

**ANNA UNIVERSITY, CHENNAI**  
**UG (B.E. / B. Tech.) REGULATIONS 2008**  
**CREDIT SYSTEM**  
**AFFILIATED COLLEGES**  
**DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY**

The following Regulations are **applicable to all Engineering Colleges affiliated to Anna University, Chennai (other than Autonomous Colleges) and to all the University Colleges of Engineering of Anna University, Chennai.**

### **1. STRUCTURE OF PROGRAMMES**

1.1 Every Programme will have curricula with syllabi consisting of theory and practicals such as:

- (i) General core courses comprising mathematics, Basic sciences, Engineering sciences humanities and engineering.
- (ii) Core courses of Engineering/Technology.
- (iii) Elective courses for specialization in related fields.
- (iv) Workshop Practice, Computer Practice, Engineering Graphics, Laboratory work, Industrial training, Seminar presentation, Project work, Educational tours, Camps etc.
- (v) NCC / NSS / NSO / YRC activities for character development.

There shall be a certain minimum number of core courses and sufficient number of elective courses that can be opted by the student.

1.2 Each course is normally assigned certain number of credits with 1 credit per lecture period per week, 1 credit per tutorial period per week, 1 credit for 2 periods of laboratory or practical or seminar or project work per week (2 credits for 3 or 4 periods of practical) and **1 credit for 2 weeks, 2 credits for 4 weeks and 3 credits for 6 weeks of industrial training during semester vacations.**

1.3 Each semester curriculum shall normally have a blend of lecture courses not exceeding 7 and practical courses not exceeding 4. However, the total number of courses per semester shall not exceed 10.

1.4 For the award of the degree, a student has to earn certain minimum total number of credits specified in the curriculum of the relevant branch.

1.5 **The medium of instruction is English for all courses, examinations, seminar presentations and project / thesis / dissertation reports except for the programmes offered as Tamil Medium courses.**

## 2. DURATION OF THE PROGRAMME

2.1 A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (four academic years) but in any case not more than 14 Semesters for HSC candidates and not more than 12 semesters for Lateral Entry Diploma / B.Sc. Candidates.

2.2 Each semester shall normally consist of 90 working days or 450 periods of 50 minutes each. The principal shall ensure that every teacher imparts instruction as per the number of periods / hours specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.

2.3 The Head of the Institution / Principal may conduct additional classes for improvement, special coaching, conduct of model test etc., over and above the Specified periods. But for the purpose of calculation of attendance requirement or writing the end semester examinations (as per clause 6) by the students 450 periods conducted within the specified academic schedule alone shall be taken into account and the overall percentage of attendance shall be calculated accordingly. The University Examination will ordinarily follow immediately after the last working day of the semester commencing from I semester as per academic schedule prescribed from time to time.

2.4 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 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree .

## 3. REQUIREMENTS FOR COMPLETION OF THE SEMESTER

3.1 A Candidate who has fulfilled the following conditions shall be deemed to have Satisfied the requirements for completion of a semester. Ideally every student is expected to attend all classes and secure 100% attendance. However, in order to give provision for certain unavoidable reasons such as Medical / participation in sports / personal, the student is expected to attend atleast 75% of the classes during **any semester commencing from First semester.**

3.1.1 **Therefore, he/she shall secure not less than 75%** (after rounding off to the nearest integer) of overall attendance taking into account the total number of **450 periods in a semester within 90 working days in** all courses put together attended by the candidate as against the total number of periods in all courses offered during the **semester.**

3.2 However, a candidate who secures overall attendance between 65% and 74% in that current semester due to medical reasons (prolonged hospitalization / accident / specific illness / Participation in Sports events) may be permitted to appear for the current semester examinations subject to the condition that the candidate shall submit the medical certificate attested by the Head of the Institution. The same shall be forwarded to the Controller of Examinations, Anna University, Chennai for record purposes.

3.3 Candidates who **secure less than 65% of overall attendance** shall not be permitted to write the University examination at the end of the semester and not permitted to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed.

