

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE – 638 052
(Autonomous Institution affiliated to Anna University of Technology, Coimbatore)

2011 REGULATIONS for M.E. / M.Tech. Degree Programme

These regulations are applicable to all candidates admitted into M.E./M.Tech. Degree Programmes (2 year full time and 3 year part time) from the academic year 2011-2012.

1. DEFINITIONS

In these Regulations, unless otherwise specified:

- i) “University” means ANNA UNIVERSITY OF TECHNOLOGY, Coimbatore
- ii) “Programme” means Degree Programme that is M.E./M.Tech. Degree Programme
- iii) “Branch” means specialization or discipline of M.E./M.Tech. Degree Programme, like Construction Engineering and Management, Engineering Design, etc.
- iv) “Course” means a theory or practical subject that is normally studied in a semester, like Mathematics, Physics, etc.
- v) “Credit” means a numerical value allocated to course units to describe the students’ workload required per week.
- vi) “Grade” means the letter grade assigned to each course based on the marks’ range specified
- vii) “Grade point” means a numerical value (0 to10) allocated based on the grade assigned to each course

2. CONDITIONS FOR ADMISSION

2.1 Candidates seeking admission to the first semester of the M.E./ M.Tech. Degree programme shall be required to have passed an appropriate degree examination of Anna University of Technology, Coimbatore as specified under eligible qualification for admission vide clause 3 or any other examination from any recognized university or authority accepted by the Academic Council of Anna University of Technology, Coimbatore as equivalent thereto. The candidates shall also be required to satisfy the conditions of admission thereto prescribed by the Anna University of Technology, Coimbatore and Directorate of Technical Education, Chennai from time to time.

2.2 Part-time candidates should satisfy other conditions regarding experience, sponsorship, place of work, etc., that may be prescribed by the Anna University of Technology, Coimbatore from time to time in addition to satisfying the requirements as per clause 2.1 above.

3. PROGRAMMES AND BRANCHES OF STUDY

The following programmes of study approved by Anna University of Technology, Coimbatore and All India Council for Technical Education, New Delhi are offered by the college. The eligible qualifications for admission to the respective programmes are also listed below:

Department	Programme	Eligible qualification
CIVIL ENGINEERING	M.E - Construction Engineering and Management	B.E. / B. Tech. Civil Engg.
MECHANICAL ENGINEERING	ME - Engineering Design	B.E./B.Tech. (Mechanical Engg. / Automobile Engg. / Production Engg. / Manufacturing Engg. / Industrial Engg. / Mechatronics Engg.)
	M.E - CAD/CAM	B.E./B.Tech (Mechanical Engg. / Automobile Engg. / Manufacturing Engg. / Production Engg. / Industrial Engg. / Mechatronics Engg.)
ELECTRICAL AND ELECTRONICS ENGINEERING	ME - Applied Electronics	B.E./B.Tech. (Electrical and Electronics Engg. / Electronics and Communication Engg. / Electronics Engg. / Electronics and Instrumentation Engg. / Instrumentation and Control Engg. / Instrumentation Engg./ Biomedical Engg. / Biomedical Instrumentation Engg)
	ME – Power Electronics and Drives	B.E./B.Tech. (Electrical and Electronics Engg. / Electronics and Communication Engg. / Electronics Engg. / Electronics and Instrumentation Engg. / Instrumentation and Control Engg. / Instrumentation Engg.)
ELECTRONICS AND COMMUNICATION ENGINEERING	ME - VLSI Design	B.E./B.Tech. (Electrical and Electronics Engg. / Electronics and Communication Engg. / Electronics Engg. / Electronics and Instrumentation Engg. / Instrumentation and Control Engg. / Instrumentation Engg./ Computer Science and Engg. / Information Technology)
	ME – Communication Systems	B.E./B.Tech. (Electronics and Communication Engg. / Electronics Engg)

