



KARPAGAM UNIVERSITY
Karpagam Academy of Higher Education
(Established Under Section 3 of UGC Act 1956)

FACULTY OF ENGINEERING
POST – GRADUATE PROGRAMME
(M. E. / M. Tech.)
REGULAR

REGULATIONS
(2011)

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FACULTY OF ENGINEERING
POST-GRADUATE PROGRAMME
REGULAR PROGRAMME
REGULATIONS 2011
CREDIT SYSTEM

These Regulations are effective from the academic year 2011-2012 and applicable to the students admitted to M. E. / M. Tech. programmes during the academic year 2011 - 2012 and onwards.

1 PROGRAMMES OFFERED, MODES OF STUDY AND ADMISSION REQUIREMENTS

1.1 P.G. PROGRAMMES OFFERED:

M.E and M.Tech

The various P.G. Programmes offered by the University are listed in **Table 1**.

1.2 MODE OF STUDY:

1.2.1 Full-Time:

Candidates admitted under 'Full-Time' should be available in the University during the complete working hours for curricular, co-curricular and extra-curricular activities assigned to them.

1.2.2 Conversion from full time mode of study to part time mode is not permitted

1.2.3 Conversion from one programme to another programme is not permitted.

1.3 ADMISSION REQUIREMENTS:

- 1.3.1 Candidates for admission to the first semester of the Master's Degree Programme shall be required to have passed an appropriate Degree Examination of any University accepted by the Board of Management of the University as equivalent thereto. Admission shall be offered only to the candidates who possess the qualification prescribed against each course, given in the **Table-2**.
- 1.3.2 Notwithstanding the qualifying examination the candidate might have passed, he/she shall have a minimum level of proficiency in the appropriate programme / courses as prescribed by the Board of Management of the University from time to time.
- 1.3.3 Eligibility conditions for admission such as class obtained, number of attempts in qualifying examination and physical fitness will be as prescribed by the Board of Management of the University from time to time.

2 DURATION OF THE PROGRAMMES:

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

Programme	Min. No. of Semesters	Max. No. of Semesters
M.E. / M. Tech. (Full-Time)	4	8

- 2.2 Each semester shall normally consist of 90 working days or 450 hours for full-time mode of study. The Dean shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.
- 2.3 The prescribed credits required for the award of the degree shall be within the limits specified below.

PROGRAMME	PRESCRIBED CREDIT RANGE
M. E. / M.Tech.	65 to 75

2.4 Credits will be assigned to the courses for different modes of study as given below:

No. of credit per lecture hour period per week	: 1
No. of credit for 3 periods of laboratory per week	: 1
No. of credit for 2 periods of seminar per week	: 1
No. of credit for 3 periods of project work per week	: 1

3 STRUCTURE OF THE PROGRAMME

3.1 Every Programme will have a curriculum and syllabi consisting of core courses, elective courses and project work.

The Programme may also include seminar / practicals / practical training, if they are specified in the curriculum.

3.1.1 The electives from the curriculum are to be chosen with the approval of the Head of the Department.

A candidate may be permitted by the Head of the Departments to choose a maximum of 2 electives from among elective subjects listed under various PG programmes offered by other departments of the Faculty of Engineering, provided the HOD offering those courses approves such request subject to 'no' clash to lecture classes of both the department in the Time Table.

3.1.2 The medium of instruction for all courses, examinations, seminar presentations and project/thesis/dissertation reports shall be in English.

3.2 MAXIMUM MARKS

3.2.1 The maximum marks assigned to different courses shall be as given below:

Each of the theory and practical courses (excluding project work) shall carry maximum of 100 marks of which 40 marks will be through Continuous Internal Assessment.

3.3 PROJECT WORK

The project work for M. E. / M. Tech. consists of Phase – I and

Phase – II. 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.

4 EVALUATION OF PROJECT WORK

The evaluation of Project Work for Phase I & Phase II shall be done independently in the respective semesters and marks shall be allotted as per the weightages given in Clause 12.2.

There shall be two assessments, by a review committee, during each of the project semesters for M. E. / M. Tech. The Head of the Department shall constitute the review committee for each branch of study.

- 4.1 The project work shall be evaluated for a maximum of 400 marks of which 160 (40 + 120) marks will be through internal assessment.
- 4.2 The Project Report prepared according to approved guidelines and duly signed by the supervisor(s) and the Head of the Department shall be submitted to the CoE through the HOD and the Dean.
- 4.3 The evaluation of the Project work Phase – I (M. E. / M. Tech.) will be purely internal. During CIA of Phase – I, there will be a Viva-Voce Examination by a team consisting of the supervisor, an internal examiner (other than the supervisor) and an external examiner. The evaluation of the Project work Phase - II (M. E. / M. Tech.) will be based on the project report submitted in Phase - II semester and a Viva-Voce Examination by a team consisting of the supervisor, an Internal Examiner, and an External Examiner for each programme. The External examiner shall be appointed by the University for Phase – II evaluation.
- 4.3.1 If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-enroll for the same in a subsequent semester.

