



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

FACULTY OF ENGINEERING
DEGREE OF BACHELOR OF ENGINEERING
/ TECHNOLOGY (B. E. / B. Tech)
PART TIME PROGRAMME

REGULATIONS
(2011)

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CREDIT SYSTEM

These regulations are effective from the academic year 2011-2012 and are applicable to all candidates admitted into B. E. / B. Tech. degree programmes during the Academic year 2011-2012 and onwards.

1. ADMISSION

- 1.1 Candidates seeking admission to the first semester of B. E / B. Tech. (Part-Time - Seven Semester) degree programme should possess the Diploma in Engineering / Technology in the relevant branch of specialization awarded by the State Board of Technical Education, Tamil Nadu or any other authority accepted by the Board of Management of the University.
- 1.2 Eligibility conditions such as class, marks, number of attempts shall be as prescribed by the Board of Management of the University from time to time.
- 1.3 Notwithstanding the qualifying examination the candidate might have passed, the candidate shall also write an entrance examination designed to test the proficiency of the candidate in Mathematics, Physics, Chemistry and relevant branch subjects prescribed for the Diploma programmes offered by the Directorate of Technical Education, Tamil Nadu.

1.4 Shall satisfy the conditions of physical fitness as prescribed by the Board of Management of the University.

2. BRANCHES, PROGRAMMES AND ELIGIBILITY FOR ADMISSION

The branches of study approved by the University and the qualifications for admission are given below.

B.E. (Part-time – 7 Semesters) Programmes, Branches and Qualification for Admission

S. No.	Degree and Branch	Qualification for Admission
1	B.E. Civil Engineering	Diploma in Civil Engg./ Sanitary Engg. / Civil and Rural Engg.
2	B.E. Computer science and Engineering	Diploma in Electronics Engineering / Electronics and Communication Engineering / Electrical Engineering / Instrument Technology / Electronics with specialization in Instrumentation / Electrical and Electronics Engineering/ Information Technology/ Computer Science/Instrumentation and control Engineering.
3	B.E. Mechanical Engineering.	Diploma in Mechanical Engineering / Metallurgy / Automobile Engineering / Mechanical and Rural Engineering / Machine Tool Maintenance and Repairs / Machine Design and Drafting / Refrigeration and Air-conditioning / Production Engineering / Tool and Die Design.

S. No.	Degree and Branch	Qualification for Admission
4	B.E. Electrical and Electronics Engineering	Diploma in Electrical Engineering/ Electronics Engineering / Electrical and Electronics Engineering / Electronics and Communication Engineering/ Information Technology/ Computer Science/ Instrumentation and Control Engineering.
5	B.E. Electronics and Communications Engineering	Diploma in Electronics Engineering / Electronics and Communication Engineering / Electrical Engineering / Instrument Technology / Electronics with specialization in Instrumentation / Electrical and Electronics Engineering/ Information Technology/ Computer Science/ Instrumentation and Control Engineering
6	B. Tech. Textile Technology	Diploma in Textile Technology.

3. MODE OF STUDY

3.1 **Part-Time:** In this mode of study, the candidates are required to attend classes only on the specified contact hours.

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

3.3 Conversion from one programme to another is not permitted.

4. STRUCTURE OF THE PROGRAMMES

- 4.1 Every Programme shall have a curriculum comprising of both theory and practical courses as detailed in the respective curriculum with well-defined syllabi approved by the University. There shall be a certain minimum number of core courses and sufficient number of elective courses that can be opted by the student. The blend of different courses shall be so designed that the student, 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.
- 4.2 Each semester curriculum shall normally have a blend of lecture courses not exceeding 5 and practical courses not exceeding 2. However, the total number of courses per semester shall not exceed 6.
- 4.3 The medium of instruction, examinations and project report shall be in English.
- 4.4 Each course is normally assigned certain number of credits.
- 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
- 4.5 The prescribed credits required for the award of the degree shall be within the limits specified below.

PROGRAMME	PRESCRIBED CREDIT RANGE
B. E. / B.Tech.	120 - 150

5. DURATION OF THE PROGRAMME

A student is ordinarily expected to complete the B. E. / B. Tech (Part Time – Seven Semester) Degree Programme in seven consecutive semesters; **but in any case not more than 14 semesters in the case of male and not more than 18 semesters in the case of female.** Each

semester shall normally consist of 90 working days or 270 hours. 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.

6. 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.

6.1 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.

6.2 However, a candidate who has secured attendance between 65% and 74 % in the current semester due to medical reasons (Hospitalization / Accident / Specific illness) or due to participation in College/ University / State/National / International level sports events with prior permission from the Registrar shall be given exemption from the prescribed attendance requirements and he/she shall be permitted to appear for the current semester examinations.

6.3 However, a candidate who has secured attendance between 50% and 64 % 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 continue the programme.

6.4 However, a candidate who has secured attendance less than 50 % 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.

7. 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 attach 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. If necessary, the faculty advisor may display the cumulative attendance particulars in the department notice board.

8. PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

8.1 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.

8.2 **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.

8.3 ATTENDANCE

Marks Distribution for Attendance

S. No.	Attendance %	Marks
1	75 % and above	5
2	Less than 75 %	0

9. 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.

10. UNIVERSITY EXAMINATIONS

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)
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. PASSING REQUIREMENTS

11.1 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).

11.2 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.

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:

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

12.2 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**.

12.3 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.

12.4 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.

13. 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.

- The award of the degree must be approved by the Board of Management.

14. CLASSIFICATION OF THE DEGREE AWARDED

- 14.1 A candidate who qualifies for the award of the Degree (vide clause 12) 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 9** shall be declared to have passed the examination in **First Class with Distinction**.
- 14.2 A candidate who qualifies for the award of the Degree (vide clause 12) 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 7** shall be declared to have passed the examination in **First Class**. For this purpose the withdrawal from examination (vide clause 14) will not be construed as an appearance. Further, the authorized break of study (vide clause 15) will not be counted for the purpose of classification.
- 14.3 All other candidates (not covered in clauses 13.1 and 13.2) who qualify for the award of the degree (vide Clause 12) shall be declared to have passed the examination in **Second Class**.
- 14.4 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.

15. PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION

- 15.1 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.
- 15.2 Such withdrawal shall be permitted only once during the entire period of study of the degree programme.
- 15.3 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.

15.3.1 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.

15.4 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 VII semester.

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

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

16. PROVISION FOR AUTHORISED BREAK OF STUDY

16.1 **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.

16.2 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.

16.3 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 13). However, additional break of study granted will be counted for the purpose of classification.

16.4 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 irrespective of the period of break of study (vide clause 15.3) in order that he/she may be eligible for the award of the degree.

16.5 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 14 and 15.3) is not applicable for this case.

17. DISCIPLINE

Every student is required to observe disciplined and decorous behavior both inside and outside the University and not to indulge in any activity which will tend to bring down the prestige of the University. The erring student 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.

18. 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.