



JNTU COLLEGE OF ENGINEERING HYDERABAD
(Autonomous)
Kukatpally, Hyderabad – 500085

ACADEMIC REGULATIONS 2013 FOR B.Tech. REGULAR COURSES

(Effective for the students admitted into I year from the Academic Year **2013-14** and onwards)

1. Award of B.Tech. Degree

A student will be declared eligible for the award of the B. Tech. Degree if he fulfils the following academic regulations:

- i. **Pursued a course of study for not less than four academic years and not more than eight academic years.**
- ii. Registered for **212 credits** and secured **204 credits**

2. Students, who fail to fulfill all the academic requirements for the award of the degree within eight academic years from the year of their admission, shall forfeit their seat in B.Tech. course.

3. Courses of study :

- i. The following courses of study are offered at present for specialization for the B. Tech. Course

S.No.	Branch
I.	Civil Engineering.
II.	Computer Science and Engineering.
III.	Electrical and Electronics Engineering.
IV.	Electronics and Communication Engineering.
V.	Mechanical Engineering.
VI.	Metallurgical Engineering

ii. Course Nomenclature :

S.No	Group/Category/Component	Description
1)	BS – Basic Sciences	Includes - Mathematics, Physics and Chemistry Subjects
2)	EAS - Engineering Arts and Sciences	Include fundamental engineering subjects
3)	HSS – Humanities and Social Sciences	Includes subjects related to Humanities, Social Sciences and Management
4)	DE – Departmental Electives	Includes Elective subjects related to the parent discipline, department or branch of engineering
5)	DC – Departmental Core	Includes core subjects related to the parent discipline, department or branch of engineering
6)	OE – Open Electives	Elective subjects which include interdisciplinary subjects or subjects in an area outside the parent discipline, department or branch of engineering
7)	MC – Minor Courses	Minor courses 2 credit theory courses.
8)	Project	B.Tech. Project or UG Project or UG Major Project
9)	Industrial Training/ Mini Project	Industrial Training/ Internship/ UG Mini Project/ Mini Project
10)	Seminar	Seminar / Colloquium based on UG Industrial Training or Internship or Mini Project
11)	Comprehensive Viva	Comprehensive Viva based on all Subjects

4. Distribution and Weightage of Marks

- i. The performance of a student in each semester shall be evaluated subject-wise with **a maximum of 100 marks for theory, 75 marks for practical subject and 50 marks for minor course.** In addition, an Industry oriented Mini-Project, Seminar and Project Work shall be evaluated for **50, 50 and 200 marks** respectively.
- ii. For theory subjects the distribution shall be **30 marks for Internal Evaluation and 70 marks for the End-Examination.** For the mandatory courses, the distribution shall be 15 marks for internal evaluation and 35 marks for end examination.
- iii. For theory subjects, during the semester, there shall be **2 mid term examinations.** Each mid term examination consists of one