If a candidate fails in the viva-voce examinations of Phase-I he/she has to resubmit the Project Report within 30 days from the date of declaration of the results. If he / she fails in the viva-voce examination of Phase-II of Project work, he/she shall resubmit the Project report within 60 days from the date of declaration of the results. For this purpose the same Internal and External examiner shall evaluate the resubmitted report.

- 4.3.2 Every candidate shall send a paper for publication in a journal or a conference/ apply for a patent. An acknowledgement from the Supervisor for having communicated to the journal or conference/ application of patent shall be attached to the report of the project work. Such acknowledgements shall be sent to the Controller of Examination along with the evaluation marks by the team of examiners without which the thesis shall not be accepted.
- 4.3.3 A copy of the approved project report after the successful completion of viva examinations shall be kept in the library of the institution.
- 4.3.4 A student who has passed all the courses prescribed in the curriculum for the award of the degree shall not be permitted to re-enroll to improve his/her GPA in a course or the CGPA.

5 REQUIREMENTS FOR COMPLETION OF THE SEMESTER

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

- 5.1 Ideally every student is expected to attend all classes and secure 100% attendance. However, in order to allow for certain unavoidable reasons, the student is expected to attend at least 75% of the classes.
- 5.2 However, **a candidate who has secured attendance less than 75 % in the current semester due to any reason shall not be permitted to appear for the current semester examinations.** But he/she will be permitted to appear for his/her arrear examinations, if any and he/she has to re do the same semester.

6 FACULTY ADVISOR

To help the students in planning their courses of study and for general advice on the academic programme, the Head of the Department will allot a certain number of students to a teacher of the Department who shall function as Faculty Advisor for those students throughout their period of study. Such Faculty Advisors shall advise the students and monitor the courses undergone by the students, check the attendance and progress of the students attached to him/her and counsel them periodically. The Faculty Advisor shall display in the Notice Board the cumulative attendance particulars of each student periodically (once in 30 days) to enable the students to know their attendance details to satisfy the clause 5 of this regulation.

7 CLASS COMMITTEE

7.1. Every class shall have a class committee consisting of teachers of the class concerned, student representatives [two boys and two girls] and the concerned Head of the Department. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching-learning process. The functions of the class committee include

- Solving problems experienced by students in the class room and in the laboratories.
- Clarifying the regulations of the degree programme and the details of rules therein particularly clause 4 and 5 which should be displayed on department Notice-Board.
- Informing the student representatives the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
- Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing / project work / seminar etc.) the breakup of marks for each experiment / exercise /module of work, should be clearly discussed in the class committee meeting and informed to the students.

- Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
 - Identifying the weak students, if any and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students.
- 7.2 The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Dean.
- 7.3 The class committee shall be constituted within the first week of each semester.
- 7.4 At least 4 student representatives (usually 2 boys and 2 girls) shall be included in the class committee.
- 7.5 The Chairperson of the Class Committee may convene the meeting of the class committee.
- 7.6 The Dean may participate in any Class Committee of the institution.
- 7.7 The Chairperson is required to prepare the minutes of every meeting, submit the same to Dean within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the Management, the same shall be brought to the notice of the Registrar by the HOD through Dean.
- 7.8 The first meeting of the Class Committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and

suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

8. COURSE COMMITTEE FOR COMMON COURSES

Each common theory course offered to more than one discipline or group, shall have a “Course Committee” comprising all the teachers handling the common course with one of them nominated as Course Coordinator. The nomination of the Course Coordinator shall be made by the Dean depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The ‘Course Committee’ shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Where ever feasible, the Course Committee may also prepare a common question paper for the Internal Assessment test(s).

9. PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

9.1 Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the Department periodically (at least three times in a semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the Department shall sign with date after due verification. At the end of the semester, the record should be verified by the Dean who will keep this document in safe custody (for five years). Records of attendance and assessment of both current and previous semesters shall be submitted for Inspection to the team appointed by the University/any other approved body.

