

**ALAGAPPA CHETTIAR COLLEGE OF
ENGINEERING & TECHNOLOGY
KARAIKUDI – 630 003**

**(Government Autonomous Institution,
Affiliated to Anna University, Chennai.)**

**Regulations – 2015
CHOICE BASED CREDIT SYSTEM
for
Degree of Bachelor of Engineering (B.E)
(Applicable to the students admitted
from the academic year 2015—2016 onwards)**

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CHOICE BASED CREDIT SYSTEM

Degree of Bachelor of Engineering (B.E)

Applicable to the students admitted from the academic year 2015—2016 onwards.

1. Preliminary definitions and nomenclature

In these Regulations, unless the context otherwise requires:

I) **“Programme”** means Degree Programme, that is B.E. Degree Programme.

II) **“Discipline”** means specialization or branch of B.E. Degree Programme, like Civil Engineering, Mechanical Engineering, etc.

III) **“Course”** means a theory or practical subject that is normally studied in a semester, like Mathematics, Physics, etc.

IV) **“Head of the Institution”** means the Principal of the Institution.

V) **“Controller of Examinations”** means the authority of the Institution who is responsible for all Examinations related activities of the Institution.

2. Admission

2.1 Regular Admission

Candidates seeking admission to the First semester B.E degree Programme should have passed the Higher secondary examination of (10+2) curriculum (Academic stream) prescribed by the Government of Tamilnadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part III or any examination of any other University or authority accepted by the syndicate of Anna University, Chennai as equivalent thereto or should have passed the Higher secondary examinations of vocational stream (Vocational groups in Engg. / Tech.) as prescribed by the Government of Tamilnadu.

2.2 Lateral Entry Admission

i.) The candidates who possess the Diploma in Engg. / Technology awarded by the State Board of Technical Education, Tamilnadu or its equivalent are eligible to apply for direct admission to

the third semester of B.E degree Programme under Lateral Entry Scheme in the branch corresponding to the branch of study.

Or

ii.) The candidates who possess the Degree of science (B.Sc) (10+2+3 stream) with mathematics as a subject at the +2 level are eligible to apply for admission to the third semester of B.E Degree Programme. Such candidate shall undergo two additional engineering subjects in the third and fifth semester or fourth and six semester respectively as prescribed by the respective discipline. (Annexure – II).

3. Programmes Offered

A candidate may be offered admission to any one of the disciplines approved by AICTE and it is offered by this Institution. The Programmes offered by the institution are given in Annexure I.

4. Structure of the Programme

4.1 The duration of *UG* Degree Programme is to be normally of 4 academic years (=8 Semesters), with the year being divided into two Semesters of 20 weeks (≥ 90 working days) consisting of Continuous Internal Evaluation (CIE) in the Semester & Semester End Examination (SEE) in every semester.

4.2. Choice Based Credit System (CBCS)

The CBCS provides choice to the students to select a number of courses from the prescribed courses (core, elective or minor or soft skill courses ,etc) in order to earn required credit for the award of degree.

4.3. **Course** usually referred to, as ‘papers’ is a component of a Programme. All courses need not carry the same weight. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work / field work / outreach activities/ project work / vocational training /viva / seminars / term papers / assignments / presentations / self-study etc. or a combination of some of these. The typical course structure suggested by AICTE is shown in Annexure – III.

4.4. Professional Core Courses

A course which is compulsorily be studied by a student for the requirement of a Programme in his / her discipline of study.

4.5 Professional Elective Courses

Generally a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline /domain or nurtures the candidate's proficiency/ skill is called Professional Elective Course.

4.6 Open Elective Courses

An elective course chosen generally from other discipline / subject, with an intention to seek interdisciplinary exposure is called an open elective. Every student shall earn 9 credits by choosing three of the open elective courses from the open elective list offered by different departments. While choosing the electives, students shall ensure that they do not opt for the courses with syllabus contents of which are similar to that of their departmental core/elective courses.

4.7. Self Study Courses

An elective course designed to acquire a special/advanced knowledge, such as supplement study/support study to a project work, and a candidate studies such a course on his own with an advisory support by a teacher is called a Self Study. A student shall undergo two self- study courses for the entire duration of study.

4.8 One Credit Courses

One credit courses shall be offered by the Department with the prior approval from the BOS and Academic Council. Normally one credit courses to be designed by Industrial / Academic expert for 15 conduct hour. The credits earned through the one credit courses shall be over and above the minimum credit requirement prescribed in the curriculum. The students shall undergo one credit courses offered in other Departments with the permission of Head of Department.

