

## ***B. Tech. Ordinance, Rules & Regulations***

1. The **degree** “Bachelor of Technology” acronym as B.Tech. shall be of four years (eight semesters) in the branches of Engineering prevalent in the institute at a point of time based on course-credit system.
2. The **minimum qualification** for admission to the first semester of B.Tech. course shall be the passing of a Higher Secondary School Certificate exam (10+2) scheme with Physics, Chemistry and Mathematics conducted by Central Board of Secondary Education or an equivalent exam of a recognized Board/University.
3. **Admission** to the first semester of B.Tech. course shall be through securing a place in merit list of eligible candidates of a competitive examination, presently, All India Engineering Entrance Examination (AIEEE) governed by the rules of Central Counseling Board (CCB) time to time.
4. Two full **EXAMINATIONS** of theory and practical subjects will be generally conducted at the end of each semester called End Semester Exam (ESE) in November-December and April-May in an academic year alongwith two more exams called First Exam (FE) and Second Exam (SE) of only theory subjects during each semester. There will be another component called Teachers’ Assessment (TA) in theory and practical subjects.

### **5. Registration**

- 5.1. Every student of B.Tech program is required to be present and register at the commencement of each semester on the date fixed and notified in the Academic calendar.

Registration process will have three components.

- 5.1.1. Physical presence of the student on the first day of semester.
  - 5.1.2. Payment of semester fees including any unpaid dues of past semesters, and
  - 5.1.3. getting enrolled/registered in the department.
- 5.2 A student who does not register on the day announced for the purpose may be permitted by Dean Academics in consideration of any compelling reasons for late registration within next 5 working days on payment of additional late fee as prescribed by the Institute. For other compelling reasons such as serious medical problem, a family calamity, participation in a national event or those directed/approved by MHRD in 1st semester, etc, late registration may be permitted by the Director on the recommendation of Dean Academics. The percentage of attendance of students registering late will be calculated from the date of their joining if one is NOT admitted provisionally earlier. However, no special allowance may be claimed by the student in the matter of attendance/assessment/evaluation or grading.
  - 5.3 On the rare case of transfer from other NITs after the semester commences, such a student must produce one’s attendance statement from the concerned institution in each subject at the time of admission.
  - 5.4 Only those students will be permitted to register who have (i) cleared all the institute and hostel dues of the previous semesters, (ii) paid all required fees of the current semester, (iii) not been debarred from registering for a specified period on disciplinary or any other ground (iv) satisfied all the academic requirements and (v) not been struck off from the rolls of the institute.
  - 5.5 A student can register for a full course of 5th, 6th, 7th and 8th semester provided one has obtained at least minimum required pass grades in 1st, 2nd and lower, 3rd and lower and 4th and lower semesters, respectively, i.e., for registering in any semester beyond 4<sup>th</sup> semester, a student must have cleared ALL courses studied two years earlier.
  - 5.6 Except in 1<sup>st</sup> semester the tuition fees etc will be paid semester wise and not year wise.
  - 5.7 The classes of all semesters will start from the day following the registration or any other day as decided by the institute authorities.

### **6 Classes and attendance**

**Attendance** of students in all the classes (lectures, tutorials, laboratories, seminars etc.) is **compulsory** Consequently, a student shall be debarred from appearing in an exam or if s/he has already written an examination, the marks/grades obtained will be rejected on ground of unsatisfactory attendance, if the attendance is below what is prescribed in clause 7.1 or if in the

opinion of the course teacher, the student has not participated effectively in the class in terms of home assignments, class tests, quizzes etc.

**7. Eligibility of appearing in an End Semester Exam shall be:**

**7.1** Attending minimum 75% classes of each of theory and practical classes in the semester and a short fall in attendance upto 10% and a further 5% can be condoned by the Dean of Academic Affairs and the Director of the Institute respectively for satisfactory reasons. In truly exceptional circumstances, the Director may relax attendance requirements with reduction of grade, one or two steps lower, as it may be thought appropriate and recommended by a committee constituted for the purpose.

