

**NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI - 620 015**

**B. Tech. REGULATIONS 2015**

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## **B. Tech. Regulations**

### **B.1 QUALIFICATION FOR ADMISSION**

Qualifications for admission will be as per the criterion specified by the admission authority of the Government of India.

### **B.2 DURATION OF THE PROGRAMME**

1. The duration of the programme for the Degree of Bachelor of Technology will be four academic years, with three sessions (January, July and Summer) in each year.
2. The maximum duration for completing the programme is 6 years from the date of beginning of the programme in the Institute.

### **B.3 PROGRAMMES OF STUDY**

The following are the programmes of study offered

1. Chemical Engineering
2. Civil Engineering
3. Computer Science and Engineering
4. Electrical and Electronics Engineering
5. Electronics and Communication Engineering
6. Instrumentation and Control Engineering
7. Mechanical Engineering
8. Metallurgical and Materials Engineering
9. Production Engineering

### **B.4 STRUCTURE OF THE PROGRAMME**

The structure of B.Tech. programmes shall have General Institute Requirements (GIR), Programme Core (PC), Elective Courses (PE, OE and MI) and Essential Programme Laboratory Requirements (ELR) as follows:

**I. General Institute Requirements (GIR)**

Sl.No.	Name of the course	Number of courses	Max. Credits
1	Mathematics	4	14
2	Physics*	2	7
3	Chemistry*	2	7
4	Humanities	1	3
5	Communication	2	6
6	Energy & Environmental Engineering	1	2
7	Professional Ethics	1	3
8	<i>Engineering Graphics</i>	<i>1</i>	<i>3</i>
9	<i>Engineering Practice</i>	<i>1</i>	<i>2</i>
10	Basic Engineering	2	4
11	Introduction to computer Programming*	1	3
12	Branch Specific Course (Introduction to the Branch of study)**	1	2
13	<i>Summer Internship</i>	<i>1</i>	<i>2</i>
14	<i>Project work</i>	<i>1</i>	<i>6</i>
15	<i>Comprehensive viva</i>	<i>1</i>	<i>3</i>
16	<i>Industrial Lecture</i>	--	<i>1</i>
17	<i>NSS/NCC/NSC</i>	--	<i>0</i>
Total		17 (excluding <i>Italic</i> )	51+17=68

\*- including Lab

\*\*- will be commence during Orientation Programme

**II. Programme Core (PC)**

Range of number of core courses: 16 – 20

Range of credits : 56 -65

**III. Elective Courses :**

Range of number of electives: 10-15

Range of credits: 30-50

(a) Programme Electives (PE) (Major) – at least 3 courses

(b) Open Electives (OE)

(c) Minor (MI) – 5 courses

(d) A student should be allowed a minimum of 50% of the total electives of a programme from (b) and (c), if so desired by the student.

#### **IV. Essential Programme Laboratory Requirement (ELR): 10 – 16**

**Total Credits: 175 to 180**

- (a) A student can register a maximum of six theory courses in a session in II year and seven theory courses from his/her third year onwards. The Maximum number of ELR is two per session.
- (b) A student shall obtain a degree stating the Minor subject, if credits of at least five minor electives on a given subject are earned. It is also possible to choose assorted electives in which case the student does not earn a particular minor.
- (c) Project work is scheduled during the VIII regular session of the respective B.Tech. programme. In order to promote interdisciplinary culture, a team of maximum four students from various departments can be formed with the permission of the Heads of Departments concerned in the second year itself. The project guide/s for such projects shall be from one or more among the departments to which the students belong. Co-guide from industry is also permitted.
- (d) In general, the first year of study will have common curriculum.