Department	Programme	Eligible qualification
COMPUTER SCIENCE AND ENGINEERING	ME - Computer Science and Engineering	B.E./B.Tech. (Electrical and Electronics Engg. / Electronics and Communication Engg. / Electronics Engg. / Information Technology / Computer Science and Engg. / Electronics and Instrumentation Engg. / Instrumentation and Control Engg. / Instrumentation Engg. (or) M.Sc (2 years / 5 years) Software Engg./ IT/ Computer Tech./ CS / Computer Electronics (or) M.C.A
MECHATRONICS ENGINEERING	ME - Mechatronics Engineering	B.E./B.Tech.– (Mechanical Engg. / Automobile Engg. / Production Engg. / Electronics Engg. / Electronics and Communication Engg. / Instrumentation Engg. / Electrical Engg. / Electrical and Electronics Engg. / Instrumentation and Control Engg. / Electronics and Instrumentation Engg. / Aeronautical Engg. / Computer Science and Engg. / Mechatronics Engg./ Manufacturing Engg.)
CHEMICAL ENGINEERING	M.Tech - Chemical Engineering	B.E./B.Tech (Chemical Engg./Electro-Chemical Engg./ Pharmaceutical Tech./Petroleum Engg. /Petroleum Tech./ Food Tech./Food Processing Engg. / Petrochemicals /Petroleum Refining & Petro Chemicals)
ELECTRONICS AND INSTRUMENTATION ENGINEERING	ME - Control and Instrumentation Engineering	B.E./B.Tech. (Electrical and Electronics Engg. / Electronics and Communication Engg. / Electronics Engg. / Electronics and Instrumentation Engg./ Instrumentation and Control Engg. / Instrumentation Engg./ Biomedical Engg. / Biomedical Instrumentation Engg)
INFORMATION TECHNOLOGY	ME- Computer and Communication Engineering	B.E./B.Tech. (Electronics and Communication Engg. / Electronics Engg./ Computer Science and Engg. / Information Technology)

4. STRUCTURE OF PROGRAMMES

4.1 Every Programme shall comprise both theory and practical courses in each semester as given in the respective curricula with well-defined syllabi approved by Board of Studies and the Academic Council of the College.

Every candidate shall be required to opt for all the core courses of his/her specialization compulsorily as a requirement for completion of the programme.

4.2 There shall be a minimum number of core courses and sufficient number of elective courses.

4.3 The blend of different courses shall be so designed that the candidate, at the end of the Programme, would have been trained not only in his / her relevant professional field but also would have developed as a socially conscious human being.

4.4 The medium of instruction, examinations and project report shall be English.

5. DURATION OF THE PROGRAMME

A candidate is normally expected to complete the M.E./M.Tech. Degree Programme in **4** consecutive semesters, but in any case not more than **8** semesters in the case of regular candidates and in **6** consecutive semesters, but in any case not more than **10** semesters in the case of part time candidates. Each semester shall consist of minimum of **90** working days or **450** hours.

6. SYSTEM OF EVALUATION

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

6.2 Each course, both theory and practical (other than project work) shall be evaluated for a maximum of 100 marks. The project work Phase-I shall be evaluated for a maximum of 100 marks and Phase-II shall be evaluated for a maximum of 200 marks.

6.2.1 For all theory and practical courses (other than project work), the continuous assessment shall be 50 marks while the end semester examination shall be 50 marks. The end semester examinations shall be conducted for 100 marks, reduced to 50 marks and rounded off to the nearest integer.

6.2.2 Every candidate shall be required to undertake suitable project works Phase-I and Phase-II in an industrial/research organisation or in the department in consultation with the Head of the Department and the Dean of the School. Also he/she shall be required to undergo three reviews in each of the relevant semesters, and present about the progress of the project work. In case of project work at industrial/ research organization, the project work shall be jointly supervised by a faculty supervisor and an expert from the organization. The continuous assessment shall be evaluated for 50 marks for phase-I and 100 marks for Phase-II. The project report and final viva voce shall be evaluated for 50 marks for phase-I and 100 marks for phase-II.

6.3 The end semester examination for theory courses shall be for a duration of 3 hours and shall be conducted during November / December and April / May every year.

6.4 The project work shall be evaluated based on the project report submitted by the candidate and Viva-voce examination conducted by a committee consisting of an external examiner, internal examiner and the supervisor of the candidate.

6.4.1 The project report shall be evaluated for 25 marks and final Viva-voce shall be evaluated for 25 marks for phase-I. The project report shall be evaluated for 50 marks and final Viva-voce shall be evaluated for 50 marks for phase-II.

6.5 Examiners for setting end semester examination question papers for theory courses, evaluating end semester examination answer scripts, conducting practical examinations and evaluating project works shall be appointed by the Controller of Examinations after obtaining approval from the Chairman, Academic Council of the College.

7. PROCEDURE FOR AWARDING MARKS FOR CONTINUOUS ASSESSMENT

For all theory courses, the continuous assessment shall be for a maximum of 50 marks, for all practical courses, the assessment shall be for a maximum of 100 marks and for the project work, the assessment shall be for a maximum of 50 marks for phase-I and 100 marks for phase-II. The assessment shall be done as per the procedure laid down below:

7.1 CONTINUOUS ASSESSMENT FOR THEORY COURSES

7.1.1 The award of marks shall be based on three tests, assignments and comprehension. Three tests shall be conducted as per the schedule given in the academic calendar. The tests shall be conducted for a maximum of 50 marks each and converted to a maximum of 10 marks each.

