – B If the student has registered for arrear courses only, invalidating the examinations of all the arrear courses registered by the student.</p> <p><b><u>Additional Punishment</u></b></p> <p>(i) If the student has not completed the programme, he/she is debarred from</p>

28.	Student possessing any firearm / weapon inside the examination hall.	<p>continuing his/her studies for two years i.e., for four subsequent semesters. However, the student is permitted to appear for the examination in all the arrear courses during the debarred period.</p> <p>(ii) If the student has completed the programme, he / she is prevented from writing the examinations of the arrear courses for four subsequent semesters.</p>
29.	Cases of Impersonation	<p>VII (i) Handing over the impersonator to the police with a complaint to take appropriate action against the person involved in the impersonation by the Chief Superintendent.</p> <p>(ii) If a student of this college is found to impersonate a 'bonafide student', the impersonating student is debarred from continuing his/her studies and writing the examinations permanently. He/She is not eligible for any further admission to any programme of the colleges.</p> <p>(iii) Debarring the 'bonafide student' for whom the impersonation was done from continuing his/her studies and writing the examinations permanently. He / she is not eligible for any further admission to any programme of the college.</p>