

ANNA UNIVERSITY TIRUCHIRAPPALLI
Tiruchirappalli – 620 024

REGULATIONS 2008
CREDIT SYSTEM

MASTER DEGREE OF ENGINEERING / TECHNOLOGY

Effective from the academic year 2008-2009 and applicable to the students admitted to Anna University Tiruchirappalli and all Engineering Colleges (**Non-Autonomous**) affiliated to Anna University Tiruchirappalli.

P.G.PROGRAMMES

The following Regulations will be applicable **to all Engineering Colleges (Non-Autonomous) affiliated to Anna University Tiruchirappalli.**

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

- i. **“Programme”** means Post Graduate Degree Programme. e.g. M.E., M.Tech. Degree Programme
- ii. **“Specialisation”** means the discipline of the Post Graduate Degree Programme like Structural Engineering, Engineering Design, etc.
- iii. **“Course”** means a Theory or Practical subject that is normally studied in a semester, like Applied Mathematics, Advanced Thermodynamics, High Voltage Laboratory., etc.
- iv. **“Director, Academic Courses”** means the authority of Anna University Tiruchirappalli who is responsible for all academic activities of the University for implementation of relevant rules of this Regulations.
- v. **“Head of the Department” / “Head of the Institution”** means Head of the concerned Department of the University or the Principal of a College / Institution who is responsible for all academic activities of that College / Institution and responsible for implementation of relevant rules of these Regulations.
- vi. **“Chairman”** means Head of the Faculty.
- vii. **“University”** means ANNA UNIVERSITY TIRUCHIRAPPALLI.

2. PROGRAMMES OFFERED, MODES OF STUDY AND ADMISSION REQUIREMENTS

2.1 P.G. PROGRAMMES OFFERED:

M.E.
M.Tech.
M.Pharm.
M.C.A.
M.B.A
M.Sc (2 years / 5 years programme)

The various P.G. Programmes offered in the University Departments and affiliated engineering colleges of Anna University Tiruchirappalli, are listed in **Table I**.

A candidate may be offered one of the programmes listed in the Table I and admitted in the college, where the candidate desires to join, subject to the satisfaction of other conditions.

2.2. MODES OF STUDY

2.2.1 Full -Time

Candidates admitted under Full-Time should be available in the College / Institution / University during the complete working hours (From Morning to Evening on full time basis) for curricular, co-curricular and extra-curricular activities assigned to them.

The Full-Time candidate 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 above rules will result in the cancellation of admission to the PG programme.

2.2.2 Part -Time – Day Time

This mode of study is applicable to those candidates admitted under **sponsored category (Teacher candidates)**. The candidates are required to attend classes along with Full -Time students (half a day either in the forenoon or afternoon), for the required number of courses and complete the courses within three years

2.2.3 Part-Time – Evening

In this mode of study, separate classes are conducted in the evenings.

2.2.4 Conversion from one mode of study to the other is not permitted.

2.3 ADMISSION REQUIREMENTS

2.3.1 Candidates for admission to the first semester of the Post Graduate Degree Programme shall be required to have passed an appropriate Degree Examination of Anna University as specified under qualification for admission as per the Tamil Nadu Common Admission (TANCA) criteria as indicated in **Table-II**

Note: TANCA releases updated criteria during the admissions of every academic year.

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

2.3.2 However, the Syndicate of the University may decide to restrict admission in any particular year to candidates having a subset of qualifications prescribed in **Table-II**.

2.3.3 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 Syndicate of Anna University Tiruchirappalli from time to time.

2.3.4 Eligibility conditions for admission such as class obtained, number of attempts in qualifying examination and physical fitness will be as prescribed by the Syndicate of Anna University Tiruchirappalli from time to time.

2.3.5 All Part-Time candidates should satisfy other conditions regarding experience, Sponsorship etc. that may be prescribed by the Syndicate from time to time.

2.3.6 A candidate seeking admission to part-time mode of study shall have his / her permanent place of work within a distance of 65kms from the study campus of the college.

