

**RULES AND REGULATIONS**  
**B. E. /B. Tech. Programmes**

(for the batches of candidates admitted in Academic year 2011-2012 and subsequently)

***NOTE:** The regulations hereunder are subject to amendments as may be decided by the Academic Council of the Institute from time to time. Any or all such amendments will be effective from such date and to such batches of students (including those already in the middle of the programme) as may be decided by the Academic Council.*

**1. Conditions for Admission**

Candidates for admission to the B.E. / B.Tech. degree programmes will be required to satisfy the conditions of admission thereto prescribed by the Anna University of Technology, Coimbatore and the Government of Tamil Nadu.

**2. Duration of the Programme**

- (i) For purposes of these regulations, the academic year will be normally spanning from June to May. Each academic year will be divided into Two semesters, the odd semester normally spanning from June to November and the even semester from December to May.
- (ii) **Minimum Duration:** The Programme will extend over a period of Four years with Eight semesters (3 years with six semesters for lateral entry) leading to the Degree of Bachelor of Engineering (B.E.) / Bachelor of Technology (B.Tech.) of the Anna University of Technology, Coimbatore.
- (iii) **Maximum Duration:** The candidate shall be required to successfully complete all the requirements to qualify for the award of B.E./B.Tech. degree programme within a maximum period of 7 years (6 years for lateral entry), these periods reckoned from the commencement of the semester to which the candidate was first admitted to the programme.

**3. Branches of Study**

**B. E. Programmes**

- I Aeronautical Engineering
- II Civil Engineering
- III Computer Science and Engineering
- IV Electrical and Electronics Engineering
- V Electronics and Communication Engineering
- VI Electronics and Instrumentation Engineering
- VII Mechanical Engineering

**B. Tech. Programmes**

- I Biotechnology
- II Information Technology
- III Textile Technology
- IV Textile Technology (Fashion Technology)

**4. Structure of Programmes**

- i. The curriculum will consist of courses of study (Theory, Practical, Project) and Personality Development Programme and syllabi as prescribed by the respective Boards of Studies from time to time.

- ii. Based on the **language proficiency** in the **first semester**, the students will be divided into two categories. The students who show good proficiency in English can opt for **German / Japanese / French / Hindi** and the remaining students will study **Advanced Communicative English in II Semester**.
- iii. Every student will be required to opt for **six** electives from the list of electives. Under Choice Based Credit System (CBCS), students can opt for any course as elective in consultation with respective HoDs during VI<sup>th</sup> & VII<sup>th</sup> Semesters from any branches of B.E / B.Tech. Programme including electives pertaining to **Physical Sciences**. (not more than two from Physical Sciences)
- iv. Candidates can also opt for **one credit courses** of 20 hours duration which will be offered at our institution from industry / other institution / our institution on specialised topics. Candidates can complete such **one credit courses** during the semesters III to VI as and when these courses are offered by different departments. A candidate will also be permitted to register for the **one credit courses** of other departments provided the candidate has fulfilled the necessary pre-requisites of the course being offered subject to approval by both the Heads of Departments. Credits will be indicated for these courses in the grade sheet, but it will not be considered for computing CGPA. However, if a candidate wishes to avail exemption of electives V or elective VI of the VIII Semester, he/she can do so by exercising his/her option in writing to the respective Head of the Department during the beginning of the VIII Semester by following the equivalence norm that **one elective** in the **VIII Semester** is equivalent to **three one credit courses** completed by the candidate during the previous semesters.
- v. Every student will be required to undertake a suitable project work in Industry / Department during VII semester in consultation with the Head of the Department and the faculty guide and submit the project report Phase I and thereon submit the project report Phase II at the end of the VIII Semester on dates announced by the Institute/Department.
- vi. A candidate can register for Self-Study Elective(s) over and above the electives from any branch of Engineering / Technology one per semester starting from V semester onwards provided he/she maintains a Cumulative Grade Point Average(CGPA) of 7.5 or above till the previous semesters with no standing arrears. Credits will be indicated for these courses in the grade sheet, but it will not be considered for computing CGPA.

