



## Criteria 1: Curricular Aspects

### 1.2 Academic Flexibility

1.2.2 Percentage of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented (Data for the latest completed academic year)

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**M.Kumarasamy**  
**College of Engineering**

**NAAC Accredited Autonomous Institution**

Approved by AICTE & Affiliated to Anna University  
ISO 9001:2015 Certified Institution  
Thalavapalayam, Karur, Tamilnadu.



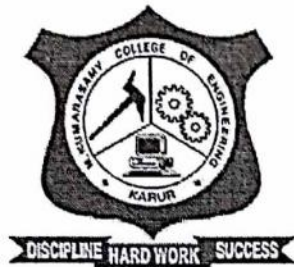
# UG Regulations 2018



# M. KUMARASAMY COLLEGE OF ENGINEERING

(An Autonomous Institution and Affiliated to Anna University Chennai)

KARUR - 639 113



**UG**

**REGULATIONS**



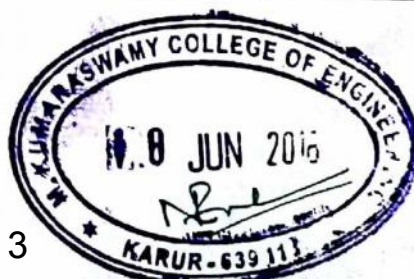
**2018.**

**M. KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113**

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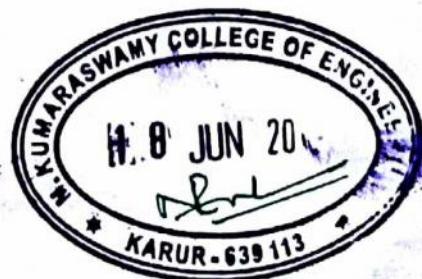
**M. KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113**  
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**REGULATIONS 2018 - COMMON TO ALL B.E / B.TECH PROGRAMMES**  
(For the batches of students admitted in to 2018-2019 onwards)

**PREFACE**

As per the recommendation of AICTE, Institutions of Higher Education need to carry out Academic reforms in revising the curriculum as per the new model curriculum of AICTE. In keeping with the recommendation, M.Kumarasamy College of Engineering has introduced the new curriculum from the Academic year 2018-19 onwards. Advanced mode of learning in higher education which facilitates a student to have some freedom to

- a. Undergo additional courses.
- b. Adopt an interdisciplinary approach in learning.
- c. Enhance skill/employability by taking up Laboratory work, Internship and Industrial training.
- d. Make best use of the expertise of available faculty





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**REGULATIONS 2018 - COMMON TO ALL B.E / B.TECH PROGRAMMES**  
(For the batches of students admitted in to 2018-2019 onwards and subsequently under Choice Based Credit System)

The Regulations presented here are common to all the B.E. / B.Tech. Degree Programmes of M.Kumarasamy College of Engineering (MKCE). This Regulations contains the course structure, curriculum and the provisions governing the policies and procedures of imparting instructions of courses, conduction of examinations, evaluation and certification of students" performance, leading to the above said Degree Programme(s). This set of Regulations may evolve and get revised/refined or updated or modified or changed through appropriate approvals from the Academic Council of the college from time to time.

## 1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In the following regulations, unless the context otherwise requires.

- 1.1 "Programme" means Degree Programme that is B.E / B.Tech Degree Programme.
- 1.2 "Branch" means, specialization or discipline of B.E. / B.Tech. degree programmes like Civil Engineering, Information Technology, etc.,
- 1.3 "Course" means, a theory subject or practical subject offered in a semester, like Mathematics, Chemistry.
- 1.4 "Head of the Department" means Head of the Department concern.
- 1.5 "Head of the Institution" means the Principal of the Campus.
- 1.6 "Controller of Examinations" means the authority of the College who is responsible for all activities of the End Semester Examinations.
- 1.7 "Odd Semester" means, the Semester that is typically from June to November.
- 1.8 "Even Semester" means, the Semester that is typically from December to May.
- 1.9 "University" means ANNA UNIVERSITY.





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## 2. QUALIFICATIONS FOR ADMISSION

### 2.1 Regular Admission

The students seeking admission to the Bachelor of Engineering and Bachelor of Technology programme shall satisfy the eligibility rules as prescribed by the Affiliating University and Directorate of Technical Education, Chennai, from time to time.

### 2.2 Lateral Entry admission

The students who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamil Nadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. degree programme as per the Tamil Nadu Government norms.

## 3. BRANCHES OF STUDY

College offers B.E. programmes in *six* branches listed below:

- i. Civil Engineering (CE)
- ii. Computer Science and Engineering (CS)
- iii. Electronics and Communication Engineering (EC)
- iv. Electrical and Electronics Engineering (EE)
- v. Electronics and Instrumentation Engineering (EI)
- vi. Mechanical Engineering (ME)

College offers B.Tech. Programme in *One* branch listed below:

- i. Information Technology (IT)

## 4. STRUCTURE OF THE PROGRAMMES

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

- I. **Humanities and Social Sciences (HS)** courses include Technical English, Engineering Ethics and Human values, Communication Skills, Employability Skills, Environmental Science and Engineering.







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- II. **Basic Sciences (BS)** courses include Mathematics, Physics, Chemistry, Biology, etc.
- III. **Engineering Sciences (ES)** courses include Engineering practices, Engineering graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.
- IV. **Professional Core (PC)** courses include the core courses relevant to the chosen specialization/branch
- V. **Professional Elective (PE)** courses include the elective courses relevant to the chosen specialization/branch
- VI. **Open Elective (OE)** courses include the courses relevant to the chosen specialization / branch which a student can choose from the curriculum of other B.E / B.Tech Programmes and courses offered by the Departments under the faculty of Science and Humanities
- VII. **Employability Enhancement Courses** include Laboratory Work and / or Internship, Seminar, Professional Practices, Case study and Industrial / Practical Training.
- VIII. **Mandatory Courses (MC)** Courses included as non-credit Mandatory Courses with only a pass in each required to qualify for Degree award.

#### 4.1 Personality and Character Development

All students shall enrol, on admission, in any one of the personality and character development programmes (the NCC / NSS / YRC / Yoga / Sports and Games) and undergo training for about 40 hours during first year. However, for valid reasons, the Principal may permit a student to complete this requirement in the second year. The training shall include classes on hygiene and health awareness and also training in first aid.

**National Cadet Corps (NCC)** will have parades.

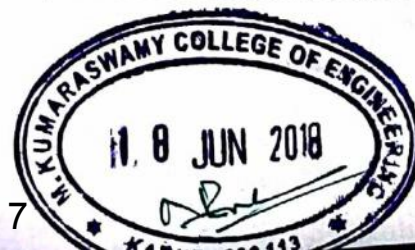
**National Service Scheme (NSS)** will have social service activities in and around the College / Institution.

**Youth Red Cross (YRC)** will have activities related to social services in and around college / institutions.

**Yoga** will have activities related to breathe control, simple meditation, and the adoption of specific bodily postures, is widely practiced for health and relaxation.

**Sports and Games** activities will have preparations for Inter- Collegiate sports events.

- 4.2. Each semester curriculum shall normally have a blend of Theory courses, Theory –cum practical and practical courses, lecture courses not exceeding 8 and practical courses not exceeding 4. However, the total number of courses per semester shall not exceed 12.





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4.3. For the award of the degree, a student has to earn certain minimum total number of credits specified in the curriculum of the relevant branch.

**4.4. Credit Assignment**

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

Contact Period Per Week	Credits
1 Lecture Period	1
1 Tutorial Period	1
2 Practical Periods (Laboratory / Seminar / Project Work / etc.)	1

**4.5. Industrial Visit**

The Students may undergo at least one Industrial visit every year starting from second year of the programme. The Head of the department shall ensure that necessary arrangements are made in this regard.

**4.6. Internship**

The students may undergo Internship at Industry / Research organization / University (after due approval from the concerned Department / Principal).

If Internship is not prescribed in the curriculum, the student may undergo Internship optionally and the credits earned will be indicated in the Mark Sheet. If the student earns three credits in Internship, the student may drop one Professional Elective. In such cases Internship needs to be undergone continuously from one organization only. However, if the number of credits earned is 1 or 2, these credits shall not be considered for classification of the degree. The student is allowed to undergo a maximum of 6 weeks Internship during the entire duration of study.

Duration of Internship	Credit(s)
2 Weeks	1
4 Weeks	2
6 Weeks	3





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#### 4.6.1 Assessment for Internship

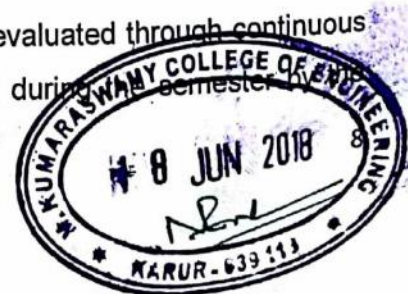
The Internship shall carry 100 marks and shall be evaluated through continuous assessment only. At the end of internship the student shall submit a brief report on the training undergone and a certificate from the organization concerned. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Department. Certificates (issued by the Organization) submitted by the student shall be attached to the mark list and sent to Controller of Examinations by the Head of the Department.

#### 4.7. One Credit Courses

One credit courses shall be offered by a Department with the prior approval from the Academic council. Students can also opt for one credit industry oriented courses of 15 hours duration which will be offered by experts form Industry / other Institution / our faculty on specialized topics. Student can complete such one credit courses during the semesters 3 to 7 as and when these courses are offered by different departments. There is no limit on the number of one credit courses a student can register and successfully complete during the above period. However a student can register for only one, one credit course in a semester. If a student wishes to avail exemption of professional electives, he/she can do so by exercising his/her option in writing to the respective Head of the department during the beginning of the pre-final / final semester (i.e., semester 7/8) by following the equivalence norm that one professional elective in the final semester is equivalent to three one credit courses completed by the student. Out of the three one credit courses submitted for equivalence to a final semester elective, a maximum of one credit course can be from humanities /language. The grades earned by the students for the one credit courses which are not opted for conversion into an elective, will not be included in the computation of CGPA.