#### **B.4.1 Course Plan**

- (a) The course plan (GIR, PC, PE, Minors, ELR) will have details of the overview of the course, course objectives, course outcome, course teaching and learning activities and course assessment methods and reassessment policy.
- (b) Each course will have tailor-made assessment models viz. group tasks, assignments, report on field visit, quizzes, open book tests, laboratory exercises, mini-project and end of session summative assessment etc. The course plan will also have details of attendance requirements, academic integrity and plagiarism and information on study materials.
- (c) The course plan shall be approved by the class committee chairperson(CC) and the HoD of the Department offering the course. A copy approved by the CC and the HoD shall be sent to the Academic Office.
- (d) The Course plans for all courses offered by the Institute will be available in the intranet site for reference by the faculty and students.

#### **B.4.2. B.Tech. (Honours)**

A student can obtain B.Tech. (Honours) degree provided the student has;

- Registered at least for 12 theory courses and 2 ELRs in the second year.
- Consistently obtained a minimum GPA of 8.5 in the first four sessions.
- Continue to maintain the same GPA of 8.5 in the subsequent sessions (including the Honours courses)
- Completed 3 additional theory courses specified for the Honours degree of the programme.
- Completed all the courses registered, in the first attempt and in four years of study.

#### **B.5 REGISTRATION AND ENROLMENT**

- (a) Except for the first session of the first year, registration for a session will be done during the last month of the previous session. Late registration / enrolment will be permitted with a fine of Rs. 250/- up to two weeks from the last date specified for registration.
- (b) A student will be eligible for enrolment only if he / she has cleared all the dues to the Institute, Hostel, Library and the NCC Unit till the end of the previous session, provided he/she is not debarred for enrolment by disciplinary action committee of the Institute.
- (c) The registration sheet contains the course number, course name, number of credits and category for each course taken in that session. The student makes the choice of courses in consultation with his Faculty Adviser.
- (d) A student is expected to register for credits in the range 18-25 in January/July Session. Students who have not completed the courses in the regular session (F and V grades) and have to REDO the courses can register for 6-9 credits in the summer session. If a student finds his / her academic/course load heavy in any session, or for any other valid reason, he / she may drop courses within three weeks of the commencement of the session but before commencement of first assessment with the written approval of his / her Faculty Adviser & Head of the department.

#### **B.6 FACULTY ADVISER**

To help the students in planning their courses of study and to render general advice regarding either the academic programme or any other activity, the Head of the Department concerned, will assign every year, a certain number of students from the first year to a faculty member who will be called Faculty Adviser. The set of students thus

assigned will continue to be under the guidance of this Faculty Adviser till they complete the programme or replaced by the HOD.

## **B.7 ASSESSMENT PROCEDURE**

- (a) Each **COURSE** shall have assessments done according to the Course Plan drawn by the faculty who handles the course (B4.1). The assessments of a course will depend on the needed course learning outcomes.

### **(b) COMPREHENSIVE EXAMINATION**

The comprehensive examination in the IV year of study shall have two written tests of 25 marks each. The final examination and viva-voce shall have 25 marks each. The examination will be of objective type similar to the GATE examination. A department committee comprising the Head of the Department or his/her nominee and two senior faculty members of the department shall conduct the examinations. The Viva-voce examination will be conducted by a panel of examiners consisting of the department committee and one external expert, preferably, from the Industry.

### **(c) INTERNSHIP / INDUSTRIAL TRAINING / ACADEMIC ATTACHMENT/ INDUSTRIAL LECTURES**

- i. The student should undergo industrial training/internship for a minimum period of two months during the summer vacation of 3<sup>rd</sup> year. Attachment with an academic institution within the country (IISc/ IITs/NITs/IITs and CFTIs) or university abroad is also permitted instead of industrial training. A report is to be submitted to the Head of the Department and evaluation (2 credits) will be based on the report and viva-voce examination. The examiners for the viva-voce examination shall be the Head of the Department and the program coordinator or their nominees.
- ii. A course based on industrial lectures shall be offered for 1 credit. A minimum of five lectures of two hours duration by industry experts will be arranged by the Department. The evaluation methodology, will in general, be based on quizzes at the end of each lecture. Due weightage shall be given to attendance also. However, the HoD or his nominee may devise suitable methodology for evaluation and the same should be informed to the students before the commencement of the session.