**7.2** However, there will be no restriction except regular or approved provisional admission in a semester to appear in First Exam (FE) and Second Exam (SE) of theory subjects in the semester.

**7.3** In Teacher's Assessment (TA) component of a course, a student is supposed to obtain 60% or more marks to pass each course, failing which he/she will not be permitted to appear in End Semester Examination (ESE) of that semester and he/she will have to repeat the semester.

**8. Eligibility of Admission to Higher Semester** will be governed by (n-4) system, i.e., a candidate shall be admitted to 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> semester only when one has fully and clearly passed 1<sup>st</sup>, 2<sup>nd</sup> and lower, 3<sup>rd</sup> and lower and 4<sup>th</sup> and lower semester examinations respectively, and have also appeared in or eligible to appear in exam of 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> semester respectively.

**9.** A candidate may **provisionally continue** ones studies in higher semester after the exam of the semester one appeared is over. The candidate's eligibility to higher semester will be evaluated only after the result of previous semester is out.

**10.** There shall be normally 14 weeks of teaching in every semester.

**11.** Once a candidate has passed a semester examination, one shall **NOT** be permitted to reappear in that examination or part thereof with a purpose of **improvement of performance in exam**, such as, division, marks, grades etc.

**12. Basis of Credits** will be  $\{L+(T+P)/2\}$  where L, T and P are number of Lecture, Tutorial and Practical periods respectively. Credit in a course will be a full number and if it falls to be a fractional one then that will be considered as next higher full number. A candidate can earn all the credits allotted to a semester only when he/she passes the said semester.

**13. Duration of B.Tech** course shall be minimum 4 years and maximum 7 years. At any earliest point of time during the entire course, if a student is found that despite clearing the remaining course regularly and clearly, s/he will NOT be able to complete the course within maximum permissible time, maximum one more year could be given under extra-ordinary circumstances by the Director of the institute for clearing the course. Further, s/he will have to relinquish the course at that point of time if not completed. However, special cases on the medical ground may be reviewed case by case by the Director on recommendation of the HoD and Dean Academics for suitable consideration.

**14. Mode of Assessment and Evaluation**

**14.1** The performance of a candidate in each semester shall be evaluated subject-wise, as per prevalent scheme of examination.

**14.2** There shall be FE, SE and End Semester Examination (ESE) and Teacher's Assessment (TA) for each Theory paper and ESE and TA for each practical with the following distribution and passing standards.

<b>Name of Examination</b>	<b>Minimum Passing Marks</b>
FE, SE Theory	NIL
End Semester Exam (ESE)	
Theory	35%
Practical	50%

Teacher's Assessment (TA) of Theory & Practical 60% each

Total of ESE, FE, SE & TA in Theory 35%

Practical 50%

**14.3** For the evaluation of End Semester Exam in Practical, two internal examiners shall always be there, one from within the department and other from within/outside the Department.

**14.4** There will be at least two FE, SE in each theory subject in a semester. Teacher's assessment in each theory and/or practical will be based upon home assignments, quizzes, take home tests, viva-voce, attendance, group discussion, tutorials etc.

**15 Grading System** Absolute grading system will be followed. In every subject of theory and practical, a candidate will be awarded a letter grade based on one's combined performances of all the component i.e. TA, FE, SE and ESE. These grades will be described by letters indicating a qualitative assessment of the candidate performance in the subject through a number equivalent called "Grade point(GP)". Letter grade, grade point, semester performance index (SPI) and cumulative performance index(CPI) will be calculated as given below. A course is completed successfully, or a credit is earned for a course when letter grade C or better is obtained in the course.

Letter Grade (LG) :	A+	A	B+	B	C+	C	F
Grade Point (GP) :	10	9	8	7	6	5	0

Grades will be awarded for every subject, theory and practical separately. This will be done as described below.