4.9 Online Courses

Students shall earn credit through on line courses offered by International / National recognized Institutions. Normally one credit shall be assigned for these courses.

4.10. Basic Science Courses

Basic Science courses includes compulsory and elective courses. Compulsory courses cater to all departments, it consists of,2- Mathematic Courses, 1- Physics course, 1- Chemistry Course , Physics and chemistry laboratories. Basic Science Elective courses contain department specific advanced courses.

4.11 Credit Representation:

Credit values assigned for different academic activities are shown in the following table.

Lectures (hrs/wk/Sem.)	Tutorials (hrs/wk/Sem.)	Practical Work (hrs/wk/Sem.)	Credits (L: T: P)	Total Credits
3	0	0	3:0:0	3
2	2	0	2:1:0	3
2	0	2	2:0:1	3
3	0	2	3:0:1	4
2	2	2	2:1:1	4
0	0	6	0:0:6	3
3	2	0	3:1:0	4

4.12 Course Load

Every student should register for a set of Courses in each Semester, with the total number of their Credits being limited by considering the permissible weekly Contact Hours of 30. i.e. maximum credits registered 30 per week. An average course load of 22 to 24 credits per semester is generally acceptable. But a candidate should register for a minimum of 18 credits per semester.

4.13. Audit Courses

Students shall be able to register for Courses outside the prescribed range of Credits for audit only, when interested to supplement their knowledge/skills; Optional for students to appear/pass in CIE, SEE of these courses and/or seek their inclusion in the Grade cards or Transcripts issued (but, not for earning Credit).

4.14. Course Registration

Every student should formally register for Courses (Credits) as advice per the guidance of the faculty adviser in each Semester. It is helpful for monitoring the CIE, SEE performance in each case and to assist the students in self-paced learning by dropping/withdrawing from Course(s), and to avail of Course Flexibility;

4.15. Course Evaluation

CIE and SEE to constitute the major evaluations prescribed for each Course. Each Course shall be evaluated for 100 marks, irrespective of its Credits.

4.16. Credits Required for Degree Award

It is suggested that the minimum number of Credits to be earned by a student for the award of Degree should be between 176 and 180 specified in the curriculum of the relevant branch.

4.17. Semester Grade Point Average (SGPA)

It is a measure of performance of work done in a semester. It is ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.

4.18 Cumulative Grade Point Average (CGPA)

It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.

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

5.0 Duration of the Programme

5.1 A student is normally expected to complete the B.E. Programme in minimum period of four academic years but in any case not more than 8 academic years, for HSC candidates. For Lateral entry students the minimum and maximum period shall be 3 and 6 Academic years respectively.

5.2. Each semester shall normally consist of roughly 90 working days. The Principal shall ensure that every teacher imparts instruction as per the number of periods / week specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.

5.3 The Principal may permit to conduct additional classes for improvement, special coaching, conduct of model test etc., over and above the specified periods. The end semester examination will follow immediately after the last working day of every semester as prescribed in the academic schedule.

5.4 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 (5.1) irrespective of the period of break of study in order that he / she may be eligible for the award of the degree (vide clause 13).

6. Faculty Adviser

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 class of students to a teacher of the Department who shall function as Faculty Adviser for those students throughout their period of study. Such Faculty Advisers 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 adviser may also discuss with or inform the parents about the progress of the students.

7. Class committee

7.1. Every class shall have a class committee consisting of teachers handling the class concerned, student representatives and a chairperson. The objective of the class committee is to monitor overall the 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 other details relevant to academic activities. Informing the student representatives on the details of Regulations regarding weightage used for each course. 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 series 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.
- Informing the students about the attendance details of the class at every class committee meeting and advising the students to attend the classes regularly to avoid shortage of attendance.

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 Principal / Chief faculty advisor.

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 invite the Faculty adviser(s) and the Head of the Department to the meeting of the class committee.

7.6. The Principal 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 Principal within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are any recommendations in the minutes that require necessary action by the Principal, the same shall be brought to the notice of the Principal.

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. **The Class Committee Chairman shall put on the Notice Board the cumulative attendance particulars of each student at the end of every such meeting to enable the students to know their attendance details.** 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.

8.0 Examinations

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

8.1 Each course, both theory and practical (including project work & viva voce Examinations) shall be evaluated for a maximum of 100 marks.

(a) Theory courses

For all theory courses, the Continuous Internal Assessment will carry 30 marks and the End semester examination will carry 70 marks.