#### 4.7.1 Assessment for One Credit Course

The one credit course shall carry 100 marks and shall be evaluated through continuous assessments only. Two Assessments shall be conducted during the semester.





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Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. The Head of the Department may identify a faculty member as coordinator for the course. A committee consisting of the Head of the Department, staff handling the course (if available), coordinator and a senior Faculty member nominated by the Head of the Department shall monitor the evaluation process. The marks shall be assigned to the students by the above committee based on their performance. The performance report should be submitted to Controller of Examinations by the Head of the Department.

#### 4.8. Self Study courses

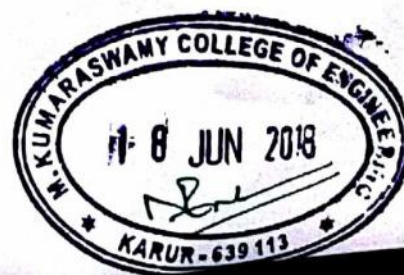
Students may be permitted to credit only one Self Study course with the approval of Head of the Department and Principal throughout the programme.

The student can opt for Self Study course provided the student does not have current arrears and earns a CGPA of 8.0 (at the time of Registration) and above. Self study course may be either an open elective or a Professional elective.

The students shall study on their own under the guidance of a faculty member. No formal lectures need to be delivered. The syllabus of the course and mode of assessments shall be approved by the Head of the Department and also formal approval of the course by the Academic Body. Preferably, One Faculty member approved by the Head of the Department shall be responsible for the periodic monitoring and evaluation of the course before the commencement of the semester.

#### 4.8.1 Assessment for Self Study Course

The Faculty member approved by the Head of the Department shall be responsible for periodic monitoring and evaluation of the course. The course shall be evaluated through Continuous Internal Assessment and End Semester Examinations. The evaluation methodology shall be the same as that of a theory course.





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**4.9. Project Work**

Project work may be allotted to a single student or to a group of students not exceeding 4 per group.

The Head of the Department concern shall constitute a review committee for project work for each branch of study. There shall be three reviews during the semester by the review committee. The student shall make presentation on the progress made by him / her before the committee.

**4.10. Electives**

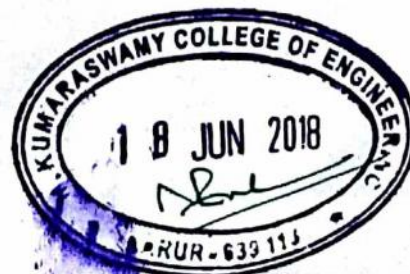
Every student shall take electives from the list of electives relating to his/her degree programme. The student will be required to study different types of electives like "science electives", "humanities electives", "open electives" and "professional electives". A student shall undergo open elective courses and professional elective courses. Open / Professional electives will spread over from 3<sup>rd</sup> semester to 8<sup>th</sup> semester. Open electives are the elective courses offered by a department for students of their own branches and also of other branches and professional electives are courses offered by a department to the students of their own branches only.

**4.11. Medium of instruction**

The Medium of Instruction is English for all courses, Examinations, Seminar presentations, Projects and Thesis Reports.

**5. DURATION OF THE PROGRAMME**

**5.1 Minimum Duration:** The programme will extend over a period of four years (Provision is made for Lateral Entry students in the third semester of the programme in all branches of study and they will be required to satisfy the conditions of admissions thereto prescribed by the University and Government of Tamil Nadu.) leading to the Degree of Bachelor of Engineering (B.E) / Bachelor of Technology (B.Tech.) of the





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Anna University. The four academic years will be divided into eight semesters with two semesters per year. Each semester shall normally consist of 90 working days including examination days.

- 5.2 Maximum Duration:** The student shall complete all the passing requirements of the B.E/B.Tech degree programme within a maximum period of 7 years (6 Years for lateral entry). These periods reckoned from the commencement of the first semester to which the student was admitted to the programme.

## 6. COURSE REGISTRATION

- i. Each student on regular admission shall register for all the courses prescribed in the curriculum in the student's first year and Second year of study.
- ii. A student has to earn the minimum number of total credits (160 - 164 Credits for regular admission and 120 - 124 Credits for lateral entry admission) specified in the curriculum of the chosen programme of study in order to be eligible to obtain the degree. However, a student can earn more than the number of credits, if he/she wishes. In such case, the highest grades would be considered for CGPA calculation.
- iii. From V semester onwards, a student has to register courses in the range between 12 and 26 credits, including the courses for which the student has done reappearance registration and supplementary examination. The credits for one credit courses and skill/proficiency based elective are exempted for calculation in the number of credits per semester.
- iv. The registration for the courses of the Semesters V to VIII will commence 7 days prior to the commencement of class work of the current semester. The student shall register for the courses with the guidance of the student's Faculty Mentor.
- v. No course shall be offered by a Department unless a minimum of 25 students register for that course.
- vi. 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





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**7. REQUIREMENTS FOR COMPLETION OF THE SEMESTER**

**7.1** A student will be qualified to appear for End Semester Examinations only if

- a) He / She has satisfied the attendance requirements as per the norms given below:
- i) Shall secure not less than 75% attendance
  - ii) If a student secures attendance 65% or more but less than 75% in the current semester due to medical reasons (hospitalization / accident / specific illness) or due to participation in the College / University / State / National / International level Sports events with prior permission from the Chairman, Sports Board and Head of the Department concerned, the student shall be given exemption from the prescribed attendance requirement and the student shall be permitted to appear for the End Semester Examinations
- b) his/her progress has been satisfactory and
- c) His/her conduct has been satisfactory
- d) Students who do not satisfy the requirement that they shall undergo 40 hours of NSS/NCC/YRC/Yoga/Sports and Games activities (vide section 4.1) during the first year will not be permitted to appear for the final examinations of fifth and further semesters. Such students are permitted to appear for the final examinations of semester 5 onwards only after completing the above mentioned requirements.
- e) A student shall normally be permitted to appear for End Semester Examinations of the course if the student has satisfied the attendance requirements (vide clause 6.1(i)) and has registered for examination in those courses of that semester by paying the prescribed fee.
- f) 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/marks.





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**8. PROVISION FOR WITHDRAWAL FROM END SEMESTER EXAMINATION**

A candidate, may for valid reasons and on prior application, be granted permission to withdraw from appearing for the examination of any one course or consecutive examinations of more than one course in any one semester examination, if he/she does not have any history of arrears at the time of request for withdrawal.

Such withdrawal shall be permitted only once during the entire period of study of the degree programme.

Withdrawal application is valid only if it is made within 10 Days before the commencement of the examination in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations.

Notwithstanding the requirement of mandatory TEN days notice, applications for Withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.

Withdrawal shall not be considered as an appearance for the eligibility of a candidate for First Class with Distinction. This provision is not applicable to those who seek withdrawal during VII semester and VIII semester.

Withdrawal from the End semester examination is NOT applicable to arrears subjects of previous semesters

The candidate shall reappear for the withdrawn courses during the examination conducted in the subsequent semester.

**TEMPORARY BREAK OF STUDY FROM THE PROGRAMME**

A student is not normally permitted to temporarily break the study. However, if a student intends to temporarily discontinue the programme in the middle for valid reasons (such as accident or hospitalization due to prolonged ill health) and to rejoin the programme in a later respective semester, he/she shall apply to the Head of the Institution through the concerned Head of the department and stating the reasons therefore.







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A student is permitted to rejoin the programme at the respective semester as and when it is offered after the break subject to the approval of Commissioner of Technical Education and Anna University, Chennai and shall be governed by rules and regulations in force at the time of rejoining.

The duration specified for passing all the courses for the purpose of classification shall be increased by the period of such break of study permitted.

The total period for completion of the programme reckoned from the commencement of the semester to which the student was first admitted shall not exceed the maximum period specified in (vide clause 5.2) irrespective of the period of break of study in order that he/she may be qualified for the award of the degree.

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

#### 10. SYSTEM OF EXAMINATION

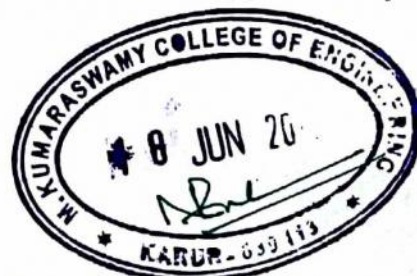
10.1 Performance of Student in each course of study shall be evaluated based on (i) Continuous Internal Assessment throughout the semester and (ii) End Semester Examination.

10.2 Each course, both Theory, Theory cum Practical and Practical (including project work & Viva voce Examinations) shall be evaluated for a maximum of 100 marks.

10.3 The End Semester Examination (Theory and Laboratory) shall ordinarily be conducted between October to December during the odd semesters and between April to June during the even semesters.

10.4 The End Semester Examination for project work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an Internal examiner followed by a viva-voce examination conducted separately for each student by a committee consisting of the External examiner and an Internal examiner.

10.5 For the End Semester Examination in both theory and practical courses including project work the internal and external examiners shall be appointed by COE (Autonomous).





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### 11. PROCEDURE FOR AWARDING MARKS FOR ASSESSMENTS

Each course shall be evaluated for a maximum of 100 marks as shown below:

S.No	Category of Course	Continuous Assessments	End Semester Examinations
1.	Theory Courses	50	50
2.	Laboratory Courses	50	50
3.	Project Work	70	30
4.	One Credit Courses	100	-
5.	Internship	100	-

#### 11.1 Assessment for Theory Courses

Scheme of evaluation details for Theory courses is given in Annexure - A.

The award of marks for continuous assessment shall be normally based on three tests, assignment, objective test, technical presentation etc. However, the pattern for awarding the continuous assessment marks may be designed by the course coordinators based on the nature of the course and is to be approved by the Academic Council.

#### 11.2 Assessment for Laboratory Courses

Scheme of Internal Assessment and End Semester Examination for Laboratory Courses, is given in Annexure -A.

Every laboratory exercise / experiment shall be evaluated based on the student performance during the laboratory class and the student's records maintained. There shall be assessment test.

The student who fails in the laboratory course shall register for the same in the subsequent semester and repeat the laboratory course again.





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### 11.3 Assessment for Project Work

Scheme of Internal Assessment and End Semester Examination for Project work, is given in Annexure -A.