## **16 Absolute Grading System**

The absolute grading system of the type explained below will be adopted for theory and practical subjects

<b>Grades</b>	<b>Theory</b>	<b>Practical</b>
A+	85 ≤ Marks < 100%,	90 ≤ Marks < 100%,
A	75 ≤ Marks < 85%,	82 ≤ Marks < 90%,
B+	65 ≤ Marks < 75%,	74 ≤ Marks < 82%,
B	55 ≤ Marks < 65%,	66 ≤ Marks < 74%,
C+	45 ≤ Marks < 55%,	58 ≤ Marks < 66%,
C	35 ≤ Marks < 45%,	50 ≤ Marks < 58%,
F	0 < Marks < 35%,	0 < Marks < 50%,

Thus letter grades A+, A, B+, B, C+, C, and F and the corresponding Grade Point will be available for each subject evaluated by the examiner.

**Note:** \* will be suffix to the letter grade if candidate passed particular subject by grace marks.

## **17 Category of FAIL GRADE**

F: Failing in any Theory/Practical ESE.

FF : Failing in any theory/practical subject.

WW : Result withheld due to various reasons.

FA : Failing due to SPI being less than 5.75 , so eligible to appear in one or two subjects (theory only) of one's choice.

## **18 Constraints of Minimum Qualifying Marks**

To be eligible to appear in ESE, a candidate must score 60% marks in TA in each theory and/or practical separately failing which he/she will have to repeat the semester.

To pass any theory or practical, candidate must obtained:

**18.1** Minimum 35% marks in each theory paper.

- Minimum 50% marks in each practical marks.
- No minimum requirement in FE and SE.

- Minimum 35% marks of total marks (i.e. sum of FE, SE, TA and ESE) of a particular theory subject i.e. to earn grade C or above.

**18.2** Grade in each theory and each practical course will be awarded separately on the basis of summation of marks obtained by a student in the First Exam (FE)\*, Second Exam (SE)\*, End Semester Exam (ESE) and Teacher’s Assessment (TA) in a theory/practical course [\* for only theory courses].

**18.3** To pass a particular semester a candidate must:

- Passed all theory papers and practical as per the criteria given in 18.1.
- Obtained minimum 5.75 SPI

**18.4**

- If a candidate does not satisfy the pass criteria given in 18.1, fail grade “F” will be awarded. To pass the subject (i.e. to obtained grade better than F) he/she has to reappear in that particular theory subject.
- If a candidate does not satisfy the pass criteria given in 18.3, but satisfy the criteria given in 18.1 then he/she will be awarded grade “FA”. To pass the semester i.e. to satisfy the criteria given in 18.2, he/she has to appear in one or two subjects (theory only of once choice).

## 19 Semester Performance Index (SPI)

Performance of a student in i-th semester is expressed by SPI which is a weighted average of course grade points obtained by a student in the semester and is expressed by

$$SPI = \frac{\sum_{i=1}^n CiGi}{\sum_{i=1}^n Ci} = N_i/D_i$$

where C and G stand for Credit and Grade, respectively. SPIs will be calculated up to two places of decimal without rounding off. SPI will be calculated only when a student clears a semester without F in any subject, theory or practical.

## 20. Cumulative Performance Index (CPI)

This is a weighted average of course grade points obtained by a student for all courses taken since his admission to the degree program with 50% weightage of I and II semester marks and 100% for remaining semesters. Thus, CPI in i-th semester with “i” greater than 2 will be calculated as

$$CPI_K = \frac{\sum_K N_K}{\sum_K D_K}$$

If a student repeats a course or is declared fail in a subject, then only the grade points obtained in the latest attempts are counted towards CPI. CPI will be calculated in every semester with SPI, so that a student knows how his CPI is changing.

**21** At the end of each ESE, student will be given grade sheet indicating the grades obtained in all individual theory and practical subjects. SPI and CPI should also be given in grade sheet. Tabulation indicating marks obtained by students in each component of theory and practical subjects will be uploaded on Institute website so that students can see their performance against each component of the subject.