7.1.2 The apportionment of continuous assessment marks shall be as follows:

Sl.No.	Type	Max. Marks	Remarks
1.	Test - I	10	Absolute Mark System
	Test – II	10	
	Test - III	10	
2.	Assignments (The assignments shall be more of application in nature)	10	Totally 2 assignments, shall be submitted before Test – II and Test - III 1 st assignment: 5 marks 2 nd assignment: 5 marks
3.	Comprehension	10	To be assessed by the Course Teacher.
Total		50	

7.1.3 A revision test covering the entire syllabus shall be conducted for those candidates who were absent with valid reasons for any of the three tests. The marks obtained shall be considered against the test absented. The candidates absenting for more than one test shall forego the marks accordingly.

7.2 CONTINUOUS ASSESSMENT FOR PRACTICAL COURSES

One model practical examination shall be conducted at the end of the semester. The continuous assessment marks shall be awarded as follows:

- i) Conduct of experiment, observation result, viva-voce and record writing for all practical sessions put together: 75 marks
- ii) Model examination: 25 marks

7.3 CONTINUOUS ASSESSMENT FOR PROJECT WORK

The Head of the Department shall constitute review committees for project work phase-I and for phase-II. There shall be three assessments (each 100 marks) during the semester by the review committee. The candidate shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three assessments shall be reduced for 50 marks for phase-I and 100 marks for phase-II and rounded off to the nearest integer.

8. REQUIREMENTS FOR COMPLETION OF A SEMESTER

8.1 A candidate who has fulfilled the following conditions shall be deemed to have satisfied the requirements for completion of a semester and permitted to appear for the examinations of that semester.

8.1.1 Ideally every candidate is expected to attend all classes and secure 100% attendance. However, in order to allow for certain unavoidable reasons, a candidate is expected to have at least 80% attendance of the total hours taught.

8.1.2 In addition a candidate is expected to have at least 70% attendance in each course.

8.1.3 A candidate shall be deemed to have completed the requirements of study of any semester only if he/she has acquired not less than 80% of attendance in the semester concerned as a whole.

8.1.4 A candidate who could not secure 80% attendance but has secured 70% and above in the current semester due to medical reasons (hospitalization / accident / specific illness) shall be permitted to appear for the current semester examinations with the approval of the Chairman Academic Council on payment of condonation fee fixed by the authorities from time to time. Medical certificate needs to be submitted along with leave application. A candidate shall be able to avail this facility only twice during the entire course of study.

8.1.5 Candidate's progress is satisfactory.

8.1.6 Candidate's conduct is satisfactory.

8.2 Candidates who do not complete the semester as per clause 8.1 shall not be permitted to appear for the examinations at the end of the semester and not be permitted to go to next semester. They have to repeat the incomplete semester in the next academic year.

8.3 If a candidate fails to submit the report / dissertation on project work on or before the specified deadline, he/she is deemed to have failed in the Project Work / Dissertation and shall re-enroll the same in subsequent semester. This applies to both Phase-I and Phase-II. A candidate is permitted to register and do Phase-II only after passing Phase-I.

8.4 Every candidate shall, based on his/her project work, send a paper for publication in a journal or a conference in which full papers are published after usual review. A copy of the full paper sent accordingly and proof for having sent the paper shall be produced at the time of evaluation.

9. REQUIREMENTS FOR APPEARING FOR END SEMESTER EXAMINATION

A candidate shall normally be permitted to appear for end semester examination of the current semester if he / she has satisfied the semester completion requirements as per clause 8.1, and has registered for examination in all courses of that semester. Registration is mandatory for current semester examinations as well as for arrear examinations failing which the candidate will not be permitted to move on to the higher semester.

10. PROVISION FOR WITHDRAWAL FROM EXAMINATIONS

10.1 A candidate may, for valid reasons, be granted permission to withdraw from appearing for the examination in any course or courses of only one semester examination during the entire duration of the degree programme. Application for withdrawal is permitted only once.

10.2 Withdrawal application shall be valid only if the candidate is otherwise eligible to write the examination and is made to the Principal prior to the last examination of that semester recommended by the Head of the Department and the Dean of the School.

10.3 Withdrawal shall not be treated as an attempt for the purpose of classification.

11. TEMPORARY BREAK OF STUDY FROM A PROGRAMME

11.1 A candidate is normally not permitted to temporarily break the study. However, if a candidate 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 semester, he/she shall apply in advance to the Principal, through the Head of the Department and the Dean of the School, stating the reasons therefor, in any case, not later than the last date for registering for that semester examination.