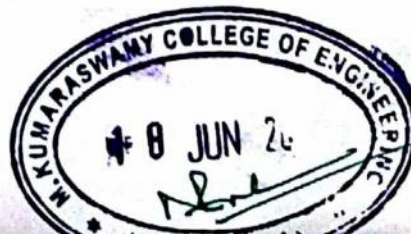
Project work may be assigned to a single student or to a group of students not exceeding 4 per group. The student shall make presentation on the progress made before the committee. The Head of the Department shall constitute a review committee for each programme. There shall be a minimum of three members in the review committee. The project Guide will be one of the members of the Review Committee.

The student(s) is expected to submit the project report on or before the last working day of the semester. The End Semester examination for project work shall consist of evaluation of the final project report submitted by the student or students of the project group by an external examiner followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the guide of the project group and an internal examiner. The Head of the Department with the approval of the Chairman of the Faculty shall appoint Internal and External Examiners for the End Semester Examinations of the Project Work.

**11.3.1** If the project report is not submitted on or before the specified deadline, an extension of time up to a maximum limit of 15 days may be given for the submission of project work with due approval obtained from the Head of the Department. If the project report is not submitted even beyond the extended time then the student(s) is deemed to have failed in the Project Work. The failed student(s) shall register for the same in the subsequent semester, when offered next, and repeat the project work again.

## 2. REQUIREMENTS FOR APPEARING FOR END SEMESTER EXAMINATIONS

A candidate shall normally be permitted to appear for the End Semester Examinations of any semester commencing from I semester if he/she has satisfied the semester completion requirements (subject to Clause 6) and has registered for examination in all courses of the semester. Registration is mandatory for semester examinations as well as arrear examinations, failing which the candidate will not be permitted to move to the higher semester. A candidate who has already appeared for any subject in a semester





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and passed the examination is not entitled to reappear in the same subject for improvement of grades /marks.

### 13. PASSING REQUIREMENTS

**13.1** A candidate who secures not less than 50% of total marks prescribed for the courses with a minimum of 50% of the marks prescribed for the End-Semester Examinations in both theory and Laboratory courses (including Project work), shall be declared to have passed the Examination.

**13.1.1** If a candidate fails to secure a pass in a particular course, it is mandatory that he/she shall register and reappear for the examination in that course during the subsequent semester when examination is conducted in that course; he/she should continue to register and reappear for the examinations in the failed subjects till he / she secures a pass.

**13.1.2** 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 secure a pass. However, from the 3<sup>rd</sup> attempt onwards if a candidate fails to obtain pass marks (Internal Assessment + End Semester Examination) is the passing requirement shall be as follows:

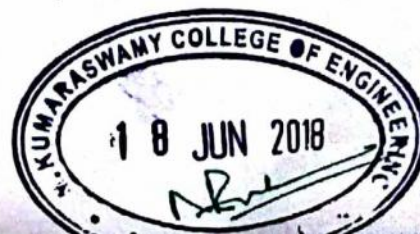
The candidate should secure 50% and above the maximum marks prescribed for course in the End Semester Examinations alone irrespective of Internal Assessment marks obtained.

### 14. AWARD OF LETTER GRADES

**14.1** All assessments of a course will be done on absolute marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the candidate in each subject as detailed below:

Range of %of Total Marks	91-100	81-90	71-80	61-70	57-60	50-56	0-49
Letter Grade	S	A	B	C	D	E	F
Grade Point	10	9	8	7	6	5	0

17





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"F" denotes Reappearance is required for the examination in the course.  
(This grade will figure both in Marks Sheet as well as in Result Sheet)

"W" denotes withdrawal from the course and "I" denotes incomplete of course

The Grade "SA" denotes Shortage of Attendance and hence prevention from writing the end semester examination.

The Grade "SA" and "W" will figure only in the Result Sheets.

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

- The list of courses enrolled during the semester and the grade 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 for courses acquired and the corresponding points to the sum of the number of credits for the courses acquired in the semester.

$$\text{GPA} = \frac{\text{Sum of [Credits acquired x Grade points]}}{\text{Sum of [Credits acquired]}}$$

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

$$\text{CGPA} = \frac{\sum_{i=1}^n \text{GP}_i}{\sum_{i=1}^n \text{C}_i} \quad n$$

Where

$\text{C}_i$  - is the Credits assigned to the course

$\text{GP}_i$  - is the point corresponding to the grade obtained for each Course

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





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### 15. REVALUATION

A candidate can apply for revaluation of his/her semester examination answer paper in a theory course, within a week from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Institution. A candidate can apply for revaluation of answer scripts for not exceeding 5 subjects at a time. The Controller of Examination will arrange for the revaluation and the results will be intimated to the candidate concerned through the Head of the Institution. Revaluation is not permitted for practical courses, seminars, practical training and for project work.

### 16. ELIGIBILITY FOR THE AWARD OF THE DEGREE

A student shall be declared to be eligible for the award of the Degree if he/she has

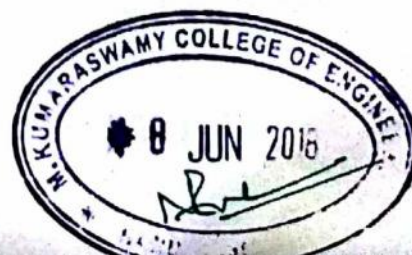
- Successfully gained the required number of total credits as specified in the Curriculum corresponding to his/her Programme within the stipulated time.
- No disciplinary action is pending against him/her.
- Successfully completed the field visit / Industrial training, if any, as prescribed in the curriculum.
- Successfully completed any additional courses prescribed by the Board of Studies and Approved by Academic Council, whenever any candidate is readmitted under revised Regulations.

### 17. AWARD OF DEGREE

#### 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.

- Should have passed the End Semester Examination in all the courses of all the eight semesters in his/her first appearance within 5 years, (4 years of lateral entry students) which includes authorized break of study of one year and





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Withdrawal from examination ( Vide Clause 7) 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 condition shall be declared to have passed the examination in First class.

- Should have passed the End Semester Examination in all the courses of all eight semesters within 5 years, (4 years of lateral entry students) 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.

#### 17.3 SECOND CLASS

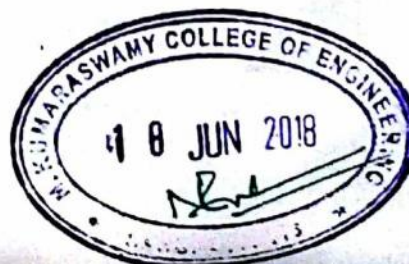
All other students (not covered in clauses 16.1 and 16.2) who qualify for the award of the degree shall be declared to have passed the examination in second class.

#### 17.4 RANK

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

#### 18. DISCIPLINE

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





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prestige of the University / College. The Principal shall constitute a disciplinary committee consisting of Principal, Two Heads of Department of which one should be from the faculty of the student, to enquire into acts of indiscipline and notify the University about the disciplinary action recommended for approval. If a student indulges in malpractice in any of the End Semester Examinations he / she shall be liable for punitive action as decided by the malpractice committee from time to time.

**19. REVISION OF REGULATION AND CURRICULUM**

These Regulations may get revised / amended from time to time and on approval by the Academic Council and the Governing Body shall come in to force and shall be binding on the students, faculty, and all authorities of the Institute and others concerned.

**20. SPECIAL CASES**

In the event of any clarification in the interpretation of the above rules and regulation they shall be referred to the standing committee. The standing committee will offer suitable interpretations / clarification / amendments required for special case on such references and get them ratified in the next meeting of the Academic Council. The decision of the Academic Council is final.







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**ANNEXURE – A**

SCHEME OF EVALUATION			
Programme – Regulation 2018		B.E/ B.Tech	
THEORY COURSES			
Continuous Internal Assessment (CIA) - 50%		End Semester Examinations(ESE)- 50%	
S.No.	Particulars	Weightage Marks	Maximum Marks (100)
<b>A.</b>	<b>Continuous Internal Assessment (CIA) Distribution</b>		
	Internal Tests		
1.	Test I (M.S.E.-I)	10	50
	Test II (M.S.E.-II)	10	
	Test III (P.E.)	10	
2.	Objective Test / Unit Test / e Learning	5	
3.	Technical Presentation (Seminars, Mini-Projects, Case-Studies, Self-Study, Certifications, Conf. Paper, Class Interaction, Quiz etc.)	5	
4.	Assignment	10	
<b>B.</b>	<b>End Semester Examinations</b>		<b>50</b>

Programme – Regulation 2018		B.E/ B.Tech	
LABORATORY COURSES			
Continuous Internal Assessment (CIA) - 50%		End Semester Examinations (ESE) - 50%	
S.No.	Particulars	Weightage Marks	Maximum Marks (100)
<b>A.</b>	<b>Continuous Internal Assessment (CIA) Distribution</b>		
1.	All Experiments marks are distributed towards to Continuous Assessment	50	100
<b>B.</b>	<b>End Semester Examinations (ESE)</b>	50	





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SCHEME OF ASSESSMENT FOR PROJECT WORK							
Continuous Internal Assessment (70%)					End Semester Examinations (30%)		
Review – I (10)	Review – II (30)		Review – III (30)		Report Evaluation & Viva voce (30)		
Review Committee	Review Committee	Guide	Review Committee	Guide	Report Evaluation (External Examiner)	Internal Examiner	External Examiner
10	20	10	20	10	10	10	10

SCHEME OF ASSESSMENT FOR INTERNSHIP			
Continuous Assessment			
Report/Record Preparation	Final Examination / Presentation	Viva Voce	Total
30	50	20	100

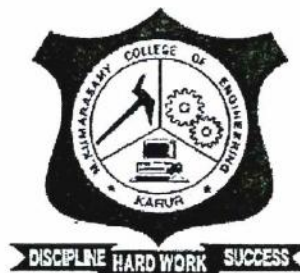
SCHEME OF ASSESSMENT FOR ONE CREDIT COURSES			
Continuous Assessment			
Assignment / Report / Case Study	Final Examination / Presentation	Viva Voce	Total
30	50	20	100