### **(d) NCC/ NSS/ NSO TRAINING**

NCC/ NSS/ NSO training is compulsory for all the Undergraduate students:

- i. The activities will include Practical / Field activities / Extension lectures. The activities shall be beyond class hours.
- ii. The student participation shall be for a minimum period of 45 hours per session during

- the first year.
- iii. The activities will be monitored by the respective faculty in charge and the First Year Coordinator.
  - iv. Grades will be awarded on the basis of participation, attendance, performance and behavior. Grades shall be entered in the mark statement as given below :  
VERY GOOD, GOOD, SATISFACTORY and UNSATISFACTORY
  - v. If a student gets an unsatisfactory Grade, he/she has to repeat the above activity in the subsequent years, along with the first year students.
  - vi. The Grades awarded by the Faculty in-charge shall be entered in the January Session of first year Mark Statement.
  - vii. A student who has not completed the NCC / NSO / NSS requirements in first four sessions will not be permitted to continue the B.Tech. Programme.

**(e) Project work**

- i. The project evaluation for the B.Tech. programme shall be carried out by a Project committee(PC) comprising, the Head of the Department or his/her nominee(Chairman), project coordinator (Professor/Associate Professor) and the project guide/s.
- ii. The continuous assessment of the project work is as follows:

<b>Internal assessment</b>	<b>Marks</b>	<b>Schedule</b>
Preliminary Review	10	Two weeks from the commencement of the session
Review I	20	Six weeks from the commencement of the session
Review II	20	Ten weeks from the commencement of the session

- iii. The final project viva voce shall be conducted by the Project Committee (Guide and HoD or his/her nominee) along with an external examiner from IITs/IISc/NITs/CSIR Labs/Government Research Laboratories/Government and Government aided Institutions/Public sector undertaking.
- iv. Permission for project work in the second year of the B.Tech. programme in general will be given to innovative and industry related work. Such projects will be evaluated in every session until the VIII session. If the evaluation committee is satisfied with the progress of the project work, an 'X' – continuation grade will be given for the project work until the final assessment is made in the VIII session. In case, there is no tangible progress in a session, such project work will be terminated and the students will have to do their project in the final year in their respective departments

**B.7.1 FORMATIVE ASSESSMENT**

Formative assessment is tailor-made for each student and each course.



- i. Students who have failed during the regular assessment of a course or lab with an 'F' grade may register for Formative Assessment instead of redoing the course.
- ii. The letter grade 'R' is awarded on satisfactory completion of formative assessment with a grade point of 5, which is same as the minimum grade point awarded in the regular assessment.
- iii. If a student does not satisfactorily complete the formative assessment, a letter grade 'I' is awarded which does not carry any grade point.
- iv. A student who has been awarded an 'I' grade must convert it to an 'R' grade by registering subsequently for formative assessment. The student should successfully complete the formative assessment within the maximum stipulated period of the B.Tech. programme.
- v. A student who willfully does not convert 'I' grade to 'R' grade during his maximum period of stay in the Institute(6 years) due to gross negligence, shall be automatically awarded 'FF' grade with 2 Grade Points for the course and his CGPA shall be computed accordingly.
- vi. Not less than 10 contact hours per course are required for completing the formative assessment. This will result in not less than 30 preparation hours for the student.
- vii. There is no minimum threshold of marks for satisfactory completion of the formative assessment. For successful completion of formative assessment, the student should complete the assigned tasks to the satisfaction of the faculty member who is assessing the student. In this process, the faculty member may use marks to quantify the performance of the student.