3. DURATION OF THE PROGRAMME

- 3.1 The minimum and maximum period for completion of the Post Graduate Degree Programmes are given below:

Programme	Min. No. of Semesters	Max. No. of Semesters
M.E. / M.Tech. (Full-Time)	4	8
M.E. (Part Time)	6	12
M.C.A. (Full Time)	6	12
M.Pharm (Full Time)	4	8
M.Sc (Full Time) (2 Years)	4	8
M.Sc (Full Time) (5 Years)	10	20

- 3.2 Each semester shall normally consist of 90 working days or 450 hours or 540 periods of 50 minutes duration for full-time mode of study or 270 hours for part-time mode of study. The Head of the Department /Head of the Institution 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. End-Semester Examination will be scheduled after the last working day of the semester.

4. STRUCTURE OF THE PROGRAMME

- 4.1 The Post Graduate Degree Programmes will have a curriculum and syllabi consisting of
- Core courses
 - Elective courses
 - Project work

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

- 4.1.1 The Curriculum and Syllabi of all the P.G. Programmes shall be approved by the Academic Council of Anna University Tiruchirappalli.
- 4.1.2. The number of credits to be earned for the successful completion of the Programme shall be as specified in the Curriculum of the respective specialization of the P.G. Programmes.

4.1.3 The Curriculum of P.G. Programmes shall be so designed that the prescribed credits required for the award of the degree shall be within the limits specified below: (**Table – III**).

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

PROGRAMME	PRESCRIBED CREDITS
M.C.A.	118
M.B.A*.	90

PROGRAMME	PRESCRIBED CREDIT RANGE
M.Sc. (2 Years)	75 – 80
M.Sc. (5 Years)	210 -215

* Separate regulations is followed for the programme of M.B.A

4.1.4 Credits will be assigned to the courses for different modes of study as given below. The following will apply to all modes of P.G. Programmes.

- One credit for each lecture period designed per week
- One credit for each tutorial period designed per week
- One credit for each seminar session / practical session of two periods designed per week.

4.1.5. Four weeks of practical training in any industrial / research laboratory correspond to one credit, and is applicable to all modes of study.

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

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

4.3 Project Work

4.3.1 Project work shall be carried out under the supervision of a qualified teacher in the concerned Department.

4.3.2 A candidate may, however, in certain cases, be permitted to work on the project in an Industrial / Research Organization, on the recommendation of research guide, with the approval of the Head of the Department / Head of the Institution. In such cases, the Project work shall be jointly supervised by a guide from the department and by an Engineer / Scientist from the Organization and the student shall be instructed to meet the

- guide periodically and to attend the review committee meetings for evaluating the progress.
- 4.3.3 The project report of M.E. / M.Tech. Programme shall, during Phase I, be evaluated only through continuous assessment. There will be no terminal examination at the end of Phase I.
 - 4.3.4 The project work of M.E. / M.Tech. Programme shall carry a maximum of 600 marks which includes internal assessments of 40 marks for Phase I and 80 marks for Phase II.
 - 4.3.5 The Project work (Phase-II in the case of M.E. / M.Tech.) shall be pursued for a minimum of 16 weeks during the final semester.
 - 4.3.6 The project work of M.C.A. shall carry a maximum of 400 marks of which 80 marks will be through internal assessment.
 - 4.3.7 The project work of M.Pharm shall be pursued for a maximum of 1 year during the second year.
 - 4.3.8 The project work of M.Pharm shall carry 800 marks (Phase I & phase II) of which 100 marks will be through internal assessment in each Phase.
 - 4.3.9 The project work of M.Pharm. shall be evaluated through continuous assessment in both the phases and there will be a terminal examination at the end of Phase I.
 - 4.3.10 The Project Report prepared according to approved guidelines and duly signed by the guide(s) and the Head of the Department shall be submitted to the Head of the Institution (see also clauses 4.4.12 and 4.4.14)
 - 4.3.11 The deadline for submission of final Project Report for M.E. / M.Tech. M.C.A / M.B.A and M.Pharm. Programmes is 60 calendar days from the last working day of the semester in which project / thesis / dissertation is done. However, the phase-I of the project work in the case of M.E / M.Tech / M.Pharm shall be submitted on or before the last working day of the previous Semester.
 - 4.3.12 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-register for the same in a subsequent semester. This applies to phase-I and phase-II in the case of M.E / M.Tech. / M.C.A and M.Pharm.
 - 4.3.13. Every candidate doing M.E. / M.Tech/ M.Pharm. 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. An acknowledgement for having communicated to the Journal or conference shall be attached to the report of the Project work. Such acknowledgements shall be sent to the University along with the evaluation marks by the team of examiners without which the marks shall not be accepted.