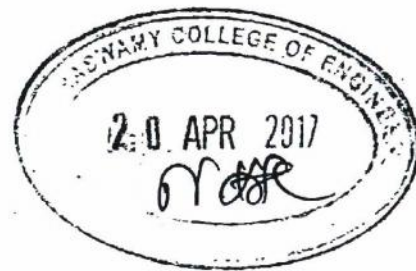
# M. KUMARASAMY COLLEGE OF ENGINEERING

Autonomous Institution and Affiliated to Anna University Chennai)

KARUR - 639 113



## REGULATIONS



2016

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COLLEGE OF ENGINEERING  
20 APR 2017  
*[Signature]*



REGULATIONS 2016 - COMMO  
(For the batches of students admitted in to 2016)

ALL B.E / B.TECH PROGRAMMES  
(subsequently under Choice Based Credit System)

FACE

As per the recommendation of AICTE, Institutions of Higher Education need to carry out Academic reforms in introduction of Choice Based Credit System and continuous assessment system. In keeping with the recommendation, M.Kumarasamy College of Engineering has introduced Choice Based Credit System (CBCS) from the Academic year 2016-17 onwards. Choice Based Credit System (CBCS) is a proven, advanced mode of learning in higher education, which facilitates a student to have some freedom in selecting his/her own choices in the curriculum for completing a degree program. CBCS offers a flexible system of learning. This system permits a student to

- a. Undergo additional courses and acquire more than required number of credits
- b. Adopt an interdisciplinary approach in learning
- c. Enhance skill/employability by taking up Laboratory work, Internship and Industrial training.
- d. Make best use of the expertise of available faculty





**REGULATIONS 2016 - COMMON TO ALL B.E / B.TECH PROGRAMMES**  
(For the batches of students admitted in to 2016 - 2017 and subsequently under Choice Based Credit System)

The Regulations presented here are common to all the B.E. / B.Tech. Degree Programmes of M.Kumarasamy College of Engineering (MKCE). This Regulations contains the course structure, curriculum and the provisions governing the policies and procedures of imparting instructions of courses, conduction of examinations, evaluation and certification of students' performance, leading to the above said Degree Programme(s). This set of Regulations may evolve and get revised/refined or updated or modified or changed through appropriate approvals from the Academic Council of the college from time to time.

**1. PRELIMINARY DEFINITIONS AND NOMENCLATURE**

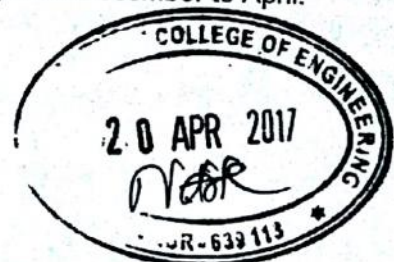
In the following regulations, unless the context otherwise requires.

- 1.1 "Programme" means Degree Programme, that is B.E / B.Tech Degree Programme.
- 1.2 "Branch" means, specialization or discipline of B.E. / B.Tech. degree programmes like Civil Engineering, Information Technology, etc.,
- 1.3 "Course" means, a theory subject or practical subject offered in a semester, like Mathematics, Chemistry.
- 1.4 "Head of the Department" means Head of the Department concern.
- 1.5 "Head of the Institution" means the Principal of the Campus.
- 1.6 "Controller of Examinations" means the authority of the College who is responsible for all activities of the End Semester Examinations.
- 1.7 "Odd Semester" means, the Semester that is typically from June to November.
- 1.8 "Even Semester" means, the Semester that is typically from December to April.
- 1.9 "University" means ANNA UNIVERSITY.

**2. QUALIFICATIONS FOR ADMISSION**

**2.1 Regular Admission**

The students seeking admission to the Bachelor of Engineering and Bachelor of Technology programme shall require satisfying eligibility rules as prescribed by the Affiliating University and Directorate of Technical Education, Chennai, from time to time.



## 2.2 Lateral Entry admission

The students who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamil Nadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. degree programme as per the Tamil Nadu Government norms.

## 3. BRANCHES OF STUDY

College offers B.E. programmes in *Six* branches listed below:

- i. Civil Engineering (CE)
- ii. Computer Science and Engineering (CS)
- iii. Electronics and Communication Engineering (EC)
- iv. Electrical and Electronics Engineering (EE)
- v. Electronics and Instrumentation Engineering (EI)
- vi. Mechanical Engineering (ME)



College offers B.Tech. Programme in *One* branch listed below:

- i. Information Technology (IT)

## 4. STRUCTURE OF THE PROGRAMMES

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

- I. **Humanities and Social Sciences (HS)** courses include Technical English, Engineering Ethics and Human values, Communication Skills, Employability Skills, Environmental Science and Engineering.
- II. **Basic Sciences (BS)** courses include Mathematics, Physics, Chemistry, Biology, etc.
- III. **Engineering Sciences (ES)** courses include Engineering practices, Engineering graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.
- IV. **Professional Core (PC)** courses include the core courses relevant to the chosen specialization/branch
- V. **Professional Elective (PE)** courses include the elective courses relevant to the chosen specialization/branch
- VI. **Open Elective (OE)** courses include the courses relevant to the chosen specialization / branch which a student can choose from the curriculum of other B.E / B.Tech Programmes and courses offered by the Departments under the faculty of Science and Humanities
- VII. **Employability Enhancement Courses** include Laboratory Work and / or Internship, Seminar, Professional Practices, Case study and Industrial / Practical Training.
- VIII. **Mandatory Courses (MC)** Courses included as non-credit Mandatory Courses with only a pass in each required to qualify for Degree award.

#### 4.1 Personality and Character Development

All students shall enroll, on admission, in any one of the personality and character development programmes (the NCC / NSS / YRC / Yoga / Sports and Games) and undergo training for about 40 hours during first year. However, for valid reasons, the Principal may permit a student to complete this requirement in the second year. The training shall include classes on hygiene and health awareness and also training in first-aid.

**National Cadet Corps (NCC)** will have parades.

**National Service Scheme (NSS)** will have social service activities in and around the College / Institution.

**Youth Red Cross (YRC)** will have activities related to social services in and around college / institutions.

**Yoga** will have activities related to breathe control, simple meditation, and the adoption of specific bodily postures, is widely practiced for health and relaxation.

**Sports and Games** activities will have preparations for Inter- Collegiate sports events.

While the training activities will normally be during weekends, the camp will normally be during vacation period.

4.2. Each semester curriculum shall normally have a blend of Theory courses, Theory –cum practical and practical courses, lecture courses **not exceeding 8** and practical courses **not exceeding 4**. However, the total number of courses per semester shall **not exceed 12**.

4.3. For the award of the degree, a student has to earn certain minimum total number of credits specified in the curriculum of the relevant branch.

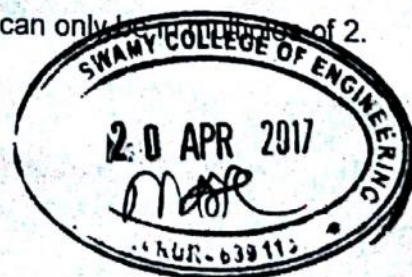
#### 4.4. Credit Assignment

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

Contact Period Per Week	Credits
1 Lecture Period	1
2 Tutorial Periods	1
2 Practical Periods (Laboratory / Seminar / Project Work / etc.)	1

The Contact Periods per week for Tutorials and Practical can only be a maximum of 2.

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#### 4.5. Industrial Visit

The Students may undergo at least one Industrial visit every year starting from second year of the programme. The Head of the department shall ensure that necessary arrangements are made in this regard.

#### 4.6. Internship

The students may undergo Internship at Industry / Research organization / University (after due approval from the concerned Department / Principal).

If Internship is not prescribed in the curriculum, the student may undergo Internship optionally and the credits earned will be indicated in the Mark Sheet. If the student earns three credits in Internship, the student may drop one Professional Elective. In such cases Internship needs to be undergone continuously from one organization only. However, if the number of credits earned is 1 or 2, these credits shall not be considered for classification of the degree. The student is allowed to undergo a maximum of 6 weeks Internship during the entire duration of study.

Duration of Internship	Credit(s)
2 Weeks	1
4 Weeks	2
6 Weeks	3

#### 4.6.1 Assessment for Internship

The Internship shall carry 100 marks and shall be evaluated through continuous assessment only. At the end of internship the student shall submit a brief report on the training undergone and a certificate from the organization concerned. 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 Department. Certificates (issued by the Organization) submitted by the student shall be attached to the mark list and sent to Controller of Examinations by the Head of the Department.



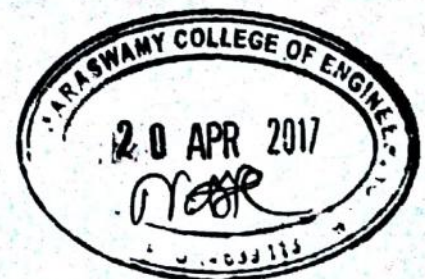


#### 4.7. One Credit Courses

One credit courses shall be offered by a Department with the prior approval from the Academic council. Students can also opt for one credit industry oriented courses of 15 hours duration which will be offered by experts form Industry / other Institution / our faculty on specialized topics. Student can complete such one credit courses during the semesters 3 to 7 as and when these courses are offered by different departments. There is no limit on the number of one credit courses a student can register and successfully complete during the above period. However a student can register for only one, one credit course in a semester. If a student wishes to avail exemption of professional electives, he/she can do so by exercising his/her option in writing to the respective Head of the department during the beginning of the pre-final / final semester (i.e., semester 7/8) by following the equivalence norm that one professional elective in the final semester is equivalent to three one credit courses completed by the student. Out of the three one credit courses submitted for equivalence to a final semester elective, a maximum of one credit course can be from humanities /language. The grades earned by the students for the one credit courses which are not opted for conversion into an elective, will not be included in the computation of CGPA.

##### 4.7.1 Assessment for One Credit Course

The one credit course shall carry 100 marks and shall be evaluated through continuous assessments only. Two Assessments shall be conducted during the semester by the Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. The Head of the Department may identify a faculty member as coordinator for the course. A committee consisting of the Head of the Department, staff handling the course (if available), coordinator and a senior Faculty member nominated by the Head of the Department shall monitor the evaluation process. The marks shall be assigned to the students by the above committee based on their performance. The performance report should be submitted to Controller of Examinations by the Head of the Department.