## 22 Award of Class OR Division

**22.1** The class/division awarded to a student with B. Tech. Degree is decided by the student’s overall performance at the end of eighth semester as per the following table

- Distinction or Honors : More than or equal to 8.25
- Class I :  $7.25 \leq CPI < 8.25$
- Class II :  $5.75 \leq CPI < 7.25$

**22.2** Division shall be awarded only after the eighth and final semester examination, based on integrated performance of the candidate for all the four years.

**22.3** No candidate shall be declared to have passed the final B.Tech unless he/she has fully passed all the previous examinations of the eight semesters. The results of the eighth and final

semester of those candidates who have not passed examination of any previous semester will be withheld. They, however, will be informed about the deficiency. He/she shall be deemed to have passed the final B.Tech. examination in the year in which he/she passes all the examinations of all eight semesters.

### **23 Merit Lists**

**23.1** Merit list of top 10 candidates including all branches in the order of merit shall be declared at the end of first and second semester from amongst the candidates who have passed in first attempt.

**23.2** Merit list of top 5 candidates in the order of merit shall be declared at the end of each semester after second semester in each branch from amongst the candidates who have passed in first attempt.

**23.3** Branch-wise final merit list shall be declared by the Institute only after the main examination of the eighth and final semester for B.Tech. degree, on the basis of the integrated performance of all the four years. The merit list shall include the first five candidates securing at least First Division and passing all semesters in single attempts.

### **24 Transcript**

The transcript issued to a student after completion of the course will contain consolidated record of all the courses taken by the student, grades obtained and the final CPI with class or division obtained.

**25 Eligibility for the degree:** A candidate shall be eligible for the award of the degree of the Bachelor of Technology (B.Tech.) only if the candidate:

- (i) has undergone the prescribed programme of study by earning the minimum total number of credits specified in the curriculum of the relevant programme of study within a maximum permissible duration.
- (ii) has no dues to the Institution, Library, Hostels, etc.
- (iii) has no disciplinary action pending against him/her.

### **26 Revaluation**

- (i) The candidate may apply to the Controller of Examination of the Institute for revaluation of his/her answer script for any one or two theory subjects.
- (ii) Such application must be made on the prescribed form along with the requisite fee within 7 days from the date of declaration of the result.
- (iii) If, on revaluation a mistake in the result originally published is detected, necessary correction as per rules shall be carried out and notified by the Institute. In all other cases, the result shall be communicated to the candidate, as soon as possible.
- (iv) Revaluation shall be allowed only in case of ESE of theory papers both for regular and supplementary candidate.

### **27. Rules for Condonation of deficiency in marks:**

The following rules shall be observed to condon grace marks for the purpose of deficiency, maximum upto 5 marks be condoned to the candidate only when

- (i) He/she has attempted the concerned ESE as a regular candidate.
- (ii) After allotting the grace marks candidate becomes eligible to pass the semester examination. The grace marks will be given in only one of the following cases provided he/she satisfy condition (i) and (ii) given above.
  - (a) In any theory/practical ESE
  - (b) In the sum of ESE+FE+SE+TA in any one subject.
- (iii) While declaring result of candidate no marks shall be added for the deficiency condoned as above except in the following case:
  - Candidate is failing in a subject and after adding grace marks he/she becomes eligible to pass that subject. In such cases his/her grade in the subject will be 'C'.
- (iv) Grade point 0.05 will be awarded as grace grade point if the candidate is getting the fail grade FA, if and only if benefit under (a) and (b) of (ii) above is not given.

- (v) 0.01 grade point will be awarded to the candidate who is missing distinction/missing first division by 0.01 grade point, on behalf of the Chairman Senate in the FINAL DEGREE examination. This benefit will be available also to supplementary candidate. This benefit will not be available to a candidate getting advantage under clause (ii) above.

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