- 4.3.14. A copy of the approved project report shall be kept in the library of the college / Institution
- 4.3.15. 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 marks in a course or the aggregate marks.
- 4.3.16. The medium of instruction, examination, seminar and project / thesis / dissertation reports will be in English.

4.4. Minimum Credit requirements to do the project

Minimum Credits shall be as follows

Programme	Minimum number of credits to be earned
M.E. / M.Tech/ M.Pharm	24 for (Phase – I)
MCA	70
M.Sc. (2 Years)	50
M.Sc. (5 Years)	140

- 4.4.1. If the candidate has not earned the requisite minimum credits, he / she has to complete the arrears (at least to the extent of earning the minimum credits specified) and then enroll for the project (Phase – I) work in the subsequent semester.

4.5. Maximum Marks for Theory and Practical Courses

- 4.5.1 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 20 marks will be through internal assessment.

- 4.5.2 The Practical Training or Industrial attachment shall carry 100 marks and shall be evaluated through internal assessment. At the end of practical training or industrial attachment, the candidate shall submit a certificate from the organization where he/she has undergone training and also a brief report. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a Departmental Committee constituted by the Head of the Institution. Certificates submitted by the students shall be attached to the mark list sent by the Head of the Institution.

5. FACULTY ADVISER

To help the students in planning their courses of study and for general advice on the academic programmes, the Head of the Department will attach a certain number of students to a teacher of the Department who shall function as Faculty Adviser for those students throughout their period of study. Such Faculty Adviser shall advise the students and monitor the courses taken by the students, check the attendance and progress of the

students attached to him/her and counsel them periodically. If necessary, the faculty adviser may also discuss with or inform the parents about the progress of the students.

6. CLASS COMMITTEE

6.1 A Class Committee consists of **teachers of the concerned class, student representatives, Faculty Adviser and a chairperson (who is not teaching the class)**. 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

- Resolving academic issues experienced by students in the class room and in the laboratories
- Clarifying the regulations of the degree Programme and the details of rules therein
- Informing the student representatives the academic schedule including the number of assessments, dates of assessments and the syllabus coverage for each assessment
- Informing the student representatives the details of regulations regarding the weightage used for each assessment. In the case of practical courses (laboratory / 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.

6.2 The class committee for a class under a particular programme is normally constituted by the Head of the Department. However, if the students of different programmes are mixed in a class, the class committee is to be constituted by the Head of the Institution

6.3 The class committee shall be constituted on the first working day of any semester or earlier.

6.4 At least 2 student representatives (usually 1 boy and 1 girl) shall be included in the class committee.

6.5 The chairperson of the class committee may invite the Faculty adviser(s) and the Head of the department to the meeting of the class committee.

6.6 The Head of the Department / Head of the Institution may participate in any class committee of the institution as and when deemed necessary.

- 6.7 The chairperson is required to prepare the minutes of every meeting, submit the same to the Head of the Department /Head of the Institution within two days of the meeting and arrange to circulate among the concerned students and teachers. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the management by the Head of the Department / Head of the institution.
- 6.8 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 at suitable intervals. During these meetings the student members, representing the entire class, shall meaningfully interact and express the opinions and suggestions of the class students to improve the effectiveness of the teaching-learning process.

7. COURSE COMMITTEE FOR COMMON COURSES

Each common theory course offered to more than one group of students shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as Course Coordinator. The nomination of the course Coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The 'Course committee' shall meet as often as possible and ensure uniform evaluation of the tests and arrive at a common scheme of evaluation for the tests. Wherever it is feasible, the course committee may also prepare a common question paper for the end semester examinations.

8. PROCEDURES 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 (topics 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 will put his signature and date after due verification. At the end of the semester, the record should be verified by the Head of the Department / Head of the institution who will keep this document in safe custody (for five years). The University or any inspection team appointed by the University may inspect the records of attendance and assessment of both current and previous semesters.

8.2 Theory Courses:

Two or three tests each carrying 100 marks shall be conducted by the Department / Institution. The total marks obtained in all the tests put together shall be reduced to 15 marks and rounded to the nearest integer.