#### **B.7.2 REGISTRATION FOR THE FORMATIVE ASSESSMENT**

- i. Registration for the formative assessment will be done in the respective departments offering the courses.
- ii. Students who have left the Institute can register at the beginning of the sessions and during the vacations.
- iii. Current students can only register during the vacations.
- iv. Students who have left the Institute can register for a maximum of six theory courses and two laboratory courses during any one session.
- v. Current students and the students who have left the Institute can register for two theory courses during the winter vacation, and six theory courses during the summer vacation. In addition, they can register for two laboratory courses during each vacation.
- vi. Students should register for and complete the formative assessment of the lower session courses before registering for the higher session courses.
- vii. Withdrawal from the formative assessment is not permitted. Any Student who fails to complete the formative assessment will retain the 'I' grade.
- viii. Students who have not attended the regular classes to the satisfaction of the course teacher and have been awarded a V grade, cannot register for FA.

## **B.8 CLASS COMMITTEE**

### **(a) CONSTITUTION OF THE CLASS COMMITTEE**

For all the branches of study during the first year, a common class committee will be constituted by the Dean (Academic) and for other years, separate class committees will be constituted by the respective Heads of Departments, as given below:

#### **THE FIRST YEAR CLASS COMMITTEE**

**Chairman:** A faculty member, not teaching the first year class is to be nominated by the Chairman of the Senate.

#### **Members**

1. Course coordinators of each lecture based course.
2. One student member from each section to be nominated by the First Year Coordinator.

#### **II TO IV YEAR CLASS COMMITTEES**

**Chairman:** A faculty member not teaching that particular class is to be nominated by the Head of the Department concerned.

#### **Members**

1. Faculty of all the courses of study
2. Four student members from the class concerned to be nominated by the Head of the Department concerned.

### **(b) FUNCTIONS OF THE CLASS COMMITTEE**

- (1) The class committee shall meet thrice during the session. The first meeting will be held within two weeks from the date of commencement of the session in which the nature of the broad assessment procedure for the different courses will be discussed. The second and third meetings will be held six weeks and ten weeks respectively from the commencement of a session to meaningfully interact and express opinions and suggestions to improve the effectiveness of teaching - learning process and analyze the performance of the students in the assessments. The chairman of the class committee should send the minutes of the class committee meetings to the Dean (Academic) through

the Head of the Department, immediately after the class committee meetings.

- (2) During the first meeting of the class committee, all the faculty members shall give their course plan to the class committee chairperson for approval and uploading into the course plan intranet site.
- (3) Any innovation in any course plan not agreed by the class committee or the HoD will be referred to the Chairman of the Senate for approval.

## **B.9 ATTENDANCE**

The course plan will outline the attendance requirements expected of a student to make him/her eligible to earn the credits of the particular course. Students who have not satisfied the attendance requirements of the course, shall be awarded a 'V' grade for the course.

## **B.10 REASSESSMENTS**

The course plan shall outline the policy and eligibility criteria for reassessment for those students who miss the regular assessment process or had performed poorly, during the course due to genuine reasons.

## **B.11 TEMPORARY BREAK OF STUDY FROM THE PROGRAMME**

A student may be permitted by the Dean (Academic) to withdraw from the programme for one year on valid reasons on the recommendation of Head of the Department. Such a student on rejoining will be governed by the rules under section B.14.

## **B.12 GRADING**

- a) The Institute follows relative grading with flexibility given to teachers to decide the mark ranges for grades. All assessment of a course will be done on the basis of marks.
- b) Teachers can adopt any one of the following logical methods to decide the grades.
  - i. Normalized curve
  - ii. z-score
- c) In general, the S grade is restricted to a maximum of 10% of the total number of students registered for the course. However, for ELR, Project work and Branch specific course (I year), the number of students getting the highest grade beyond this limit will be decided by the PAC.
- d) The grading structure adopted by the teacher for the course handled by him/her, is subject to the scrutiny of the PAC and subsequently the Senate.

- e) Any issues related to Grading will be decided by the Dean (Academic) in consultation with the Chairman of the Senate.