11.2 The candidate permitted to rejoin the programme after break shall be governed by the rules and regulations in force at the time of rejoining.

11.3 The duration specified for passing all the courses, for the purpose of classification vide clause 17.1 and 17.2 shall be increased by the period of such break of study permitted.

- 11.4** The total period of completion of the programme reckoned from the commencement of the semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5 irrespective of the period of break of study in order to qualify for the award of the degree.
- 11.5** If any candidate is detained for want of requisite attendance or due to disciplinary action, the period spent in that semester shall not be considered as permitted 'Break of Study'.

12. PASSING REQUIREMENTS

- 12.1** A candidate who secures not less than 50% of total marks (including continuous assessment and end semester examination) prescribed for the course with a minimum of 50% of the marks prescribed for the end semester examination in both theory and practical courses (including project work), shall be declared to have passed the examination.
- 12.2** 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 next semester when examination is conducted in that course. He / she should continue to register and reappear for the examination till he / she secures a 'pass'. However, the continuous assessment marks obtained by the candidate in the first attempt shall be retained and considered valid for subsequent attempts also.

13. REVALUATION OF ANSWER SCRIPTS

- 13.1** A candidate shall apply for revaluation of his / her semester examination answer script in a theory course within 2 weeks from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations. The Controller of Examinations shall arrange for the revaluation and the results shall be intimated to the candidate concerned. Revaluation is not permitted for practical courses and project work
- 13.2** A candidate shall apply for the Photocopy of his/her end semester examination answer script on payment of the prescribed fee through proper application to the Controller of Examinations after the revaluation results are announced to get himself / herself convinced of the valuation/revaluation.

14. SUPPLEMENTARY EXAMINATION

If a candidate fails to clear all courses after the announcement of final end semester results, he / she shall not be allowed to take up supplementary examinations. He/she shall register and reappear for the examination till he/she secures pass in all courses within the time frame specified vide clause 16.

15. AWARD OF GRADES

Range of percentage of total marks	Letter grade	Grade Point
90 to 100	S	10
80 to 89	A	9
70 to 79	B	8
60 to 69	C	7
55 to 59	D	6
50 to 54	E	5
< 50	RA	0
Withdrawal	W	-
Absent	AB	-

“RA” denotes to reappear

“W” denotes withdrawal from the end semester examination as per clause 10

The Grade Point Average (GPA) is calculated using the formula:

$$\text{GPA} = \frac{\sum \text{Course credits} \times \text{Grade points for all courses in the specific semester}}{\sum \text{Course credits for all courses in the specific semester}}$$

The Cumulative Grade Point Average (CGPA) is calculated from first semester to final semester using the formula

$$\text{CGPA} = \frac{\sum \text{Course credits} \times \text{Grade points for all courses in all the semesters so far}}{\sum \text{Course credits for all courses in all the semesters so far}}$$

The GPA and CGPA are computed only for the candidates with a pass in all the courses.

The GPA and CGPA indicate the academic performance of a candidate at the end of a semester and at the end of successive semesters respectively.

A grade sheet for each semester shall be issued containing Grade obtained in each course, GPA and CGPA.

16. ELIGIBILITY FOR THE AWARD OF DEGREE

A candidate shall be declared to be eligible for the award of the M.E./M.Tech. degree provided the candidate has successfully completed the course requirements and passed all the prescribed examinations in all the 4 semesters (6 semesters in case of part-time) within a maximum period of 8 semesters in case of regular candidate (10 semesters in case of part time candidate) reckoned from the commencement of the first semester to which the candidate was admitted.

17. CLASSIFICATION OF THE DEGREE AWARDED

17.1 A candidate who qualifies for the award of the degree (vide clause 16) after having passed all the courses of study of all the 4 semesters (6 semesters in case of part

time) at the first opportunity within 4 consecutive semesters (6 consecutive semesters in case of part time) excluding permitted break of study period after the commencement of his/her study and securing a CGPA of 8.50 and above shall be declared to have passed in **First Class with Distinction**.

17.2 A candidate who qualifies for the award of the degree (vide clause 16) after having passed all the courses of all the 4 semesters within a maximum period of 6 consecutive semesters (8 consecutive semesters in case of part time) excluding permitted break of study period after commencement of his/her study and securing a CGPA of 6.50 and above shall be declared to have passed in **First Class**.

17.3 All other candidates (not covered in clauses 17.1 and 17.2) who qualify for the award of the degree (vide clause 16) shall be declared to have passed the examination in **Second Class**.