#### 4.8. Self Study courses

Students may be permitted to credit only one Self Study course with the approval of Head of the Department and Principal throughout the programme.

The student can opt for Self Study course provided the student does not have current arrears and earns a CGPA of 8.0 (at the time of Registration) and above. Self study course may be either an open elective or a Professional elective.

The students shall study on their own under the guidance of a faculty member. No formal lectures need to be delivered. The syllabus of the course and mode of assessments shall be approved by the Head of the Department and also formal approval of the course by the Academic Body. Preferably, One Faculty member approved by the Head of the Department shall be responsible for the periodic monitoring and evaluation of the course before the commencement of the semester.

##### 4.8.1 Assessment for Self Study Course

The Faculty member approved by the Head of the Department shall be responsible for periodic monitoring and evaluation of the course. The course shall be evaluated through Continuous Internal Assessment and End Semester Examinations. The evaluation methodology shall be the same as that of a theory course.

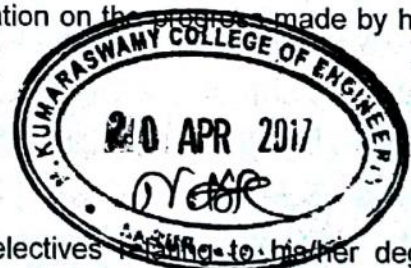
#### 4.9. Project Work

Project work may be allotted to a single student or to a group of students not exceeding 4 per group.

The Head of the Department concern shall constitute a review committee for project work for each branch of study. There shall be three reviews during the semester by the review committee. The student shall make presentation on the progress made by him / her before the committee.

#### 4.10. Electives

Every student shall opt electives from the list of electives ~~resolving to his~~ her degree programme. The student will be required to study different types of electives like 'science electives', 'humanities electives', 'open electives' and 'professional electives'. A student shall undergo open elective courses and professional elective courses. Open /



Professional electives will spread over from 3<sup>rd</sup> semester to 8<sup>th</sup> semester. Open electives are the elective courses offered by a department for students of their own branches and also of other branches and professional electives are courses offered by a department to the students of their own branches only.

#### 4.11. Course Enrollment and Registration

4.11.1 Each student, on admission shall be assigned to a Mentor / Class Advisor 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.

4.11.2 After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn continuous Assessment marks and appear for the end semester examinations

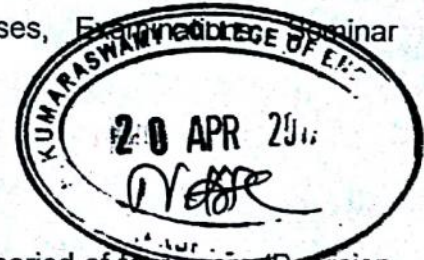
The enrollment for all the courses of the semester II will commence 10 working days prior to the last working day of semester I. The student shall confirm the enrollment by registering for the courses within the Ten working days after the publication of semester I results. The enrollment for the courses of the semesters III to VIII will commence 10 working days prior to the last working day of the preceding semester. The student shall confirm the enrollment by registering for the courses within the Ten working days after the publication of preceding semester results. The student shall enroll for the courses with the guidance of the Mentor / Class Advisor.

#### 4.12. Medium of instruction

The Medium of Instruction is English for all courses, English Seminar presentations, Projects and Thesis Reports.

#### 5. DURATION OF THE PROGRAMME

5.1 **Minimum Duration:** The programme will extend over a period of four years (Provision is made for Lateral Entry students in the third semester of the programme in all branches of study and they will be required to satisfy the conditions of admissions thereto prescribed by the University and Government of Tamil Nadu.) leading to the Degree of Bachelor of Engineering (B.E) / Bachelor of Technology (B.Tech.) of the





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Anna University. The four academic years will be divided into eight semesters with two semesters per year. Each semester shall normally consist of 90 working days including examination days.

**5.2 Maximum Duration:** The student shall complete all the passing requirements of the B.E/B.Tech degree programme within a maximum period of 8 years (7 Years for lateral entry). These periods reckoned from the commencement of the first semester to which the student was admitted to the programme.

### 6. REQUIREMENTS FOR COMPLETION OF THE SEMESTER

**6.1** A student will be qualified to appear for End Semester Examinations only if

a) He / She has satisfied the attendance requirements as per the norms given below:

i) Shall secure not less than 75% attendance

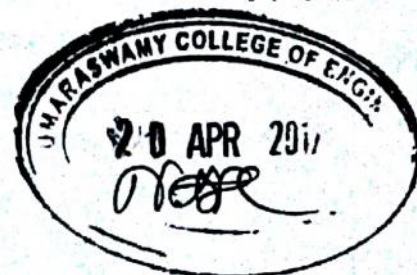
ii) If a student secures attendance 65% or more but less than 75% in the current semester due to medical reasons (hospitalization / accident / Specific illness) or due to participation in the College / University / State / National / International level Sports events with prior permission from the Chairman, Sports Board and Head of the Department concerned, the student shall be given exemption from the prescribed attendance requirement and the student shall be permitted to appear for the End Semester Examinations

b) his/her progress has been satisfactory and

c) His/her conduct has been satisfactory

d) Students who do not satisfy the requirement that they shall undergo 40 hours of NSS/NCC/YRC/Yoga/Sports and Games activities (vide section 4.1) during the first year will not be permitted to appear for the final examinations of fifth and further semesters. Such students are permitted to appear for the final examinations of semester 5 onwards only after completing the above mentioned requirements.

e) A student shall normally be permitted to appear for End Semester Examinations of the course if the student has satisfied the attendance requirements (vide clause 6.1(i)) and has registered for examination in those courses of that semester by paying the prescribed fee.



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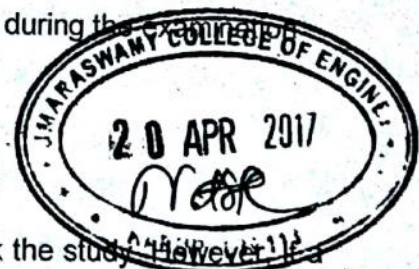
D. A student who has already appeared for a course in a semester and passed the examination is not entitled to reappear in the same course for improvement of letter grades/marks.

#### 7. PROVISION FOR WITHDRAWAL FROM END SEMESTER EXAMINATION

- 7.1 A candidate, may for valid reasons and on prior application, be granted permission to withdraw from appearing for the examination of any one course or consecutive examinations of more than one course in any one semester examination, if he/she does not have any history of arrears at the time of request for withdrawal.
- 7.2 Such withdrawal shall be permitted only once during the entire period of study of the degree programme.
- 7.3 Withdrawal application is valid only if it is made within 10 Days before the commencement of the examination in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations.
- 7.4 Notwithstanding the requirement of mandatory TEN days notice, applications for Withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 7.5 Withdrawal shall not be considered as an appearance for the eligibility of a candidate for First Class with Distinction. This provision is not applicable to those who seek withdrawal during VII semester and VIII semester.
- 7.6 Withdrawal from the End semester examination is NOT applicable to arrears subjects of previous semesters
- 7.7 The candidate shall reappear for the withdrawn courses during the examination conducted in the subsequent semester.

#### 8. TEMPORARY BREAK OF STUDY FROM THE PROGRAMME

- i. A student is not normally permitted to temporarily break the study. However, if a student intends to temporarily discontinue the programme in the middle for valid reasons (such as accident or hospitalization due to prolonged ill health) and to rejoin the programme in a later respective semester, he/she shall apply to the





- Head of the Institution through the concerned Head of the department and stating the reasons therefore.
- ii. A student is permitted to rejoin the programme at the respective semester as and when it is offered after the break subject to the approval of Commissioner of Technical Education and Anna University, Chennai and shall be governed by rules and regulations in force at the time of rejoining.
  - iii. The duration specified for passing all the courses for the purpose of classification shall be increased by the period of such break of study permitted.
  - iv. The total period for completion of the programme reckoned from the commencement of the semester to which the student was first admitted shall not exceed the maximum period specified in (vide clause 5.2) irrespective of the period of break of study in order that he/she may be qualified for the award of the degree.
  - v. If any student is detained for want of requisite attendance, progress and conduct, the period spent in that semester shall not be considered as permitted 'Break of Study'.

#### 9. SYSTEM OF EXAMINATION

- 9.1 Performance of Student in each course of study shall be evaluated based on (i) Continuous Internal Assessment throughout the semester and (ii) End Semester Examination.
- 9.2 Each course, both Theory, Theory cum Practical and Practical (including project work & Viva voce Examinations) shall be evaluated for a maximum of 100 marks.
- 9.3 The End Semester Examination (Theory and Laboratory) of 3 hours duration shall ordinarily be conducted between October and December during the odd semesters and between April and June during the even semesters.
- 9.4 The End Semester Examination for project work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an Internal examiner followed by a viva-voce examination conducted separately for each student by a committee consisting of the External examiner and an Internal examiner.
- 9.5 For the End Semester Examination in both theory and practical courses including project work the internal and external examiners shall be appointed by COE (Autonomous).





## 10. PROCEDURE FOR AWARDING MARKS FOR ASSESSMENTS

Each course shall be evaluated for a maximum of 100 marks as shown below:

S.No	Category of Course	Continuous Assessments	End Semester Examinations
1.	Theory Courses	50	50
2.	Theory cum Practical Courses	60	40
3.	Laboratory Courses	70	30
4.	Project Work	70	30
5.	One Credit Courses	100	-
6.	Internship	100	-

### 10.1 Assessment for Theory Courses

Scheme of evaluation details for Theory courses is given in Annexure - A.

The award of marks for continuous assessment shall be normally based on three tests, assignment, objective test, technical presentation and attendance. However, the pattern for awarding the continuous assessment marks may be designed by the course coordinators based on the nature of the course and is to be approved by the Academic Council.

### 10.2 Assessment for Laboratory Courses

Scheme of Internal Assessment and End Semester Examination for Laboratory Courses, is given in Annexure -A.