The break-up of marks for continuous internal assessment is as follows:

First assessment (Test-I) : 10 marks;

Second assessment (Test-II) : 10 marks;

Third assessment (Test-III) : 10 marks

(b) Practical Courses

Every practical exercise / experiment shall be evaluated based on the exercise / experiment prescribed as per the syllabi and the records of work done maintained by the students. The criteria for arriving at the internal assessment marks (30 marks) shall be decided based on the performance of the students in all experiments put together and reduced to 20 marks and one model test carry 10 marks.

(c) Theory Courses with Laboratory Component

If there is a theory course with Laboratory component, there shall be three tests: the first two tests (each 100 marks) will be from theory portions and the third test (maximum mark 100) will be for laboratory component. The sum of marks of first two tests shall be reduced to 60 marks and the third test mark shall be reduced to 40 marks. The sum of these 100 marks may then be arrived at for 30 and rounded to the nearest integer.

- 8.2 (a) The credits earned through the one credit courses shall be over and above the minimum credit requirement prescribed in the curriculum.

The one credit course shall carry 100 marks based on assessments and Semester End Examination.

(b) The Industrial / Practical Training, Summer Project, Internship shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial / Practical training / internship / Summer Project, the candidate shall submit a certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Department. The certificates (issued by the organization) submitted by the students shall be attached to the mark list sent by the Head of the Department to the Controller of Examinations.

(c) The Seminar has internal evaluations only. The total marks of 100 may be arrived by three reviews.

8.3 Project Work

Project work may be allotted to a single student or to a group of students not exceeding 4 per group. The Head of the department shall constitute a review committee for project work for each branch of study. There shall be three reviews during the semester by the review committee.

The student shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be **reduced for 60 marks** and rounded to the nearest integer.

8.3.1 The project report shall carry a maximum 20 marks. The project report shall be submitted as per the approved guidelines, given by the COE. Marks shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 120 marks. Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.

Review I	Review II	Review III	Guide (report)	End semester Examinations (Viva-Voce)	
20	20	20	20	Internal Examiner	External Examiner
				60	60

8.3.2 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 appear for the same in the subsequent semester. 8.4 Internal marks approved by the Head of the Institution shall be displayed by the respective HODs within 5 days from the last working day.

9. Requirements for appearing End semester examinations

A candidate shall normally be permitted to appear for the Semester End Examination of any course in a particular semester for which he/she has registered the course if he could satisfy 75 % attendance in a course. (For all theory and practical courses except self study courses).

However, a candidate who secures attendance between 65 % and 75 %, only in one particular 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 Head of the Department concerned shall be given exemption from the prescribed attendance requirement and he / she shall be permitted to appear all courses registered in that particular semester examinations.

Candidates who secure less than 65 % attendance in a particular course will not be permitted to write the Semester End Examination. They are required to repeat the particular course.

Registration is mandatory for semester examinations as well as arrears examinations. A candidate already appeared for a course/ courses in a semester and passed the examination is not

entitled to appear in the same subject or subjects of the semester for improvement of grades / marks.

10. **Passing requirements**

- 10.1 i) A candidate who secures not less than 50% of total marks prescribed for the courses with minimum of 45% of the marks prescribed for the Semester End Examination in both theory and practical courses shown in table (including Project work, except one credit and self study courses), shall be declared to have passed the examination. The evaluation for the end semester shall be 100 marks.

Semester End Examination		Continuous Assessment	Total 100
100	70	30	
45	32 (rounded to)	x	50

- ii) Self study courses have only End Semester Examinations only which requires 50% of marks to be declared as pass. (No Internal Assessment).
- iii) One Credit courses may be Online certificate course or the courses may be conducted by an expert for 15 hours.
- iv) If anyone fails in a elective course, he may reappear or drop that course and choose another elective course.
- 10.2 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 subsequent semester when examination is conducted in that course; he/she should continue to register and reappear for the examinations in the failed courses till he / she secures a pass.
- 10.3 The internal assessment marks obtained by the candidate in the first appearance shall be retained and considered valid for all subsequent examination till the candidate pass the courses.

11. **Award of Letter Grades**

All assessments of a course will be done on the basis of absolute marks. 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 course as detailed below:

Letter Grade	Grade Points	Marks range
O (Outstanding)	10	95-100
A+(Excellent)	9	90-94
A(Very Good)	8	80-89
B+(Good)	7	70-79
B(Above Average)	6	60-69
C(Average)	5	55-59
P (Pass)	4	50-54
F(Fail)	0	Less than 50
Ab (Absent)	0	
I (Prevented)	--	
W(Withdrawal)	--	

12. GPA and CGPA Calculation

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

- Name of the Institution
- List of courses enrolled during the semester and the grade scored.
- Grade Point Average (GPA) for the semester and
- Cumulative Grade Point Average (CGPA) of all the courses enrolled from the first semester onwards.