#### 5. Special Courses:

Students can opt for any one of the special courses as self-study in **addition to** the courses specified in the curriculum in V, VI and VII semesters to get exposure in the recent research areas, under the guidance of the faculty provided he/she maintenance a minimum CGPA of 7.5 till the previous semester with no standing arrears. The credits obtained will be indicated in the grade sheet, but **will not be considered for CGPA**.

#### 6. Certificate Courses:

Students can opt for any one of the certificate courses offered in the various departments in IV, V, VI and VII semesters. A separate certificate will be issued on successful completion of the course.

#### 7. Requirements of Attendance and Progress

- (I) **Minimum Attendance:** A candidate will be deemed to have completed the requirements of study of any semester only if:

- a) He / she has kept not less than 70% of attendance in each course and at least 80% of attendance on an average in all the courses in that semester put together.

*[However, a candidate who has secured attendance between 70% & 79% in the current semester due to medical reasons (hospitalization / accident/ specific illness) or due to participation in Institute/ University/ State/ National/ International level sports events with prior permission from the Principal shall be given exemption from the prescribed attendance requirements and he/she shall be permitted to appear for the current semester examinations.]*

- b) His / her academic progress and conduct have been satisfactory

- (II) **Personality Development** : Every candidate shall be required to undergo a minimum of 40 hours of Personality Development Programme viz, NSS / NCC / YRC / YOGA / Sports and Games activities during the first year failing which he/she will not be permitted to appear for the Semester - End examinations of semester III onwards. Such candidates are permitted to appear for the Semester - End examinations of semester III onwards only after completing the above mentioned requirement. The record of attendance for Personality Development Programmes shall be maintained and sent to the Academic Section at the end of 1<sup>st</sup> and 2<sup>nd</sup> Semesters.

**National Cadet Corps (NCC)** will have parades.

**National Service Scheme (NSS)** will have social service activities in the community and camps.

**Youth Red Cross (YRC)** society activities will include peace time activities like health and hygiene, international friendship, awareness camps, etc.

**Yoga** will be practiced through Yoga master

**Sports and Games** will include preparation for Intra Institute and inter-collegiate sports events.

## 8. Procedure for Completing Programme

- (i) A candidate will be permitted to proceed to the courses of study of any semester only, if he / she has satisfied the requirements of attendance and progress in respect of the preceding semester and had registered for the highest semester examination for which he / she was eligible to register. vide Clause 7. In the case of project work, no candidate will be permitted to appear for the project work examination unless he /she had submitted the project report not later than the prescribed date.
- (ii) A candidate who is required to repeat the study of any semester for want of attendance / unsatisfactory progress and conduct or who desires to rejoin the course after a period of discontinuance or who upon his / her own request is permitted by the authorities to repeat the study of any semester, may join the semester for which he / she is eligible or permitted to rejoin, only at the time of its normal commencement for a regular batch of candidates and after obtaining the approval from the Director of Technical Education and Anna University of Technology, Coimbatore. No candidate will however be enrolled in more than one semester at any time. In the case of repeaters, the earlier assessment in the repeated courses will be disregarded.

## 9. Assessment

- (i) The assessment will be based on the performance in the Semester - End examinations and / or continuous assessment, carrying marks as specified in Clause 12.
- (ii) At the end of each semester, final examinations will normally be conducted during October/November and during April / May of each year. Supplementary examinations may also be conducted at such times as may be decided by the Institute.

- (iii) (a) Continuous Assessment Marks will be awarded on the basis of Continuous Evaluation made during the semester as per the scheme given in Clause 12.

**(Credit assignment:** Each course is normally assigned with certain number of credits @ 1 credit per one hour of lecture, 0.5 credit per one hour of tutorial/practical per week.)

- (b) The letter grade and the grade point are awarded based on the percentage of marks secured by a candidate in individual course as detailed below:

Range of Percentage of Total Marks	Letter grade	Grade Point (g)
90 to 100	S	10
80 to 89	A	9
70 to 79	B	8
60 to 69	C	7
55 to 59	D	6
50 to 54	E	5
0 to 49	RA	0
Incomplete	I	0
Withdrawal	W	0
Absent	AB	0

RA – Reappearance in the course.

*(A candidate who fails in the Semester - End Examination in any course(s) including Project Work after having registered for the same, shall be awarded grade RA.)*

I – Incomplete (as per clause 7 (I) & (II)) and hence prevented from writing Semester – End Examination.