8.3 Practical Courses:

The maximum marks for Internal Assessment shall be 20 in case of Practical courses. Every practical experiment shall be evaluated based on conduct of experiment and records maintained. There shall be at least one mid-semester test. The criteria for arriving at the internal assessment marks of 15 shall be decided (based on the recommendation of the class committee) by the Head of the Department and announced at the beginning of every semester.

8.4 Project Work:

There shall be three assessments (each 100 marks), by a review committee, during each of the project semesters for M.E. / M.Tech./ M.C.A./ M.Pharm Programmes. The student shall make presentation on the progress made before the committee. The Head of the Department / Head of the Institution shall constitute the review committee for each branch of study. The total internal assessment marks for Project work shall be 120 (40 marks for Phase I and 80 marks for Phase II) for M.E. / M.Tech. and rounded to the nearest integer. For M.C.A the internal marks shall be 80 Marks and rounded to the nearest integer. For M.Pharm, the internal marks shall be 100 marks and rounded to the nearest integer.

8.5. Attendance

The remaining 5 marks for attendance shall be awarded as given below:

Theory and Practical courses and Project Work		
76% to 80%	of attendance	- 1 mark
81% to 85%	of attendance	- 2 marks
86% to 90%	of attendance	- 3 marks
91% to 95%	of attendance	- 4 marks
96% to 100%	of attendance	- 5 marks

9. REQUIREMENTS FOR COMPLETION OF A SEMESTER

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

- 9.1 Ideally every student is expected to attend all classes and secure 100% attendance. However, in order to allow for certain unavoidable reasons such as Medical / personal / participation in sports, the student is expected to attend at least 75% of the classes.

Therefore, he/she shall secure not less than 75% of overall attendance in that semester taking into account the total number of periods in all courses put together attended by the candidate as against the total number of periods in all courses offered during that semester.

However, a candidate who could secure attendance between 65% and 74% only 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 HOD/Principal shall be given exemption from the prescribed attendance requirement and **he/she shall be permitted to appear for the current semester examinations**

- 9.2 Candidates who do not complete the semester (as per clause 9.1), will not be permitted to write the **University Examinations** at the end of the semester and not permitted to go to next semester. They are required to repeat the incomplete semester in the next academic year.

10. REQUIREMENTS FOR APPEARING FOR SEMESTER EXAMINATION

A candidate shall normally be permitted to appear for the semester examination of the current semester if he / she has satisfied the semester completion requirements (vide Clause 9) and has registered for examination in all courses of that semester, as well as the arrears of previous semester.

11. UNIVERSITY EXAMINATIONS

- 11.1 There shall be one semester examination of **3 hours** duration in each lecture based course.

The examinations shall ordinarily be conducted between **November and December** during the odd semesters and between **April and May** in the even semester. For the practical examinations (including project work), both internal and external examiners shall be appointed by the University. The maximum marks for each theory and practical course shall be 100 comprising of 20 marks for internal assessment.

The following will be the weightages for different courses.

- i) Lecture or Lecture cum Tutorial based course:

Internal Assessment	-	20 %
University Semester Examination	-	80 %

- ii) Laboratory based courses

Internal Assessment	-	20 %
University Semester Examination	-	80 %

- iii) Project work

Internal Assessment	-	20 %
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Evaluation of Project Report by external examiner	-	30 %
Viva-Voce Examination	-	50 %

- 11.2 The evaluation of the Project work will be based on the project report and a Viva-Voce Examination by a team consisting of the supervisor, a common internal examiner and a common external examiner for each programme. The internal examiner and the external examiner shall be appointed by the University.
- 11.3 The evaluation of the Project work will be based on the project report and a Viva-Voce Examination by a team consisting of the supervisor (**as one of the internal examiner**), a common internal examiner and a common External Examiner for each Programme. The internal examiner and the external examiner shall be appointed by the University.
- 11.4 If a student indulges in malpractice in any of the University / internal examinations he / she shall be liable for punitive action as prescribed by the University from time to time.