17.4 A candidate who is absent for semester examination in a course / project work after having registered for the same shall be considered to have appeared for that examination for the purpose of classification.

18. MALPRACTICES IN TESTS AND EXAMINATIONS

If a candidate indulges in malpractice in any of the tests and end semester examinations, he/she shall be liable for punitive action as per the examination rules prescribed by the college from time to time. The current rules of the examinations are given below:

RULES OF THE EXAMINATIONS

A candidate is permitted to use geometric tools, non-programmable calculators and approved tables and data books only during the theory and the practical examinations. No other material / gadget (including cell phone) should be brought inside the examination hall.

A candidate should neither possess / refer any forbidden material in any form nor should seek/obtain assistance in any form from any person / source towards answering the questions during the examinations. He/she should not assist other candidates in any form towards answering the questions during the examinations. The candidate should not reveal his / her identity in any form in the answer scripts. The candidate should not indulge in canvassing either directly or indirectly to award more than deserving marks in the examinations. The candidate should maintain discipline and decorum during the examinations.

Violation of the above rules in any form during the examinations will attract punishment ranging from levying fine to permanently debarring the candidate from continuing his / her studies as given below.

S.No.	Nature of Malpractice	Punishment
1	Appeal by the candidate in the answer script to show mercy by way of awarding more than deserving marks.	Fine of Rs. 1000/- per subject.
2	The candidate writing his / her name in the answer script.	
3	The candidate writing his / her registration number in places other than specified in the answer script.	

4	Any special marking in the answer script by the candidate.	
5	The candidate communicating with neighbouring candidate orally or non-verbally; the candidate causing suspicious movement of his / her body.	
6	Irrelevant writing by the candidate in the answer script	
7	The candidate either possessing the question paper of another candidate or passing his question paper to another candidate with the question paper containing no additional writing on it	
8	The candidate facilitating the other candidate(s) to copy from his / her answer script.	Invalidating the examination of the particular subject written by the candidate.
9	The candidate possessing any incriminating material(s) (whether used or not). For example:- Written or printed materials, bits of papers containing written information, writings on scale, calculator, handkerchief, dress, part of the body, Hall Ticket etc.	Invalidating the examinations of the subject concerned and all the theory and the practical subjects of the current semester registered by the candidate.
10	The candidate possessing cell phone(s) / programmable calculator(s)/any other electronic storage device(s) (whether used or not).	Further the candidate is not considered for revaluation of answer scripts of the arrears-subjects.
11	The candidate possessing the question paper of another candidate with additional writing on it.	If the candidate has registered for arrears-subjects only, invalidating the examinations of all the arrears-subjects registered by the candidate.
12	The candidate passing his / her question paper to another candidate with additional writing on it	
13	The candidate passing incriminating materials brought into the examination hall in any medium (hard/soft) to other candidate(s).	
14	The candidate copying from neighbouring candidate.	
15	Vulgar / offensive writings by the candidate in the answer script.	Invalidating the examinations of all the theory and practical subjects of the current semester and all the arrears-subjects registered by the candidate.
16	The candidate possessing the answer script of another candidate.	
17	The candidate passing his / her answer script to another candidate.	
18	Appeal by the candidate in the answer script coupled with a promise of any form of consideration.	
19	The candidate misbehaving in the examination hall.	Invalidating the examinations of all the theory and practical subjects of the current

20	Involved in anyone or more of the malpractices of serial no.9 to 18 for the second or subsequent times.	semester and all the arrear-subjects registered by the candidate; additional punishment: i) if the candidate has not completed the programme, he / she is debarred from continuing his / her studies for one year i.e., for two subsequent semesters. However the student is permitted to appear for the examination in all the arrears-subjects up to the last semester during the debarred period. ii) if the candidate has completed the programme, he / she is prevented from writing the examinations of the arrears-subjects for two subsequent semesters.
21	Cases of Impersonation	A) Handing over the impersonator to the police with a complaint to take appropriate action against the person involved in the impersonation by the Chief Supt. B) If a student of this College is found to impersonate a 'bonafide student', the impersonating student is debarred from continuing his / her studies and writing the examinations permanently . He / she is not eligible for any further admission to any programme of the College. C) Debarring the 'bonafide student' for whom the impersonation was done from continuing his / her studies and writing the examinations permanently . He/she is not eligible for any further admission to any programme of the College.

19. REVISION OF REGULATIONS AND CURRICULUM

The Academic Council of the college may from time to time revise, amend or change the regulations, scheme of examinations and syllabi, if found necessary.

Any condition which has not been covered in the above regulations may be referred to the Academic Council for a decision.

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