9.2 **Continuous Internal Assessment (CIA):** The performance of students in each subject will be continuously assessed by the respective teachers as per the guidelines given below:

THEORY COURSES:

S. No.	CATEGORY	MAXIMUM MARKS
1.	Assignment *	5
2.	Attendance	5
3.	Test – I #	15
4.	Test – II #	15
Continuous Internal Assessment : TOTAL		40

* The Assignments should be evaluated and marks should be entered in Automation software on or before 60th working day of the semester.

The test scripts should be evaluated and marks should be entered in Automation software on or before 4th working day after the last test.

PATTERN OF TEST QUESTION PAPER:

INSTRUCTION	REMARKS
Maximum Marks	50 marks for all Tests
Duration	2 Hours
Part - A	10 Two mark Questions (10 x 2 = 20 Marks) Question No. 1 to 10, covering 4 questions from each unit.
Part- B	5 Six mark Questions (5 x 6 = 30 Marks) Question No. 11 to 17, covering the two and half units of the syllabus; out of seven questions, candidate has to attend any five questions.

PRACTICAL COURSES:

S. No	CATEGORY	MAXIMUM MARKS
1.	Attendance	5
2.	Observation work	5
3.	Record work	5
4.	Model examination	15
5.	Viva – voce [Comprehensive]	10
Continuous Internal Assessment: TOTAL		40

Every practical Exercise / Experiment shall be evaluated based on the conduct of Exercise/ Experiment and records maintained.

9.3 ATTENDANCE

Marks Distribution for Attendance

S. No.	Attendance %	Marks
1	80 % and above	5
2	Less than 80 %	0

10. REQUIREMENTS FOR APPEARING FOR UNIVERSITY EXAMINATION

A candidate shall normally be permitted to appear for the University Examination of any semester commencing from I semester if he/she has satisfied the semester completion requirements (Subject to Clause 5) and has registered for examination in all courses of the semester. Registration is mandatory for Semester Examinations as well as Arrears Examinations failing which the candidate will not be permitted to move to the higher semester. A candidate already appeared for subjects or any subject in a semester and passed the examination is not entitled to reappear in the same subject or subjects of the semester for improvement of grades / marks.

11. UNIVERSITY EXAMINATIONS

11.1 End Semester Examination (ESE): End Semester Examination will be held at the end of each semester for each subject, which consists of 100 marks, later scaled down to 60 marks.

PATTERN OF ESE QUESTION PAPER:

INSTRUCTION	REMARKS
Maximum Marks	100 marks for all Semester Examinations.
Duration	3 Hours
Part - A	15 Two mark Questions (15 x 2 = 30 Marks) Question No. 1 to 15, covering 3 questions from each unit (Answer all questions)

INSTRUCTION	REMARKS
Part- B	5 Fourteen mark Questions (5 x 14 = 70 Marks.) Question No. 16 to 20 will be ‘ either-or ’ type, covering all five units of the syllabus; i.e., Question No. 16: Unit - I, either 16 (a) or 16 (b), Question No. 17: Unit - II, either 17 (a) or 17 (b) Question No. 18: Unit - III, either 18 (a) or 18 (b), Question No. 19: Unit - IV, either 19 (a) or 19 (b), Question No. 20: Unit - V, either 20 (a) or 20 (b) to be answered.

11.2 Project work : The total marks for project work is 400 marks. The internal marks maximum is 160 and the End Semester Exam mark maximum is 240. For phase – I, there is no external examination and the internal marks is 100. For phase – II, the internal mark is 60. The overall passing minimum is 50 %.

12. PASSING REQUIREMENTS

12.1 Passing minimum: There is no passing minimum for CIA. The passing minimum for End Semester Examination is 30 (i.e. out of 60 marks). The overall passing minimum for examination is 50 out of 100 marks (Sum of his/her score in internal and external examination).

12.2 If the candidate fails to secure a pass in a particular course as per clause 11.1, it is mandatory that candidate shall register and reappear for the examination in that course during the subsequent semester when examination is conducted in that course. Further the candidate should continue to register and reappear for the examination till a **pass** is secured in End Semester Examination of such arrear subjects.

The Continuous Internal Assessment marks obtained by the candidate in the first appearance shall be retained by the Office of the Controller of Examinations and considered valid for all subsequent attempts till the candidate secure a pass.

13. 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:

Letter grade	Marks Range	Grade Point	Description
O	90 - 100	10	OUTSTANDING
A	80-89	9	EXCELLENT
B	70-79	8	VERY GOOD
C	60-69	7	GOOD
D	50-59	6	AVERAGE
RA	<50		REAPPEARANCE

13.2 GRADE SHEET

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

- i. The list of courses enrolled during the semester and the grade scored.
- ii. The Grade Point Average (**GPA**) for the semester and
- iii. The Cumulative Grade Point Average (**CGPA**) of all courses enrolled from first semester onwards.