12. PASSING REQUIREMENTS

- 12.1 A candidate who secures not less than 50% of total marks (Internal Assessment and End Semester Examinations) prescribed for the courses with a minimum of 50% of the marks prescribed for the end-semester University Examination in both theory and practical courses (including project works) shall be declared to have passed in the Examination.
- 12.2 If a candidates 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 internal assessment marks obtained by the candidate in the first attempt shall be retained and considered valid for all subsequent attempts.**

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 points, will be awarded as per the range of total marks (out of 100) obtained by the candidate, as detailed below following a flexible grading system:

Letter grade	Grade Points	Range of Marks
S	10	90-100
A	9	80-89
B	8	70-79
C	7	60-69
D	6	55-59
E	5	50-54
RA	0	<50
I	0	
W	0	

“RA” denotes **reappearance**, 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 “I” denotes inadequate attendance (as per clause 10) and hence prevented from writing the end semester examination.

The Grade “I” and “W” will figure only in the Result Sheets.

14. GRADE SHEET

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

- The college in which the candidate has studied.
- 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 is the ratio of the sum of the products of the number of credits of courses enrolled and the corresponding points to the sum of the number of credits for the courses acquired.

$$\text{GPA} = \frac{\text{Sum of [Credits acquired} \times \text{Grade Points]}}{\text{Sum of Credits acquired}}$$

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

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

C_i - Credits assigned to the course

GP_i - Point corresponding to the grade obtained for each course

n - Number of all courses successfully cleared during the particular semester in the case of GPA and during all the semesters in case of CGPA .

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 used in the immediately preceding end semester examination in which regular students wrote.

15. ELIGIBILITY FOR THE AWARD OF THE DEGREE

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

- Successfully acquired the required 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 Syndicate.

16. CLASSIFICATION OF THE DEGREE AWARDED

- 16.1. A candidate who qualifies for the award of the Degree (vide clause 15) 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 8.50** shall be declared to have passed the examination in First Class with Distinction. For this purpose the withdrawal from examination (vide clause 18) will not be construed as an appearance. Further, the authorized break of study (vide clause 19.3) will not be counted for the purpose of classification.
- 16.2 A candidate who qualifies for the award of the Degree (vide clause 15) 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 6.50** shall be declared to have passed the examination in **First Class**. For this purpose the authorized break of study (vide clause 19.3) will not be counted for the purpose of classification.
- 16.3 All other candidates (not covered in clauses 16.1 and 16.2) who otherwise qualify for the award of the degree (vide Clause 15) shall be declared to have passed the examination in **Second Class**.
- 16.4 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.

17. 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 Department. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the candidate concerned through the Head of the Department. Revaluation is not permitted for practical courses, seminars, practical training and for project work.

18. PROVISION FOR WITHDRAWAL FROM EXAMINATION

A candidate may, for valid reasons, be granted permission to withdraw from appearing for any course or courses of only one semester examination during the entire duration of the degree programmes. Also only one application for withdrawal is permitted for that semester examination in which withdrawal is sought.

Withdrawal application shall be valid only if the candidate is otherwise eligible to write the examination and if it is made **prior to the examination** in that course or courses and also recommended by the Head of Department and the Head of the Institution.

Withdrawal shall not be construed as appearance for the eligibility of a candidate for the purpose of classification vide clause 15.1.

19. AUTHORIZED BREAK OF STUDY FROM A PROGRAMME

19.1 **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 rejoin the programme in a later semester, permission may be granted based on the merits of the case provided he / she applies to the **Director, Academic Courses** in advance, 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 the Head of the Institution stating the reasons therefor and the probable date of rejoining the programme.

However, if the candidate has not completed the first semester of the programme, Break of Study will be considered only on valid medical reasons.

19.2 The candidate permitted to rejoin the Programme after the break shall be governed by the rules and regulations in force at the time of rejoining. Such candidates may have to do additional courses as prescribed by the **Director, Academic Courses** if the Regulation is changed.

19.3 The authorized break of study will not be counted for the duration specified for passing all the courses for the purpose of classification. (vide Clause 16.1 and 16.2).

19.4 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 3 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree (vide clause 15).

19.5 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' and Clause 19.3 is not applicable for this case.

20. INDUSTRIAL VISIT

Every student is expected to undergo one Industrial visit for a group of theory course offered.