#### **4. CLASS COMMITTEE**

Every class shall have a class committee consisting of teachers of the class concerned, student representatives 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 and Solving problems experienced by students in the class room and in the laboratories.

#### **5. COURSE COMMITTEE FOR COMMON COURSES**

Each common theory course offered to more than one discipline or group, shall have a "Course Committee" comprising all the teachers 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 / Principal depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The 'Course committee' shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible, the course committee may also prepare a common question paper for the internal assessment test(s).

#### **6. SYSTEM OF EXAMINATION**

6.1 Performance in each course of study shall be evaluated based on (i) continuous assessment throughout the semester and (ii) University examination at the end of the semester. Internal of the semester.

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

6.2.1 For all theory and practical courses including project work, the continuous internal assessment will carry **20 marks** while the End Semester University examination will carry **80 marks**. Project work may be allotted to a single student or to a group of students not exceeding 4 per group.

6.3 The University examination (theory and practical) of 3 hours duration shall ordinarily Be conducted between October and December during the odd semesters and between April and June during the even semesters.

6.4 The University examination for project work shall consist of evaluation of the final Report submitted by the student or students of the project group (of not exceeding 4 students) by an external examiner followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the guide of the project group and an internal examiner.

6.5 For the University examination in both theory and practical courses including project Work the internal and external examiners shall be appointed by the University.

## **7. PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT**

For all theory and practical courses the continuous assessment shall be for a maximum of 20 marks (consisting of 15 marks for tests/experiments and 5 marks for attendance). The above continuous assessment shall be awarded as per the procedure given below:

### **7.1.**

#### **(a) Theory Courses**

Three tests each carrying 100 marks shall be conducted during the semester by the Department / College concerned. The total marks obtained in all tests put together out of 300, shall be proportionately reduced for 15 marks and rounded to the nearest integer (This also implies equal weightage to all the three tests).

#### **(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. There shall be at least one test during the semester. The criteria for arriving at the

internal assessment marks (15 marks) shall be decided based on the recommendation of the class committee and shall be announced at the beginning of every semester by the Principal.

**(c) Internal Assessment for Theory Courses with Laboratory Component:**

The maximum marks for Internal Assessment shall be 15 in case of 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 30 marks and the third test mark shall be reduced to 30 marks. The sum of these 60 marks (Vide clause 11) may then be arrived at for 15 and rounded to the nearest integer.

**7.2 Project Work:**

The Principal shall constitute a review committee for each branch of study. There shall be three reviews (each 100 Marks) 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 15 marks** and rounded to the nearest integer. (This also implies equal weightage to all the three assessments), **5 marks** shall be given for Attendance (Clause 11.3).

**7.2.1** The project report shall carry a maximum 30 marks (same mark shall be awarded for the report submitted to every student within the project group) while the viva-voce examination shall carry 50 marks. (Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination).

Attendance	Review I	Review II	Review III	End Semester Examination				
				Thesis Submission (30)		Vivo-Voce (50)		
5	5	5	5	Internal	External	Internal	External	Guide
				15	15	16.66	16.66	16.66

**7.3 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

7.3.1 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 will put his signature and date after due verification. At the end of the semester, the record should be verified by the Principal 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. REQUIREMENTS FOR APPEARING FOR UNIVERSITY EXAMINATIONS**

A candidate shall normally be permitted to appear for the University Examinations of any semester commencing from I semester if he/she has satisfied the semester completion requirements (subject to Clause 6) and has registered for examination in all courses of the semester. Registration is mandatory for semester examinations as well as arrear examinations, failing which the candidate will not be permitted to move to the higher semester. A candidate who has already appeared for any subject in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades / marks.

## **9. PASSING REQUIREMENTS**

9.1 A candidate who secures not less than 50% of total marks prescribed for the courses With a minimum of 45% of the marks prescribed for the end-semester University Examination in both theory and practical courses (including Project work), shall be declared to have passed the Examination.

9.1.1 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 subjects till he / she secures a pass.