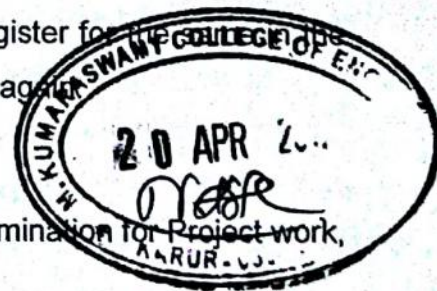
Every laboratory exercise / experiment shall be evaluated based on the student performance during the laboratory class and the student's records maintained. There shall be assessment test.

The student who fails in the laboratory course shall register for the subsequent semester and repeat the laboratory course again.

### 10.3 Assessment for Project Work

Scheme of Internal Assessment and End Semester Examination for Project work, is given in Annexure -A.

Project work may be assigned to a single student or to a group of students not exceeding 4 per group. The student shall make presentation on the progress







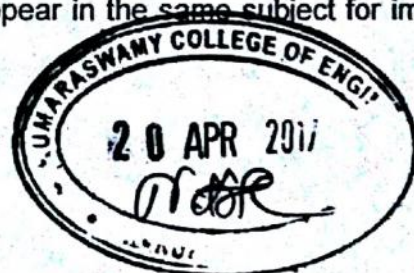
made before the committee. The Head of the Department shall constitute a review committee for each programme. There shall be a minimum of three members in the review committee. The project Guide will be one of the members of the Review Committee.

The student(s) is expected to submit the project report on or before the last working day of the semester. The End Semester examination for project work shall consist of evaluation of the final project report submitted by the student or students of the project group by an external examiner followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the guide of the project group and an internal examiner. The Head of the Department with the approval of the Chairman of the Faculty shall appoint Internal and External Examiners for the End Semester Examinations of the Project Work.

**10.3.1** If the project report is not submitted on or before the specified deadline, an extension of time up to a maximum limit of 15 days may be given for the submission of project work with due approval obtained from the Head of the Department. If the project report is not submitted even beyond the extended time then the student(s) is deemed to have failed in the Project Work. The failed student(s) shall register for the same in the subsequent semester, when offered next, and repeat the project work again.

## **11. REQUIREMENTS FOR APPEARING FOR END SEMESTER EXAMINATIONS**

A candidate shall normally be permitted to appear for the End Semester Examinations of any semester commencing from I semester if he/she has satisfied the semester completion requirements (subject to Clause 6) and has registered for examination in all courses of the semester. Registration is mandatory for semester examinations as well as arrear examinations, failing which the candidate will not be permitted to move to the higher semester. A candidate who has already appeared for any subject in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades /marks.





## 12. PASSING REQUIREMENTS

12.1 A candidate who secures not less than 50% of total marks prescribed for the courses with a minimum of 50% of the marks prescribed for the End-Semester Examinations in both theory and Laboratory courses (including Project work), shall be declared to have passed the Examination.

12.1.1 If a candidate fails to secure a pass in a particular course, it is mandatory that he/she shall register and reappear for the examination in that course during the subsequent semester when examination is conducted in that course; he/she should continue to register and reappear for the examinations in the failed subjects till he / she secures a pass.

12.1.2 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 secure a pass. However, from the 3<sup>rd</sup> attempt onwards if a candidate fails to obtain pass marks (Internal Assessment + End Semester Examination) is the passing requirement shall be as follows:

The candidate should secure 50% and above the maximum marks prescribed for course in the End Semester Examinations alone irrespective of Internal Assessment marks obtained.

## 13. AWARD OF LETTER GRADES

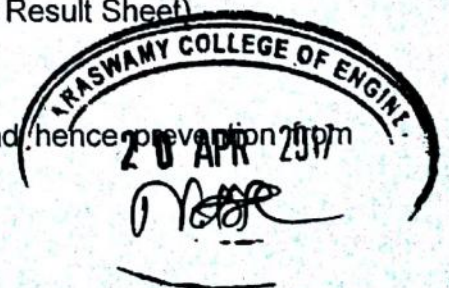
13.1 All assessments of a course will be done on absolute marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the candidate in each subject as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

Range of % of Total Marks	91-100	81-90	71-80	61-70	57-60	50-56	0-49
Letter Grade	S	A	B	C	D	E	F
Grade Point	10	9	8	7	6	5	0

"F" denotes Reappearance is required for the examination in the course. (This grade will figure both in Marks Sheet as well as in Result Sheet)

"W" denotes withdrawal from the course.

The Grade "SA" denotes Shortage of Attendance and hence prevention from writing the end semester examination.





The Grade "SA" and "W" will figure only in the Result Sheets.

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

- The list of courses enrolled during the semester and the grade 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 for courses acquired and the corresponding points to the sum of the number of credits for the courses acquired in the semester.

$$\text{GPA} = \frac{\text{Sum of [Credits acquired x Grade points]}}{\text{Sum of [Credits acquired]}}$$

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

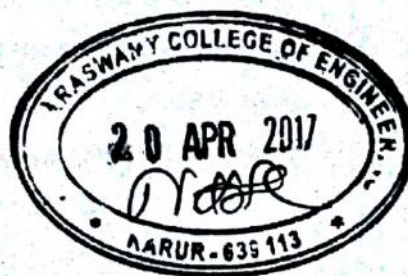
$$\text{CGPA} = \frac{\sum_{i=1}^n \text{GP}_i \cdot C_i}{\sum_{i=1}^n C_i}$$

where

$C_i$  - is the Credits assigned to the course

$\text{GP}_i$  - is the point corresponding to the grade obtained for each Course

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





#### 14. REVALUATION

A candidate can apply for revaluation of his/her semester examination answer paper in a theory course, within a week from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Institution. A candidate can apply for revaluation of answer scripts for not exceeding 5 subjects at a time. The Controller of Examination will arrange for the revaluation and the results will be intimated to the candidate concerned through the Head of the Institution. Revaluation is not permitted for practical courses, seminars, practical training and for project work.

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

A student shall be declared to be eligible for the award of the Degree if he/she has

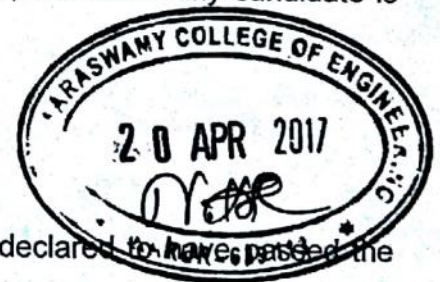
- Successfully gained the required number of total credits as specified in the Curriculum corresponding to his/her Programme within the stipulated time.
- No disciplinary action is pending against him/her.
- Successfully completed the field visit / Industrial training, if any, as prescribed in the curriculum.
- Successfully completed any additional courses prescribed by the Board of Studies and Approved by Academic Council, whenever any candidate is readmitted under revised Regulations.

#### 16. AWARD OF DEGREE

##### 16.1 FIRST CLASS WITH DISTINCTION

A student who satisfies the following conditions shall be declared to have passed the examination in first class with distinction.

- Should have passed the End Semester Examination in all the courses of all the eight semesters in his/her first appearance within 5 years, (4 years of lateral entry students) which includes authorized break of study of one year and Withdrawal from examination ( Vide Clause 7) 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.





#### 16.2 FIRST CLASS

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

- Should have passed the End Semester Examination in all the courses of all eight semesters within 5 years, (4 years of lateral entry students) 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.

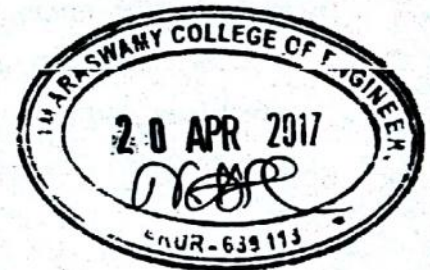
#### 16.3 SECOND CLASS

All other students (not covered in clauses 16.1 and 16.2) who qualify for the award of the degree shall be declared to have passed the examination in second class.

#### 16.4 RANK

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

### 17. DISCIPLINE



### 18. SUPPLEMENTARY EXAMINATION

A supplementary examination will be conducted within next one month from the date of publication of eighth semester result to facilitate the final year students to clear their arrear, if any (As per Academic Council decision) for successful completion of degree program.

Such student shall not however have the benefit of rank or award.

- Supplementary exam will be counted as an attempt.
- Supplementary exam will be conducted only for Theory subjects. Practicals and Projects are not allowed.
- Students applying for revaluation can also apply for supplementary exam. They need not write the supplementary exam if passed in revaluation.



A student, eligible to appear for the end semester examination in a subject, but absent from it due to medical reasons or obtained grade "U" in the End Semester Examinations of eighth semester, may write supplementary exams in that subject. Such student shall not however have the benefit of rank or award.

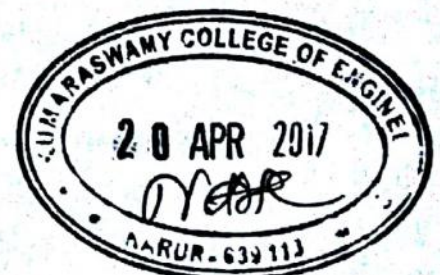
- Supplementary exam will be counted as an attempt.
- Supplementary exam will be conducted only for Theory subjects. Practicals and Projects are not allowed.
- Students applying for revaluation can also apply for supplementary exam. They need not write the supplementary exam if passed in revaluation.

#### **19. REVISION OF REGULATION AND CURRICULUM**

These Regulations may get revised / amended from time to time and on approval by the Academic Council and the Governing Body shall come in to force and shall be binding on the students, faculty, and all authorities of the Institute and others concerned.

#### **20. SPECIAL CASES**

In the event of any clarification in the interpretation of the above rules and regulation they shall be referred to the standing committee. The standing committee will offer suitable interpretations / clarification / amendments required for special case on such references and get them ratified in the next meeting of the Academic Council. The decision of the Academic Council is final.