GPA is the ratio of the sum of the products of the number of credits (**C**) of courses enrolled and the points corresponding to the grades (**GP**) scored in those courses, taken for all the courses, to the sum of the number of credits of all the courses in the semester to the sum of the credits of all courses registered.

$$\text{GPA} = \frac{\text{Sum of [C * GP]}}{\text{Sum of C}}$$

CGPA will be calculated in a similar manner, considering all the courses enrolled from first semester. “**RA**” grade will be excluded for calculating **GPA** and **CGPA**.

13.3 Whenever students, having arrear subjects, appear for the end semester examination during which there are no regular batch of students writing the same subjects, then, the letter grades for the arrears subjects shall be awarded based on the range of marks.

13.4 REVALUATION

A candidate can apply for revaluation of his/her semester examination answer paper 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 through the Head of the Department and Dean. **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 Department and Dean. 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 period.
- No disciplinary action is pending against him/her.
- Successfully completed the field visit / industrial training, if any, as prescribed in the curriculum.
- The award of the degree must be approved by the Board of Management.

15. CLASSIFICATION OF THE DEGREE AWARDED

15.1 A candidate who qualifies for the award of the Degree (vide clause 13) having passed the examination in all the courses in his/her first appearance within the specified minimum number of semesters securing a **CGPA of not less than 7** shall be declared to have passed the examination in **First Class with Distinction.**

- 15.2 A candidate who qualifies for the award of the Degree (vide clause 13) having passed the examination in all the courses within the specified minimum number of semesters plus one year (two semesters), securing a **CGPA of not less than 6.00** shall be declared to have passed the examination in **First Class**. For this purpose the withdrawal from examination (vide clause 15) will not be construed as an appearance. Further, the authorized break of study (vide clause 16) will not be counted for the purpose of classification.
- 15.3 All other candidates (not covered in clauses 14.1 and 14.2) who qualify for the award of the degree (vide Clause 14) shall be declared to have passed the examination in **Second Class**.
- 15.4 A candidate who is absent in semester examination in a course / project work after having enrolled for the same shall be considered to have appeared in that examination for the purpose of classification.

16. PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION

- 16.1 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 a semester examination.
- 16.2 Such withdrawal shall be permitted only once during the entire period of study of the degree programme.
- 16.3 Withdrawal application is valid only if it is made within 10 days prior to the commencement of the examination in that course or courses and recommended by the Head of the Department and Dean and approved by the Registrar.
- 16.3.1 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.

- 16.4 Withdrawal shall not be construed 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 IV semester.
- 16.5 Withdrawal from the End semester examination is **NOT** applicable to arrears subjects of previous semesters.
- 16.6 The candidate shall reappear for the withdrawn courses during the examination conducted in the subsequent semester.

17. PROVISION FOR AUTHORISED BREAK OF STUDY

- 17.1 **Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme.** However, in extraordinary situation the candidate may apply for additional break of study not exceeding another one year by paying prescribed fee for break of study. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Registrar, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Department and Dean stating the reasons therefore and the probable date of rejoining the programme.
- 17.2 The candidate thus permitted to rejoin the Programme after the break shall be governed by the Curriculum and Regulations in force at the time of rejoining. Such candidates may have to do additional courses as per the Regulations in force at that period of time.
- 17.3 The authorized break of study (for a maximum of one year) will not be counted for the duration specified for passing all the courses for the purpose of classification. (vide Clause 16). However, additional break of study granted will be counted for the purpose of classification.

17.4 The total period for completion of the Programme reckoned from, the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 4.1 irrespective of the period of break of study (vide clause 17.3) in order that he/she may be eligible for the award of the degree.

17.5 If any student is detained for want of requisite attendance, progress and good conduct, the period spent in that semester shall not be considered as permitted 'Break of Study' or 'Withdrawal' (Clause 16 and 17.3) is not applicable for this case.

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 prestige of the University. The erring students will be referred to the disciplinary committee constituted by the University, to enquire into acts of indiscipline and recommend the University about the disciplinary action to be taken. If a student indulges in malpractice in any of the University / Internal Examination he / she shall be liable for punitive action as prescribed by the university from time to time.

19.REVISION OF REGULATION AND CURRICULUM

The University may from time to time revise, amend or change the Regulations, Scheme of Examinations and syllabi if found necessary.