21. DISCIPLINE

Every student is expected to observe discipline and decorum 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. In the event of an act

of indiscipline being reported, 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 inquire into acts of indiscipline and notify the University about the disciplinary action taken. The disciplinary action is subject to review by the University in case the student represents to the University. Any expulsion of the student from the college shall be with prior concurrence of the University.

22. 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, the same brought to the Academic Council and the Syndicate the approval.

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P.G Programmes offered by the University

Table- I

S.No	Faculty	Branch		Total Credits to be Earned for the Award of the Degree
1	Civil Engineering		M.E. Structural Engineering (PT)	73
2	Electrical Engineering		M.E. Power Systems Engineering (PT)	70
3	Mechanical Engineering		M.E. Thermal Engineering (PT)	70
4	Information and Communication Engineering	1	M.E. Computer Science and Engineering (FT & PT)	72
		2	M.E. Software Engineering	70
		3	M.E Pervasive Computing Technologies	74
5	Technology	1	M.Tech. Biotechnology	73
		2	M.Tech. Energy Conservation Management	72
		3	M.Tech. Nanoscience and Technology	72
6	Management Studies		MBA	96
7	Master of Computer Applications		MCA	120
8	Master of Pharmacy	1	M.Pharm. Pharmaceuticals	75
		2	M.Pharm. Pharmaceutical Analysis	74

P.G Programmes offered by the Affiliated Institutions

S.No	Faculty	Branch		Total Credits to be Earned for the Award of the Degree
1	Civil Engineering	1	M.E. Environmental Engineering	66
		2	M.E. Structural Engineering	73
		3	M.Tech. Remote Sensing	71
2	Electrical Engineering	1	M.E. Embedded System Technologies	67
		2	M.E. Power Systems Engineering	70
		3	M.E. Power Electronics and Drives	67
3	Mechanical Engineering	1	M.E. CAD	69
		2	M.E. CAD / CAM	68
		3	M.E. Engineering Design	69
		4	M.E. Industrial Engineering	71
		5	M.E. Industrial Safety Engineering	72
		6	M.E. Manufacturing Engineering	66

		7	M.E. Thermal Engineering	70
4	Information and Communication Engineering	1	M.E. Applied Electronics	72
		2	M.E. Computer and Communication Engineering	71
		3	M.E. Communication Systems	71
		4	M.E. Computer Science and Engineering	72
		5	M.E. Optical Communication	70
		6	M.E. VLSI Design	71
		7	M.Sc Software Engineering (5 Years)	261
		8	M.Sc Information Technology (2 Years)	100
5	Management Studies	1	MBA	96
6	Master of Computer Applications	1	MCA	120

Table – II

P.G. PROGRAMMES OFFERED AND QUALIFICATIONS FOR ADMISSION

S.No.	Name of the Programme	Eligibility
FACULTY OF CIVIL ENGINEERING		
1	M.E. Environmental Engineering	B.E./B.Tech (Civil/ Bio Technology/Industrial Biotech) (Or) B.E./B.Tech. (Mech. / EEE / Geoinformatics) with 3 years experience relevant to the Environmental Engg. Field (Or) B.E./B.Tech. (Chemical) with 1 year experience relevant to the Environmental Engg. Field
2	M.E. Structural Engineering	B.E./B.Tech. Civil
3.	M.Tech. Remote Sensing	B.E./B.Tech. (Civil/Mining/ Agri Engg. /EEE/ ECE / CSE) (or) Four-year B.Sc. (Agri/Forestry/ Horticulture/ Fishery) (or) M.Sc.(Geography/Geology/Physics) Note: The candidate must have studied at least two courses of Mathematics at the level of UG/PG in the case of B.Sc. (4 years) and M.Sc.
FACULTY OF MECHANICAL ENGINEERING		
1	M.E. Engineering Design	B.E./B.Tech. (Mech./Auto /Production / Mfg./ Industrial Engg./Mechatronics)
2	M.E. Industrial Engg.	B.E/B.Tech – All branches
3	M.E. Manufacturing Engg.	B.E./B.Tech (Produ./Auto/ Mech./Indl./Metallurgy /Mfg./ Mechatronics)
4	M.E. Computer Aided Design	B.E./ B.Tech (Mech. / Production/Auto. / Metallurgical / Aeronautical /Mechatronics / Marine / Industrial / Manufacturing)
5	M.E. Thermal Engineering	B.E./ B.Tech (Mech. / Production / Auto./Metallurgical /Aeronautical /Mechatronics / Marine / Industrial / Manufacturing)
6	M.E. CAD/CAM	B.E./ B.Tech (Mechanical/Automobile/ Manufacturing / Production/Industrial Engg./ Mechatronics)
7	M.E. Industrial Safety Engineering	B.E./B.Tech.(All Branches)
FACULTY OF ELECTRICAL ENGINEERING		
1	M.E. Power Systems Engg.	B.E./ B.Tech. (EEE / IC)
2	M.E. Power Electronics & Drives	B.E. / B.Tech. (EEE / ECE / EI / IC / Electronics/ Instrumentation)