W – Withdrawal from the Semester - End Examination  
vide clause 11

AB – Absent

*(A candidate who is eligible but fails to register and also fails to appear after registration for the Semester - End examination will be awarded the grade AB.)*

- (c) After completion of the programme, the Cumulative Grade Point Average (CGPA) from the I Semester to VIII Semester (*from III to VIII semester for lateral entry*) is calculated using the formula:

$$CGPA = \frac{\sum_1^n g_i * C_i}{\sum_1^n C_i}$$

where  $g_i$  : Grade Point secured corresponding to the course.

$C_i$  : Credit allotted to the course.

$n$  : Total number of courses for the entire programme.

## 10. (a). Passing Requirements and Provisions

- i. The minimum number of total credits to be earned by a candidate to qualify for the award of degree in the various branches of study as prescribed by the respective Boards of Studies is given below:

Branch of Study	Minimum Credits	
	entry at first semester	lateral entry at third semester
<b>BE Programmes</b>		
Aeronautical Engineering	193	141
Civil Engineering	193	141
Computer Science and Engineering	192	142
Electrical and Electronics Engineering	193	143
Electronics and Communication Engineering	193	141
Electronics and Instrumentation Engineering	192	142
Mechanical Engineering	193	143
<b>B Tech Programmes</b>		
B.Tech. Biotechnology	192	143
B.Tech. Information Technology	193	143
B.Tech. Textile Technology	192	143
B.Tech. Textile Technology (Fashion Technology)	193	141

### ***(Students Migration- Credit Accounting)***

*The Board of Studies of the respective department will decide on normalization of credits to the students migrating from other institutions to Bannari Amman Institute of Technology*

- ii. A candidate who secures a minimum of 50% marks in the Semester - End Examinations of a course and a minimum Grade point 5 with internal assessment and Semester - End Examination put together will be declared to have passed that course.
- iii. A candidate, who absents or withdraws or is disqualified to appear (as per clause 7 (I) and (II)) or secures a letter grade RA (Grade Point 0) or less than 50% in the Semester - End Examination in any course carrying Internal Assessment and Semester - End Examination Marks, will retain the already earned Internal Assessment Marks for two subsequent attempts only of that course and thereafter he / she will be solely assessed by Semester - End examination marks..
- iv. A candidate shall be declared to have qualified for award of B.E/B.Tech. degree if
- (i) He/she successfully completed the courses requirement (vide clause 7 ) and has passed all the prescribed courses of study of the respective programme listed in clause 13 within the duration specified in clause 2 and
- (ii) No disciplinary action is pending against him/her.

## **(b). Classification of degree**

- i. **First Class with Distinction** : A candidate who qualifies for the award of the Degree (vide clause 10 a (iv) ) having passed all the courses of study of all the eight semesters (six semesters for lateral entry candidates) at the first opportunity, within eight consecutive semesters (six consecutive semesters for lateral entry candidates) after the commencement of his /her study and securing a CGPA of 8.5 and above (vide clause 9c) shall be declared to have passed in **First Class with Distinction**. *For this purpose the withdrawal from examination (vide clause 11) will not be construed as an opportunity for appearance in the examination.*

ii. **First Class** : A candidate who qualifies for the award of the Degree (vide clause 10 a (iv)) having passed all the courses of study of all the eight semesters (six semesters for lateral entry candidates) within maximum period of ten consecutive semesters (eight consecutive semesters for lateral entry candidates) after the commencement of his /her study and securing a CGPA of 6.50 and above shall be declared to have passed in **First Class**.

iii. **Second Class** : All other candidates who qualify for the award of the degree shall be declared to have passed in **Second Class**.

#### 11. Withdrawal from the Examination

- (i) A candidate may, for valid reasons, be granted permission by Principal to withdraw from appearing for the examination in any course or courses of only one semester examination 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.
- (ii) Withdrawal application shall be valid only if the candidate is otherwise eligible to write the examination and if it is made prior to the commencement of the examination in that course or courses and also recommended by the Head of the Department.
- (iii) Withdrawal shall not be construed as an opportunity for appearance in the examination for the eligibility of a candidate for First Class with Distinction.