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

$$\text{GPA} = \frac{\text{Sum of } C * GP_i}{\text{Sum of } C}$$

“C” - Credits allotted for the subjects.

“GP_i” – is the grade point corresponding to the letter grade obtained for each course.

“GP” - Grade points earned.

“CGPA” will be calculated considering all the courses enrolled from first semester.

. **“F”, “T” and “W”** grades will be excluded for calculating GPA and CGPA.

13. Eligibility for the award of degree

A student shall be declared to be eligible for the award of the B.E.. Degree provided the student has

- i) Successfully gained the required number of total credits as specified in the curriculum corresponding to his / her Programme within the stipulated time.
- ii) Successfully completed any additional courses prescribed by the BOS and Academic Council whenever, any candidate is readmitted under regulations other than R-2015 .
- iii) No disciplinary action pending against the student.
- iv) The award of Degree must have been approved by the Syndicate of the University.

14. Classification of the Degree awarded

14.1 First Class with Distinction

A candidate who satisfies the following conditions shall be declared to have passed the examination in First class with Distinction:

- Should have passed the Semester End Examination in all the courses for the minimum credits prescribed in the curriculum of the respective Programme in his/her First Appearance within five years (four years for lateral entry students) including break of study.
- Withdrawal from examination (vide Clause 17) will not be construed as an appearance.
- Should have secured a CGPA of not less than 8.50 (As per the Anna University norms).
- Should NOT have been prevented from writing end semester examination due to disciplinary action.
- One year authorized break of study (if availed of) is permitted in addition to four years for award of First class with Distinction.

14.2 First Class

A candidate who satisfies the following conditions shall be declared to have passed the

examination in **First class**:

- Should have passed the End semester examination in all the courses registered for the minimum credits prescribed in the curriculum of the respective Programme semesters within five years (Four years for lateral entry students).
- Withdrawal from examination (vide Clause 16) will not be construed as an appearance.
- Should have secured a CGPA of not less than 6.50 (As per the Anna University norms).
One year authorized break of study (if availed of) is permitted in addition to four years for award of First class.

14.3 **Second Class**

All other candidates (not covered in clauses 14.1 and 14.2) who qualify for the award of the degree 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 registered for the same shall be considered to have appeared in that examination for the purpose of classification.

15. **Revaluation**

15.1 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 along with prescribed application to the Controller of Examinations through the Head of Department. 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. Revaluation is not permitted for practical courses, Seminar and for project work. A candidate can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

15.2 If the candidate is not satisfied with the revaluation marks/results, he/she can challenge, by paying required fee. If there is a change in the result after re-revaluation, the challenged fee will be refunded to the candidate.

16. **Provision for withdrawal from examinations**

16.1 A candidate may, for valid reasons, (medically unfit / unexpected family situations) be granted permission to withdraw from appearing for the examination in any course or courses in any one of the semester examinations during the entire duration of the degree Programme. Also only one application for withdrawal is permitted for that semester examination in which withdrawal is sought.

16.2 Withdrawal application shall be valid only if the candidate is otherwise eligible to write the examination (Clause 9) and if it is made within TEN days before the commencement of the examination in that course or courses and also recommended by the Head of the Department.

16.3 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 deciding the eligibility of a candidate for First Class with Distinction and First Class.

16.5 Withdrawal is NOT permitted for arrears examinations of the previous semesters.

17. Authorized Break of study from a Programme

17.1 A candidate is normally not permitted to temporarily break the period of study. However, if a candidate may avail an authorized break of study for valid reasons such as accident or hospitalization due to prolonged ill health otherwise for the purpose of study out side the campus, during the Programme duration. In a duration of study two semesters break period may be permitted.

17.2 Authorized break of study will be taken into account for classification.(vide Clause 14.1&14.2).

17.3 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 5.1 irrespective of the period of break of study in order that he / she may be eligible for the award of the degree (vide clause 13).

17.4 If any student is detained under disciplinary actions, the period spent in that semester shall not be

considered as permitted 'Break of Study' and Clause 17.1. is not applicable for this case.

17.5 If the student does not report back to the department, even after the extended Break of Study, the name of the candidate shall be deleted permanently from the college enrollment.

18. Industrial visits / Training

Every student is required to undergo Industrial visits for every semester starting from the third semester of the Programme. Heads of the Departments shall take efforts to send the students for at least one industrial visit in a semester. The students may undergo industrial training for a total period of 2 – 6 weeks during summer / winter vacation between IV and VI semesters of study.