3	M.E. Embedded System Technologies	B.E./ B.Tech. (EEE / ECE/ CSE /IT / IC / EI/ Electronics/ Instrumentation)
FACULTY OF INFORMATION & COMMUNICATION ENGINEERING		
1	M.E. Applied Electronics	B.E. / B.Tech. (EEE / ECE / Electronics / EI /IC / Instrumentation / Biomedical / Biomedical Instrumentation)
2	M.E. Communication Systems	B.E./B.Tech. (ECE/Electronics/EI)
3	M.E. Computer Science and Engineering	B.E./ B.Tech. (EEE / ECE / Electronics / IT / CSE / EI / IC / Instrumentation / CSE) (or) M.Sc (2 years / 5 years) Software Engg ./ IT /Computer Tech. / CS / Computer Electronics (or) M.C.A
4	M.E. Software Engineering	B.E./ B.Tech.(EEE / ECE / EI / IC/ IT /Electronics / Instrumentation / CSE) (or) MSc. (2years / 5 years) Software Engineering / Information Tech./ Computer Tech./ Computer Science/ Computer Electronics (or) MCA.
5	M.E. Optical Communication	B.E./ B.Tech. (ECE / Electronics /EI)
6	M.E. VLSI Design	B.E. / B.Tech. (EEE/ ECE / Electronics/ Instrumentation/ EI / IC / CSE/ IT)
7	M.E. Computer and Communication	B.E. / B.Tech.(CSE / IT / ECE / EI/ Electronics)
8	M.E Pervasive Computing Technology	B.E. / B.Tech. (EEE/ CSE/ ECE/ E&I) / (IT / I&C)
9	M.C.A	Any Bachelor's degree of minimum 3 years duration in any discipline with Mathematics at 10+2 level Or Any Bachelor's degree of minimum 3 years duration in any discipline with Mathematics as one of the subjects.
FACULTY OF TECHNOLOGY		
1	M.Tech. Biotechnology	B.Tech. (Chemical Engineering/ Leather Technology/ Bio-Chemical Engineering/ Industrial Bio-Technology / Petroleum Technology / Petroleum Engineering / Bio-Technology / Petrochemicals / Petroleum Refining & Petro Chemicals / Agricultural Bio-Technology) (or) B.Pharm./ M.Sc. (Bio-Chemistry/ Micro-Biology/ Bio-Physics/ Bio Technology / Genetics)
2	M.Tech. Energy Conservation Management	B.E. / B.Tech. (Automobile Engineering, Mechanical Engineering, Electrical and Electronics Engineering / Chemical Engineering / Petrochemical Engineering / Electro-chemical Engineering)

3	M.Tech. Nanoscience and Technology	B.E./ B.Tech. (Mech./ ECE/ Ceramic/ Engineering Physics/ BioTechnology/ Industrial Bio-Technology / Chemical/ Biomedical / Agricultural Bio-Technology) (or) B.Pharm. (or) M.Sc. (Physics/ Material Science/ Chemistry/ Applied Chemistry/ Bio Chemistry/ BioTechnology) with Mathematics as one of the subject at B.Sc. Level
4	M.Tech. Renewable Energy	B.E. / B.Tech. (BioTech. / Chemical / Industrial Bio-Technology / Electrochemical / Mechanical / Automobile / Manufacturing / Production / Industrial)
FACULTY OF MANAGEMENT SCIENCES		
1	M.B.A	Any Degree
FACULTY OF PHARMACY		
1	M.Pharm (Pharmaceuticals & Pharmaceutical Analysis)	B.Pharm