### B.12.1 Description of grades and grade points

- i. The Performance Analysis Committee, shall meet within seven days after the completion of all examinations in a session. The committee shall analyze the relative cumulative performance of the students in all assessments of a course and finalize the mark ranges for the letter grades of the course.
- ii. The letter grades and the corresponding grade points are as follows:

Letter	S	A	B	C	D	E, R	F, I	V	FF	X
Grade (GP)	10	9	8	7	6	5	-	-	2	-

- a) Students scoring less than the passing minimum marks in the assessments defined in the course plan shall be deemed to have not successfully completed the course and be given an 'F' grade.
- b) Students awarded F grade may REDO the course or opt for formative assessment [B7(e)].
- c) 'V' indicates lack of required attendance. Students awarded 'V' grade must compulsorily redo the course.
- d) 'I' grade indicates incompleteness of formative assessment.
- e) A student who gets an 'I' grade must necessarily convert it to a 'R' grade by completing the formative assessment.
- f) An 'FF' grade is awarded for not completing the formative assessment in the prescribed maximum period of study due to gross negligence. An 'FF' grade will have a grade point of 2 and it will remain on the grade card permanently. This will be used in the CGPA calculations.
- g) A student who earns a minimum of 5 grade points (a 'E' grade or a 'R' grade) in a course is declared to have successfully completed the course.

### B.13 PERFORMANCE ANALYSIS COMMITTEE (PAC)

The Performance Analysis Committee will consist of the same members as the class committee but also includes the Head of the Department and excludes the student members. The meeting of the PAC is to be held within seven days from the last day of the

last assessment to analyze the performance of the students in all courses of study and finalize the grade ranges for each course. The statement of grades shall be forwarded to the Dean (Academic) immediately after the meeting, through the Head of the Department. The PAC, by collective wisdom, should ensure that the clustering / grading / pass-fail decisions are reasonable.

The attendance registers of all the courses along with the assessment marks, grades and grade-ranges entered in the register are also to be sent to the Dean (Academic) immediately through the Head of the Department.

The Dean (Academic) shall go through the statement of grades (and the attendance register). In case of any problem that cannot be set right by the Dean (academic), the Chairman (Senate) is authorized to take appropriate action in this regard. The results will be declared by the Dean (Academic) through MIS.

#### **B.14 MOVEMENT TO HIGHER SESSION**

- a) A student who is permitted to discontinue may rejoin the course at the appropriate session only along with the regular students at the time of normal commencement of that session.
- b) A student who discontinues and rejoins shall be governed by the rules, regulations, courses of study and syllabus in force, at the time of his/her rejoining the course.

#### **B.15 REVALUATION OF ANSWER PAPERS**

Students can review all his/her the valued answer scripts of the assessments (excluding laboratory examinations), and can get them retalled/revalued by the faculty member concerned. This may or may not change the grades. The teacher shall forward a revised grade, to the Dean (Academic) through the Head of the Department and the Chairman, Performance Analysis Committee, if such a necessity arises.

However, if there is any grievance in the valuation of an assessment task, which is not settled by the Faculty in charge of the course / Head of the Department, the Dean (Academic) after verifying whether the grievance is genuine can recommend to the Chairman of the Senate for appropriate remedial measures.

The entire revaluation process has to be completed within four weeks from the date of publication of results or 2 weeks after reopening of the institution for the next session whichever is later. Any request by the students after this period will not be considered.

**B. 15.1 RETENTION OF ASSESSMENT MATERIAL**

All assessment materials not returned to the students but were used for awarding grades in a course will be retained by the concerned faculty member for a period of six months from the date of the publication of the results. Afterwards the material will be disposed off/destroyed permanently by the faculty member.

**B.16 COURSE REPETITION**

- A student who earned 'V' grade in a core course must repeat it when the course is offered in a subsequent session. A student who earned a 'V' grade in an elective course may choose another elective in a subsequent session.
- A student securing an 'I' grade in any course necessarily has to register for and successfully complete the formative assessment of the course.
- A course successfully completed cannot be repeated.