9.1.2 The internal assessment marks obtained by the candidate in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secure a pass. However, from the 3rd attempt onwards if a candidate fails to obtain pass marks (IA + End Semester Examination) as per clause 13.1 then the passing requirement shall be as follows:

The candidate should secure 50% and above the maximum marks prescribed for course in the university examinations alone irrespective of Internal Assessment marks obtained.

## **10. AWARD OF LETTER GRADES**

10.1.1 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:

<b>Letter grade</b>	<b>Grade Points</b>	<b>Marks Range</b>
S	10	91 – 100
A	9	81 – 90
B	8	71 – 80
C	7	61 – 70
D	6	57 – 60
E	5	50 – 56
U	0	< 50
I	0	
W	0	

“U” denotes **Reappearance** is 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 12) and hence prevention from writing the end semester examination.

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

### **Grade sheet**

After results are declared, 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 for a semester is the ratio of the sum of the products of the number of credits for courses acquired and the corresponding points to the sum of the number of credits for the courses acquired in the semester.**

$$\text{GPA} = \frac{\text{Sum of [Credits acquired x Grade points]}}{\text{Sum of Credits}}$$

## Sum of Credits acquired

CGPA will be calculated in a similar manner, considering all the courses registered from first semester. “U”, “I” and “W” grades will be excluded for calculating GPA and CGPA.

$$\text{CGPA} = \frac{\sum_{i=1}^n C_i \text{GP}_i}{\sum_{i=1}^n C_i}$$

where  $C_i$  – is the Credits assigned to the course

$\text{GP}_i$  – is the point corresponding to the grade obtained for each Course

$n$  – is number of all Courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA

10.1.2 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 approved by the class committee immediately preceding end semester examination in which regular students wrote.

## 10.2 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 Institution. **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 Institution. Revaluation is not permitted for practical courses, seminars, practical training and for project work.

## 11. ELIGIBILITY FOR THE AWARD OF THE DEGREE

### 11.1 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 Syndicate.
- Successfully completed any additional courses prescribed by the Director, Academic Courses, whenever any candidate is readmitted under Regulations other than R – 2008.

## **12. CLASSIFICATION OF THE DEGREE AWARDED**

12.1 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 will not be construed as an appearance. Further, the authorized break of study will not be counted for the purpose of classification.

12.2 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**. Further, the authorized break of study (vide clause 18.3) will not be counted for the purpose of classification.

12.3 All other candidates (not covered in clauses 16.1 and 16.2) who qualify for the award of the degree (vide Clause 15) shall be declared to have passed the examination in **Second Class**.

12.4 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. (subject to clause 17 and 18)

## **13. PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION**

13.1 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.

13.2 Such withdrawal shall be permitted only once during the entire period of study of the degree programme.

13.3 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 Institution and approved by the Controller of Examinations.

13.3.1 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.

13.4 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.

13.5 Withdrawal from the End semester examination is **NOT** applicable to arrears subjects of previous semesters 17.6 The candidate shall reappear for the withdrawn courses during the examination conducted in the subsequent semester.

#### **14. PROVISION FOR AUTHORISED BREAK OF STUDY**

14.1 **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 **Director, Student Affairs in advance**, but not later than the last date for registering for the end semester examination of the semester in question, through the Principal of the Institution stating the reasons therefore and the probable date of rejoining the programme.

14.2 The candidates permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoined.

14.2(i) The students rejoined in any of the semesters are required to gain the stipulated number of credits in order to become eligible for the award of degree, under NEW Regulations.

14.2(ii) If any shortage of credits is observed cumulatively till the semester in which he / she is readmitted, then the Principal / student (through the Principal) shall apply to the Director, Academic Courses for prescribed additional courses, if any, at the beginning of the readmitted semester itself, so as to compensate for the shortage of the credits.

14.3 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. However, additional break of study granted will be counted for the purpose of classification.

14.4 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 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.

14.5 If any student is detained for want of required attendance, the period spent in that semester shall not be considered as permitted 'Break of Study' is not applicable for this case.

## **15. 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.