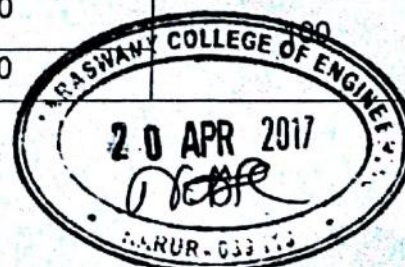




SCHEME OF EVALUATION		(Annexure - A)	
Programme - Regulation 2016		B.E/ B.Tech	
THEORY COURSES			
Continuous Internal Assessment (CIA) - 50%		End Semester Examinations(ESE)- 50%	
S.No.	Particulars	Weightage Marks	Maximum Marks (100)
<b>A. Continuous Internal Assessment (CIA) Distribution</b>			
Internal Tests			
1.	Test I	10	50
	Test II	10	
	Test III	10	
2.	Objective Test	5	
3.	Technical Presentation (Presentation day)	5	
4.	Attendance	5	
5.	Assignment	5	
<b>B.</b>	<b>End Semester Examinations</b>		<b>50</b>

Programme - Regulation 2016		B.E/ B.Tech	
THEORY CUM LABORATORY COURSES			
Continuous Internal Assessment (CIA) - 60%		End Semester Examinations(ESE) - 40%	
S.No.	Particulars	Weightage Marks	Maximum Marks (100)
<b>A. Continuous Internal Assessment (CIA) Distribution</b>			
Internal Tests			
1.	Test I	10	60
	Test II	10	
	Test III	10	
2.	Attendance	5	
3.	Assignment (Theory component)	5	
<b>B</b>	<b>Laboratory-Continuous Assessment</b>	<b>20</b>	
<b>C.</b>	<b>End Semester Examinations (ESE)</b>		<b>40</b>

Programme - Regulation 2016		B.E/ B.Tech	
LABORATORY COURSES			
Continuous Internal Assessment (CIA) - 70%		End Semester Examinations (ESE) - 30%	
S.No.	Particulars	Weightage Marks	Maximum Marks (100)
<b>A. Continuous Internal Assessment (CIA) Distribution</b>			
1.	All Experiments marks are distributed towards to Continuous Assessment	70	
<b>B.</b>	<b>End Semester Examinations (ESE)</b>	<b>30</b>	





**SCHEME OF ASSESSMENT FOR PROJECT WORK**

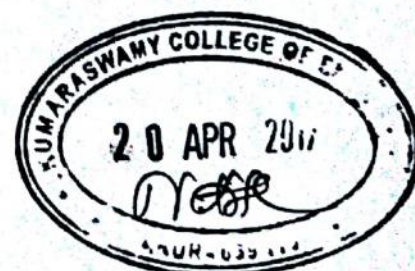
Continuous Internal Assessment (70)					End Semester Examinations (30)		
Review - I (10)	Review - II (30)		Review - III (30)		Report Evaluation & Viva voce (30)		
Review Committee	Review Committee	Guide	Review Committee	Guide	Report Evaluation (External Examiner)	Internal Examiner	External Examiner
10	20	10	20	10	10	10	10

**SCHEME OF ASSESSMENT FOR INTERNSHIP (100%)**

Continuous Assessment			
Report/Record Preparation	Final Examination with Presentation	Viva Voce	Total
50	30	20	100

**SCHEME OF ASSESSMENT FOR ONE CREDIT COURSES (100%)**

Continuous Assessment			
Assessment I	Assessment II	Assignment / Report	Total
40	40	20	100







**M.Kumarasamy**  
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University  
Thalavapalayam, Karur, Tamilnadu.



**M.E. / M.Tech. Regulations 2019**

**R2019**



**M. KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113**  
(An Autonomous Institution and Affiliated to Anna University Chennai)

**REGULATIONS 2019 - COMMON TO ALL M.E / M.TECH PROGRAMMES**  
(For the batches of students admitted in to 2019-2020 onwards)

The Regulations presented here are common to all the M.E. / M.Tech. Degree Programmes of M.Kumarasamy College of Engineering (MKCE). This Regulations contains the course structure, and the provisions governing the policies and procedures of imparting instructions of courses, conduction of examinations, evaluation and certification of students' performance, leading to the above said Degree Programme(s). This set of Regulations may evolve and get revised/refined or updated or modified or changed through appropriate approvals from the Academic Council of the college from time to time.

**PRELIMINARY DEFINITIONS AND NOMENCLATURE**

In the following regulations, unless the context otherwise requires.

- 1.1 "Programme" means Post graduate Degree Programme that is M.E / M.Tech Degree Programme.
- 1.2 "Branch" means, specialization or discipline of M.E. / M.Tech. degree programmes like Manufacturing Engineering, Computer Science and Engineerig, etc.,
- 1.3 "Course" means, a theory subject or practical subject offered in a semester, like Applied Mathematics, Advanced Welding, etc.
- 1.4 "Head of the Department" means Head of the Department concern.
- 1.5 "Head of the Institution" means the Principal of the Campus.
- 1.6 "Controller of Examinations" means the authority of the College who is responsible for all activities of the End Semester Examinations.
- 1.7 "Odd Semester" means, the Semester that is typically from June to November.
- 1.8 "Even Semester" means, the Semester that is typically from December to May.
- 1.9 "University" means ANNA UNIVERSITY.



**M. KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113**  
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## 2 MODES OF STUDY AND ADMISSION REQUIREMENTS

### 2.1 MODES OF STUDY

Candidates admitted under 'Full-Time' should be available in the College / Institution 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 candidates 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 PG programme.

### 2.2 ADMISSION REQUIREMENTS:

2.2.1 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.

2.2.2 TANCA releases the updated criteria during the admissions every academic year. Admission shall be offered only to the candidates who possess the qualification prescribed against each programme.

Any other relevant qualification which is not prescribed against each programme shall be considered for equivalence by the committee constituted for the purpose. Admission to such degrees shall be offered only after obtaining equivalence to such degrees.

## 3. DURATION OF THE PROGRAMME

**3.1 Minimum Duration:** The programme will extend over a period of 2 years leading to the full time Degree of Master of Engineering of the Anna University, an academic year being divided into two semesters. Each semester shall normally consist of 90 working days.

**Maximum Duration:** The candidate shall complete all the passing requirements of the degree programme within a maximum period of 4 Years, these periods reckoned from the commencement of the semester to which the candidate was first admitted to the programme.

### 3.2 Medium of Instruction

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



**M. KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113**  
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**4. STRUCTURE OF PROGRAMME**

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**4.1 Curriculum and Syllabus:** It consists of (i) Core Courses (ii) Elective Courses and (iii) Project Work

- The Curriculum and Syllabi shall be approved by the Board of Studies and Academic Council
- • The Programme will also include design projects / seminars / practical's / practical training, if they are specified in the curriculum.
- Every candidate normally will undergo the courses of his / her programme from semester 1 onwards

**4.2. The minimum prescribed credits required for the award of the degree shall be within the limits specified below:**

Programme	Prescribed Credit Range
M.E. / M.Tech.	68 to 75

**4.3 Credit Assignment**

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

Contact period per week	CREDITS
1 Lecture Period	1
1 Tutorial Periods	1
2 Practical Periods (Laboratory / Seminar / Project Work etc.)	1

**4 Project Work**

The project work for M.E. / M.Tech. Programmes consist of Phase-I and Phase-II. The Phase-I is to be undertaken during III semester and Phase-II, which is a continuation of Phase-I is to be undertaken during IV semester.

In case of candidates of M.E. / M.Tech. Programmes not completing Phase-I of project work successfully, the candidates can undertake Phase-I again in the subsequent semester. In such cases the candidates can enroll for Phase-II, only after successful completion of Phase-I

**5. One Credit Courses:**

Students can also opt for industry oriented one credit courses of 15 hours duration which will be offered by experts from industry / other institution / our faculty on specialized topics apart from the prescribed courses of study of the programme. Students can complete such one credit courses during the semester three to five as and when these courses are offered by the Department. However, the grades earned by the students in one credit courses will not be included in the computation of CGPA.



## M. KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113

(An Autonomous Institution and Affiliated to Anna University Chennai)

### 4.6 Self Study Courses

Students may be permitted to credit only one Self Study course with the approval of Head of the Department and Chairman. The Student can opt for Self Study course provided the student does not have current arrears and earns a CGPA of 8.0 and above

The Department may offer self study courses. The purpose of the course is to permit the student to study a course / a topic of the student's choice. The student shall study on their own under the guidance of a faculty member. No formal lectures need be delivered. The syllabus of the course and mode of assessments shall be approved by the Head of the Institution and also formal approval of the course by the Academic body. Preferably, one faculty member approved by the Head of the Department shall be responsible for the periodic monitoring and evaluation of the course before the commencement of the semester

### 4.7 Industrial Training / Internship

The students may undergo Industrial training for a period as specified in the curriculum during summer / winter vacation. In this case the training has to be undergone continuously for the entire period.

The students may undergo Internship at Research organization / University (after due approval from the Department Consultative Committee) for the period prescribed in the curriculum during summer / winter vacation, in lieu of Industrial training

## REQUIREMENTS FOR COMPLETION OF THE SEMESTER

5.1 A student will be qualified to appear for End Semester Examinations only if

a) He / She has satisfied the attendance requirements as per the norms given below:

i) Shall secure not less than 75% attendance

ii) If a student secures attendance 65% or more but less than 75% in the current semester due to medical reasons (hospitalization / accident / specific illness) or due to participation in the College / University / State / National / International level Sports events with prior permission from the Chairman, Sports Board and Head of the Department concerned, the student shall be given exemption from the prescribed attendance requirement and the student shall be permitted to appear for the End Semester Examinations

b) his/her progress has been satisfactory and

c) His/her conduct has been satisfactory



**M. KUMARASAMY COLLEGE OF ENGINEERING, KARUR - 639 113**  
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- d) Students who do not satisfy the requirement that they shall undergo 40 hours of NSS/NCC/YRC/Yoga/Sports and Games activities (vide section 4.1) during the first year will not be permitted to appear for the final examinations of fifth and further semesters. Such students are permitted to appear for the final examinations of semester 5 onwards only after completing the above mentioned requirements.
- e) A student shall normally be permitted to appear for End Semester Examinations of the course if the student has satisfied the attendance requirements (vide clause 6.1(i)) and has registered for examination in those courses of that semester by paying the prescribed fee.
- f) 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/marks.