#### 12. Scheme of Assessment

##### (a) (i) THEORY

**Semester - End Examination : 50 Marks**  
**Internal Assessment : 50 Marks**

##### **Distribution of marks for Internal Assessment:**

Assignments	10
Test 1	10
Test 2	10
Model Examination	20
	----
	50
	----

*An optional test will be conducted in the respective test portion after the second test, to the students who opt, on valid reasons*

##### (ii) THEORY - ONE CREDIT COURSE

##### **TOTAL 100 Marks**

**Semester - End Examination : 50 Marks**  
**Internal Assessment : 50 Marks**

##### **Distribution of Marks for Internal Assessment:**

Assignment ( <i>Two Assignments</i> )	10
Test I	15
Test II	15
Viva voce	10
	----
	50
	----

**(b) (i) PRACTICAL (Without Mini Project)**

**Semester - End Examination : 50 Marks**  
**Internal Assessment : 50 Marks**

**Distribution of Marks for Internal Assessment**

Preparation	10
Observation & Results	15
Record	10
Model Examination & Viva-Voce	15
	----
	50
	----

**(ii) Practical (With Mini Project)**

**Semester - End Examination : 50 Marks**  
**Internal Assessment : 50 Marks**

**Distribution of Marks for Internal Assessment**

Preparation	05
Observation & Results	10
Record	10
Mini Project Report	10
Model Examination & Viva-Voce	15
	----
	50
	----

**(c) THEORY WITH LABORATORY COMPONENT**

**Semester - End Theory Examination : 50 Marks**  
**Internal Assessment : 50 Marks**

**Theory**

Test I	10.0
Test II	10.0
Model (Theory)	15.0

**Practical**

Observation & Results	5.0
Model Practical	10.0
	----
	50.0
	----

**(d) SPECIAL COURSES**

**Internal Assessment: 100 Marks**

State of Art	20
Preparation	15
Presentation	10
Discussion & Conclusion	15
Viva - voce	40
	----
	100
	----

**(e) SELF STUDY ELECTIVES**

**Semester - End Examination : 50 Marks**  
**Internal Assessment : 50 Marks**

Assignments (minimum 2 Nos)	15
Test I	10
Test II	10
Model	15
	----
	50
	----

**(f) COMMUNICATIVE ENGLISH & ADVANCED COMMUNICATIVE ENGLISH / GERMAN / JAPANESE / FRENCH / HINDI**

**Semester - End Examination : 50 Marks**  
**Internal assessment : 50 Marks**

Test 1	10
Test 2	10
Model Examination (Theory)	15
Model Examination (Practical : <i>(Listening 5 and Speaking 10)</i> )	15
	-----
	50
	-----

**(g) PROJECT WORK**

**i) PHASE – I**

**Semester - End Examination : 50 Marks**  
**Internal Assessment : 50 Marks**

**Distribution of Marks for Internal assessment**

Literature survey ( <i>one seminar</i> )	10
Problem formulation	10
Approach ( <i>one seminar</i> )	15
Progress ( <i>one seminar</i> )	15
	-----
Total	50
	-----

**Distribution of Marks for Semester - End Examination**

Report Preparation & Presentation	25
Viva-Voce	25
	-----
	50
	-----



**ii) PHASE – II**

**Semester - End Examination : 100 Marks**

**Internal Assessment : 100 Marks**

**Distribution of Marks for Internal assessment**

Continuation of Approach & Progress <i>(Two seminars – 2x20)</i>	40
Findings, Discussion & Conclusion <i>(Two seminars - 2x30)</i>	60
Total	----- 100 -----

**Distribution of Marks for Semester - End Examination**

Report Preparation & Presentation	50
Viva Voce	50
	----- 100 -----

**(h) TECHNICAL SEMINAR**

**Internal Assessment: 100 Marks**

Two Seminars (2 X 50)	100
-----------------------	-----

**Distribution of Marks Each Seminar**

Report Evaluation	10
Presentation	20
Viva – voce	20
	----- 50 -----

*(A team of 2 members and HOD constituted by the Principal, will evaluate the seminar report and conduct the viva-voce for assessment.)*

**13) Curriculum and Syllabi**