Table – 1

M.E. / M.TECH. DEGREE (FULL TIME) PROGRAMMES

Sl. No.	Name of the Programme
DEPARTMENT OF CIVIL ENGINEERING	
1.	M. E. Construction Engineering and Management
2.	M. E. Structural Engineering
3.	M. E. Water Resources and Environmental Engineering
DEPARTMENT OF MECHANICAL ENGINEERING	
4.	M. E. Aeronautical Engineering
5.	M. E. Engineering Design
6.	M. E. Manufacturing Engineering
7.	M.E. Robotics and Automation
8.	M.E. Mechatronics
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING	
9.	M. E. Power Electronics and Drives
10.	M. E. Power Systems Engineering
11.	M. E. Renewable Energy Engineering and Management
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING	
12.	M. E. Wireless Communications
13.	M. E. VLSI Design
14.	M. E. Embedded Systems
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING	
15.	M. E. Computer Science and Engineering
16.	M. Tech. Information Technology
17.	M. Tech. Information Security
DEPARTMENT OF BIOENGINEERING	
18.	M. Tech. Biomechanics
19.	M. Tech. Bio-Technology

Table – 2
M.E./M. TECH. PROGRAMMES
QUALIFICATIONS FOR ADMISSION

S. No.	Degree and branch of study	Qualification for Admission
1.	Construction Engineering and Management	B.E. / B.Tech. – Civil Engineering B.E. / B.Tech. – Civil and Structural Engineering
2.	M. E. Structural Engineering	B.E. / B. Tech. - Civil Engineering B.E./ B. Tech. - Civil and Structural Engineering
3.	M. E. Water Resources and Environmental Engineering	B.E. / B. Tech. Civil Engineering B.E./B.Tech. - Environmental Engineering
4.	M.E. Aeronautical Engineering	B.E. / B. Tech. – Mechanical, Production, Manufacturing, Industrial Engg., Mechatronics, Automobile, Mechanical and Production and Marine Engineering
5.	M. E. Engineering Design	B.E. / B. Tech. – Mechanical, Production, Manufacturing, Industrial Engg., Mechatronics, Automobile, Mechanical and Production and Marine Engineering
6.	M. E. Manufacturing Engineering	B.E. / B.Tech. – Mechanical, Industrial Engg., Metallurgy, Mechatronics, Automobile, Production, Mechanical and Production and Manufacturing Engg.

S. No.	Degree and branch of study	Qualification for Admission
7.	M. E. Robotics and Automation	B. E. / B. Tech. – Mechanical, Industrial Engg., Mechatronics, Automobile, Production, Mechanical and Production and Manufacturing Engg.
8.	M.E. Mechatronics	B.E. Mechatronics, B.E.Mechanical, B.E. Electronics and Communication
9.	M. E. Power Electronics and Drives	B. E. / B. Tech. - Electrical Engineering/ Electrical and Electronics/ Electronics and Communication/ Electronics and Instrumentation/ Control systems
10.	M. E. Power Systems Engineering	B. E. / B. Tech. - Electrical/ Electrical and Electronics Engineering
11.	M. E. Renewable Energy Engineering and Management	B. E. / B. Tech. - Electrical/ Electrical and Electronics Engineering, Mechanical, Industrial Engg., Mechatronics, Automobile, Production, Mechanical and Production and Manufacturing Engg..
12.	M. E. Wireless Communications	B. E. / B. Tech. - Electronics and Communication Engineering
13.	M. E. VLSI Design	B. E. / B. Tech. - Electrical Engineering/ Electrical and Electronics/ Electronics and Communication Engineering/ CSE

S. No.	Degree and branch of study	Qualification for Admission
14.	M. E. Embedded Systems	B. E. / B. Tech. Electrical Engineering/ Electrical and Electronics/ Electronics and Communication Engineering/ CSE / M.Sc. (Electronics), M.Sc. (Applied Electronics) 5 years integrated Programme
15.	M. E. Computer Science and Engineering	B. E. / B. Tech. Electrical Engineering/ Electrical and Electronics/ Electronics and Communication Engineering/ CSE/ EIE/ ICE/ IT/ MCA/ M.Sc.(CS/IT/CT/Multimedia Technology)
16.	M.Tech Information Technology	B.E. Computer Science, IT, ECE, Electrical and Electronics, Electronics and Instrumentation /B.Tech. IT
17.	M. Technology Information Security	B. E. / B. Tech. Electrical Engineering/ Electrical and Electronics/ Electronics and Communication Engineering/ CSE/ EIE/ ICE/ IT/ MCA/ M.Sc.(CS/IT/CT/Multimedia Technology)
18.	M. Tech. Biomechanics	B. E. / B. Tech. Bio-Technology, Mechanical, M.B.B.S., PG Physical Education
19.	M. Tech. Bio-Technology	B. E. / B. Tech. Bio-Technology