**PROVISION FOR WITHDRAWAL FROM END SEMESTER EXAMINATION**

A candidate, may for valid reasons and on prior application, be granted permission to withdraw from appearing for the examination of any one course or consecutive examinations of more than one course in any one semester examination, if he/she does not have any history of arrears at the time of request for withdrawal.

Such withdrawal shall be permitted only once during the entire period of study of the degree programme.

Withdrawal application is valid only if it is made within 10 Days before the commencement of the examination in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations.

Notwithstanding the requirement of mandatory TEN days notice, applications for Withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.

Withdrawal shall not be considered as an appearance for the eligibility of a candidate for First Class with Distinction. This provision is not applicable to those who seek withdrawal during Final semester.



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Withdrawal from the End semester examination is NOT applicable to arrears subjects of previous semesters

The candidate shall reappear for the withdrawn courses during the examination conducted in the subsequent semester.

**TEMPORARY BREAK OF STUDY FROM THE PROGRAMME**

A student is not normally permitted to temporarily break the study. However, if a student intends to temporarily discontinue the programme in the middle for valid reasons (such as accident or hospitalization due to prolonged ill health) and to rejoin the programme in a later respective semester, he/she shall apply to the Head of the Institution through the concerned Head of the department and stating the reasons therefore.

A student is permitted to rejoin the programme at the respective semester as and when it is offered after the break subject to the approval of Commissioner of Technical Education and Anna University, Chennai and shall be governed by rules and regulations in force at the time of rejoining.

The duration specified for passing all the courses for the purpose of classification shall be increased by the period of such break of study permitted.

The total period for completion of the programme reckoned from the commencement of the semester to which the student was first admitted shall not exceed the maximum period specified in (vide clause 5.2) irrespective of the period of break of study in order that he/she may be qualified for the award of the degree.

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

**SYSTEM OF EXAMINATION**

8.1 Performance of Student in each course of study shall be evaluated based on (i) Continuous Internal Assessment throughout the semester and (ii) End Semester Examination.



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8.2 Each course, both Theory, Theory cum Practical and Practical shall be evaluated for a maximum of 100 marks.

8.3 The End Semester Examination (Theory and Laboratory) shall ordinarily be conducted between October to December during the odd semesters and between April to June during the even semesters.

8.4 The End Semester Examination for project work shall consist of evaluation of the final report submitted by the student by an Internal examiner followed by a viva-voce examination conducted separately for each student by a committee consisting of the External examiner and an Internal examiner.

8.5 For the End Semester Examination in both theory and practical courses including project work the internal and external examiners shall be appointed by COE (Autonomous).

## 9. PROCEDURE FOR AWARDING MARKS FOR ASSESSMENTS

Each course shall be evaluated for a maximum of 100 marks as shown below:

S.No	Category of Course	Continuous Assessments	End Semester Examinations
1.	Theory Courses	50	50
2.	Laboratory Courses	50	50
3.	Project Work (Phase I)	100	100
4.	Project Work (Phase II)	200	200

### 9.1 Assessment for Theory Courses

Scheme of evaluation details for Theory courses is given in Annexure - A.

The award of marks for continuous assessment shall be normally based on three tests, assignment, objective test, technical presentation etc. However, the pattern for awarding the continuous assessment marks may be designed by the course coordinators based on the nature of the course and is to be approved by the Academic Council.





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### 9.2 Assessment for Laboratory Courses

Scheme of Internal Assessment and End Semester Examination for Laboratory Courses, is given in Annexure -A.

Every laboratory exercise / experiment shall be evaluated based on the student performance during the laboratory class and the student's records maintained. There shall be assessment test.

The student who fails in the laboratory course shall register for the same in the subsequent semester and repeat the laboratory course again.

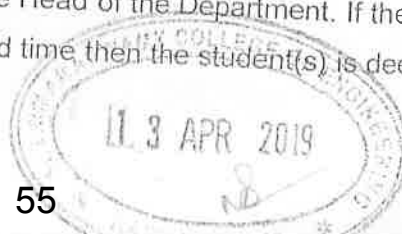
### 9.3 Assessment for Project Work

Scheme of Internal Assessment and End Semester Examination for Project work, is given in Annexure -A.

Project work may be assigned to a single student or to a group of students not exceeding 4 per group. The student shall make presentation on the progress made before the committee. The Head of the Department shall constitute a review committee for each programme. There shall be a minimum of three members in the review committee. The project Guide will be one of the members of the Review Committee.

The student(s) is expected to submit the project report on or before the last working day of the semester. The End Semester examination for project work shall consist of evaluation of the final project report submitted by the student or students of the project group by an external examiner followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the guide of the project group and an internal examiner. The Head of the Department with the approval of the Chairman of the Faculty shall appoint Internal and External Examiners for the End Semester Examinations of the Project Work.

9.3.1 If the project report is not submitted on or before the specified deadline, an extension of time up to a maximum limit of 15 days may be given for the submission of project work with due approval obtained from the Head of the Department. If the project report is not submitted even beyond the extended time then the student(s) is deemed to



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have failed in the Project Work. The failed student(s) shall register for the same in the subsequent semester, when offered next, and repeat the project work again.

**10. REQUIREMENTS FOR APPEARING FOR END SEMESTER EXAMINATIONS**

A candidate shall normally be permitted to appear for the End Semester Examinations of any semester commencing from I semester if he/she has satisfied the semester completion requirements (subject to Clause 6) and has registered for examination in all courses of the semester. Registration is mandatory for semester examinations as well as arrear examinations, failing which the candidate will not be permitted to move to the higher semester. A candidate who has already appeared for any subject in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades /marks.

**11. PASSING REQUIREMENTS**

11.1 A candidate who secures not less than 50% of total marks prescribed for the courses with a minimum of 50% of the marks prescribed for the End-Semester Examinations in both theory and Laboratory courses (including Project work), shall be declared to have passed the Examination.

11.1.1 If a candidate fails to secure a pass in a particular course, it is mandatory that he/she shall register and reappear for the examination in that course during the subsequent semester when examination is conducted in that course; he/she should continue to register and reappear for the examinations in the failed subjects till he / she secures a pass.

11.1.2 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 secure a pass. However, from the 3<sup>rd</sup> attempt onwards if a candidate fails to obtain pass marks (Internal Assessment + End Semester Examination) is the passing requirement shall be as follows:



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The candidate should secure 50% and above the maximum marks prescribed for course in the End Semester Examinations alone irrespective of Internal Assessment marks obtained.

### 12. AWARD OF LETTER GRADES

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

Range of % of Total Marks	91-100	81-90	71-80	61-70	57-60	50-56	0-49
Letter Grade	S	A	B	C	D	E	F
Grade Point	10	9	8	7	6	5	0

"F" denotes Reappearance is required for the examination in the course.  
(This grade will figure both in Marks Sheet as well as in Result Sheet)

"W" denotes withdrawal from the course.

The Grade "SA" denotes Shortage of Attendance and hence prevention from writing the end semester examination.

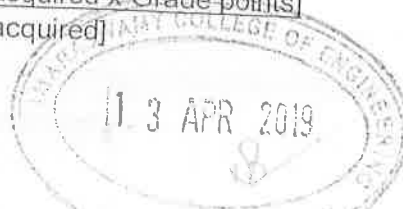
The Grade "SA" and "W" will figure only in the Result Sheets.

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

- The list of courses enrolled during the semester and the grade 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 for courses acquired and the corresponding points to the sum of the number of credits for the courses acquired in the semester.

$$\text{GPA} = \frac{\text{Sum of [Credits acquired x Grade points]}}{\text{Sum of [Credits acquired]}}$$



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

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

Where

$C_i$  - is the Credits assigned to the course

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

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

### 13. REVALUATION

A candidate can apply for revaluation of his/her semester examination answer paper in a theory course, within a week from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Institution. A candidate can apply for revaluation of answer scripts for not exceeding 5 subjects at a time. The Controller of Examination will arrange for the revaluation and the results will be intimated to the candidate concerned through the Head of the Institution. Revaluation is not permitted for practical courses, seminars, practical training and for project work.

### 14. ELIGIBILITY FOR THE AWARD OF THE DEGREE

A student shall be declared to be eligible for the award of the Degree if he/she has

- Successfully gained the required number of total credits as specified in the Curriculum corresponding to his/her Programme within the stipulated time.
- No disciplinary action is pending against him/her.





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- Successfully completed the field visit / Industrial training, if any, as prescribed in the curriculum.
- Successfully completed any additional courses prescribed by the Board of Studies and Approved by Academic Council, whenever any candidate is readmitted under revised Regulations.

### 15. AWARD OF DEGREE

#### 15.1 FIRST CLASS WITH DISTINCTION

A student who satisfies the following conditions shall be declared to have passed the examination in first class with distinction.

- Should have passed the End Semester Examination in all the courses of all the semesters in his/her first appearance within 3 years, which includes authorized break of study of one year and Withdrawal from examination 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.

#### 15.2 FIRST CLASS

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

- Should have passed the End Semester Examination in all the courses of all eight semesters within 3 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 7.00.

#### 15.3 SECOND CLASS

All other students (not covered in clauses 15.1 and 15.2) who qualify for the award of the degree shall be declared to have passed the examination in second class.





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**15.4 RANK**

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

**16. DISCIPLINE**

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 University / College. The Principal shall constitute a disciplinary committee consisting of Principal, Two Heads of Department of which one should be from the faculty of the student, to enquire into acts of indiscipline and notify the University about the disciplinary action recommended for approval. If a student indulges in malpractice in any of the End Semester Examinations he / she shall be liable for punitive action as decided by the malpractice committee from time to time.

**17. REVISION OF REGULATION AND CURRICULUM**

These Regulations may get revised / amended from time to time and on approval by the Academic Council and the Governing Body shall come in to force and shall be binding on the students, faculty, and all authorities of the Institute and others concerned.

**18. SPECIAL CASES**

In the event of any clarification in the interpretation of the above rules and regulation they shall be referred to the standing committee. The standing committee will offer suitable interpretations / clarification / amendments required for special case on such references and get them ratified in the next meeting of the Academic Council. The decision of the Academic Council is final.