**B.17 GRADE CARDS**

- After the results are declared, Grade Cards will be issued to each student which will contain the list of courses for that session and the grades obtained by the student.
- The Grade Point Average (GPA) for each session will be calculated only for those students who have passed all the registered courses of that session. Similarly Cumulative Grade Point Average (CGPA) upto any session will be calculated only for those students who have passed all the courses up to that session.  
GPA is the ratio of the sum of the products of the number of credits of a course ( $C_i$ ) and the grade points scored in that course ( $GP_i$ ), taken for all the courses, to the sum of the number of credits of all the courses ( $n$ ) in the session.

$$GPA = \frac{\sum_1^n C_i * GP_i}{\sum_1^n C_i}$$

where  $n$  is the number of courses in that session.

- On successful completion of the programme, the CGPA will be calculated as follows:

$$CGPA = \frac{\sum_1^N C_i * GP_i}{\sum_1^N C_i}$$

where  $C_i$  is the credit and  $GP_i$  is the grade point obtained by the student and  $N$  is the total number of courses for the entire programme.

## **B.18 ELIGIBILITY FOR THE DEGREE**

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

1. 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 duration of 6 years.
2. has earned a CGPA of not less than 5
3. has no dues to the Institution, Library, Hostels, etc.
4. has no disciplinary action pending against him/her.

A student shall obtain a degree stating the Minor subject, if credits of at least five minor electives on a given subject are earned.

## **B.19 CLASSIFICATION**

(a) A student who has a CGPA of 5 or above at the end of the period of study will be awarded the B.Tech. degree.

(b) Students who have completed all the courses in the first attempt and in four years and have completed the requirements as per B4(i) and have a CGPA of 8.5 and above shall be awarded B.Tech. (Honors) degree.

(c) In addition to B.19 (a & b), students who have successfully completed five minor electives in a given subject, shall have the minor mentioned in the degree.

## **B.20 CONSOLIDATED STATEMENT OF GRADES**

At the end of the programme, all successful students will be provided with a consolidated statement of grades which will contain the following particulars:

- (a) List of courses and grades obtained &
- (b) CGPA

## **B.21 GENERAL CONDUCT OF STUDENTS IN THE EXAMINATION HALLS/LABORATORIES**

Students should abide by the restrictions imposed by the course faculty member inside the examination hall/laboratories.

**B.22 RAGGING**

*Ragging in any form is a Criminal and Non-bailable offence. If any incident of ragging comes to the notice of the authority, severe action including dismissal from the Institute and fine of Rs 10,000/- shall be imposed, if the student is proved guilty. Since, ragging is a cognizable offence imprisonment upto two years may also be imposed by the competent authority.*

**B.23 DISCIPLINARY and APPEALS COMMITTEE**

This Committee is constituted for the smooth functioning of the various autonomous Under-graduate Programmes of the Institute and it consists of the following members:

Dean (Academic)	Convener
Dean (Students)	Member
Respective Head of the Department / First Year Coordinator	Member
Associate Dean(UG)	Member

This Committee will look into all issues related to course plan, academic discipline and attendance. The Committee will meet as and when necessary and recommend remedial or punitive actions wherever necessary to the Chairman of the Senate.

**B.24 REVISION OF REGULATIONS AND CURRICULUM**

The Senate may from time to time revise, amend or alter the regulations, courses of study and syllabus as and when found necessary. Any other relevant rules needing urgent revisions can be framed and implemented by the Director/Chairperson of the Senate and ratified in the subsequent Senate meeting. In case of difference of opinion regarding the interpretation of any of the regulations, the decision of the Chairperson of the Senate shall be final.

**B.25 POWER TO MODIFY**

Notwithstanding all that has been stated above, the Senate has the right to approve any modifications brought out at a later date.