DURATION OF TRAINING	CREDITS
Industrial Training (2 Weeks)	1
Industrial Training (4 Weeks)	2
Industrial Training (6 Weeks)	3

The evaluation of Industrial Training should be made by a three member committee constituted by Head of the Department which consists of Course advisor, faculty coordinating the training Programme and faculty member (s).

- a) One seminar presentation should be made by the student based on the Industrial Training and the marks obtained during seminar can be computed as per norms for the internal assessment.
- b) A report on Industrial Training undergone by the student duly attested by a responsible person in the industry in which the student has undergone training and the Head of the Department concerned, shall be submitted after the completion of training. The evaluation of report and viva voce examination can be computed as per norms for the end semester examination.
- c) For evaluation purpose, the industrial training shall be treated as a practical subject. The credits earned by the student through industrial training shall be over and above the minimum credits prescribed in the discipline.

19. Personality and Character development

All students shall enroll, on admission, in any one of the personality and character development Programmes (the NCC/NSS/NSO/YRC) and undergo training for about 80 hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid.

- **National Cadet Corps (NCC)** will have about 20 parades.
- **National Service Scheme (NSS)** will have social service activities in and around the College / Institution.
- **National Sports Organization (NSO)** will have sports, Games, Drills and Physical exercises.
- **Youth Red Cross (YRC)** will have activities related to social services in and around college/institutions.

- **YOGA:** Students shall practice yoga to improve their physical and mental strength..
- While the training activities will normally be during weekends, the camp will normally be during vacation period.
- Every student shall put in a minimum of 75% attendance in the training and attend the camp compulsorily. The training and camp shall be completed during the first year of the Programme. However, for valid reasons, the Head of the Institution may permit a student to complete this requirement in the second year.

20. 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 Institution. If a student indulges in malpractice in any of the Internal examination/End semester examination he / she shall be liable for punitive action as prescribed by the university from time to time.

21. Revision of Regulation and Curriculum

The Institution may from time to time revise, amend or change the Regulations, examination scheme and syllabi if found necessary.

ANNEXURE – I

B.E. Degree Programmes :

1. B.E. Civil Engineering
2. B.E. Mechanical Engineering
3. B.E. Electrical and Electronics Engineering
4. B.E. Electronics and Communication Engineering
5. B.E. Computer Science and Engineering

ANNEXURE-II

ADDITIONAL COURSES TO BE STUDIED BY THE B.Sc. GRADUATES ADMITTED TO III SEMESTER B.E. / B.TECH. (R-2015) UNDER LATERAL ENTRY SCHEME
THE FOLLOWING TWO ADDITIONAL COURSES ARE PRESCRIBED FOR THE B.Sc. GRADUATES

- a. The First course to be studied either in their III semester or V semester of study.

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	M	C
1.		Engineering Graphics	2	4	0	100	4

- b. The Second course to be studied during the IV or VI semester of their study.

The student can register for any ONE of the following courses as applicable to their

Branch of study.

i. For Non-Circuit Branches: (Any one of the Following)

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	M	C
1.		Engineering Mechanics	3	0	0	100	3
2.		Basic Electrical & Electronics Engineering	3	0	0	100	3

ii. **For Circuit Branches:**

a. **For Branches under Electrical Faculty** (Any one of the Following)

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	M	C
1.		Circuit Theory (For branches under Electrical Faculty)	3	2	0	100	4
2.		Basic Civil & Mechanical Engineering	3	0	0	100	3

ANNEXURE – III

Typical breakdown of Course Representation for UG Degree Programmes suggested by AICTE:

Sl.No	Course Work - Subject Area	Range of Total Credits (%)	
		Minimum	Maximum
1	Humanities and Social Sciences (HS), including Management;	5	10
2	Basic Sciences(BS) including Mathematics, Physics, Chemistry, Biology;	15	20
3	Engineering Sciences (ES), including Materials, Workshop, Drawing, Basics of Electrical/Electronics/Mechanical/Computer Engineering, Instrumentation;	15	20
4	Professional Subjects-Core (PC), relevant to the chosen specialization/branch;	20	30
5	Professional Subjects – Electives (PE), relevant to the chosen specialization/ branch;	10	15
6	Open Subjects- Electives (OE), from other technical and/or emerging subject areas;	5	10
7	Project Work, Seminar and/or Internship in Industry or elsewhere.	10	15
8	Self study course	3	8
9	Online Courses	3	8
10	Mandatory Courses (MC)	3	8