- objective paper for 10 marks, one subjective paper for 15 marks** with a **duration of 110 minutes (20 minutes** for objective and **90 minutes** for subjective paper), and one Assignment for 5 marks. Objective paper shall be set with multiple choice questions, true/false, fill-in the blanks, matching type questions, etc. for **10 marks**. In case of mandatory courses, there shall be only one subjective paper for 15 marks, for 90 minutes duration. Subjective paper shall contain 5 questions, out of which the student has to answer 3 questions, each for 5 marks. The first mid term examination shall be conducted for the first 50% of the syllabus, and second mid term examination shall be conducted for the remaining 50% of the syllabus. First Assignment should be submitted before the conduct of the first mid examinations, and the Second Assignment should be submitted before the conduct of the second mid examinations. The Assignments shall be as specified by the concerned subject teacher. The total marks secured by the student, in each mid term examination, are evaluated for 30 marks (or 15 marks as the case may be) and **the better of the two** mid term examinations shall be taken as the final marks secured by each candidate.
- iv. For practical subjects there shall be a continuous evaluation during the semester for **25 sessional marks and 50 end examination marks**. Out of the 25 marks for internals, **day-to-day work in the laboratory shall be evaluated for 15 marks**, and **two internal practical examinations each of 10 marks**, shall be conducted by the concerned laboratory teachers. The best **of two** internal exams shall be considered. The end examination shall be conducted at the end of the semester by two examiners appointed by Head of the Department.
- v. For the subject having design and/or drawing, (such as Engineering Graphics, Engineering Drawing, Machine Drawing, Production Drawing Practice, and Estimation), the distribution shall be **30 marks for internal evaluation (15 marks for day-to-day work and 15 marks for internal tests) and 70 marks for end examination**. There shall be **two internal tests** in a semester and the **better of the two** shall be considered for the award of marks for internal tests.
- vi. **Open Electives:** Students are to choose One Open Elective (OE-I) during 3rd Year I-Semester and another Open Elective (OE-II) during 3rd year II-Semester from the corresponding list of Open Electives given. However, students can not opt for an Open Elective subjects offered by their own department, if it is already listed under core / elective subjects offered by that department in any semester.
- vii. There shall be an **Industry oriented Mini-Project**, in collaboration with an Industry of their specialization, to be taken up during the summer vacation for about **eight weeks** after III year II Semester examinations. The **Mini Project shall be evaluated during the IV year I Semester**. The industry oriented mini project shall be submitted in report form and a presentation of the same shall be made before a Committee, which shall be evaluated for **50 marks**. The committee consists of Head of the Department, the supervisor of mini project and a senior faculty member of the department. There shall be **no internal marks for Industry oriented Mini Project**.
- viii. There shall be a **Seminar presentation in IV year I Semester**. For the seminar, the student shall collect the information on a specialized topic and prepare a technical report, showing his understanding of the topic, and submit to the department, which shall be evaluated by two faculty members appointed by Head of the Department. The seminar report shall be evaluated for **50 marks**. There shall be **no external examination for seminar**.
- ix. There shall be a Comprehensive Viva-Voce in IV year II semester. The Comprehensive Viva-Voce will be conducted by a Committee consisting of the Head of the Department and two Senior Faculty members of the Department. The Comprehensive Viva-Voce is aimed to assess the student's understanding in various subjects he studied during the B.Tech course of study. The Comprehensive Viva-Voce is evaluated for 50 marks by the Committee. There are no internal marks for the Comprehensive viva-voce.
- x. The Project work shall be started by the student during the IV year I Semester. Out of a total of **200 marks** for the project work, **60 marks shall be for Internal Evaluation and 140 marks for the End Semester Examination**. The End Semester Examination (viva-voce) shall be conducted by a Committee comprising of an External Examiner, Head of the Department and the project supervisor. Out of 60 marks allocated for internal evaluation, 30 marks shall be awarded by the Project supervisor (based on his continuous performance evaluation of the student), and the other 30 marks shall be awarded by a departmental committee consisting of Head of the Department and Project supervisor based on the presentations made by the student on the progress of the project at the time of 4th Year II semester I & II - Mid examinations.
- xi. For NCC/ NSS Programmes offered in the I Year, Participation Certificate (from the concerned authorities) for each semester is mandatory. No marks or grades shall be allotted for these activities.

5. Attendance Requirements

- i. A student shall be eligible to appear for the end semester examinations, if he acquires a **minimum of 75% of attendance in aggregate of all the subjects** for that semester.
- ii. Condonation of shortage of attendance in aggregate **up to 10% (65% and above and below 75%)** in a semester may be granted by the College Academic Committee on genuine grounds based on medical grounds with sufficient medical proof.
- iii. A student will not be permitted to write the end examination and hence not promoted to the next semester, unless he satisfies the attendance requirement of the present semester, as applicable. They may seek re-admission for that semester when offered next.
- iv. Shortage of Attendance **below 65% in aggregate** shall in **NO case be condoned**.
- v. Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examinations of that semester.
- vi. A stipulated fee shall be payable towards condonation of shortage of attendance.

6. Minimum Academic Requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item No.5.

- i. A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to each theory or practical design or drawing subject or Major Project, if he secures **not less than 35% (25 out of 70 marks, or 13 out of 35, or 18 out of 50, as the case may be) of marks in the end examination and a minimum of 40% of marks in the sum total of the internal evaluation and end examination taken together**.
- ii. A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to - Industry oriented Mini-Project/ Seminar/ Comprehensive viva, if he secures not less than 40% of the total marks (20 marks) to be awarded for each. The student would be treated as failed, if he - (i) does not submit a report on his industry oriented mini project or does not make a presentation of the same before the Committee as per schedule, or (ii) does not present the Seminar as required in the IV year II Semester or (iii) secures less than 40% of marks (20 marks) in industry oriented mini project/ seminar/ comprehensive viva. He may reappear once for each of the above evaluations, as and when it is scheduled again; if he fails in such

'one reappearance' evaluation also, he may again reappear for the same in the next subsequent semester when it is scheduled.

- iii. A student shall be **promoted from II to III year** only if he fulfils the academic requirement **40 credits from two regular and one supplementary examinations of I year I semester and One Regular & One Supplementary exam of I year II semester, and one regular examination of II year I semester**, irrespective of whether the candidate takes the examinations or not.
- iv. A student shall be **promoted from III year to IV year** only if he fulfils the academic requirements of total **67 credits from the following examinations**, whether the candidate takes the examinations or not.
 - (a) Three regular and two supplementary examinations of I B Tech – I Semester,
 - (b) Two regular and two Supplementary examinations for I B Tech II Semester,
 - (c) Two regular and one supplementary examinations of II year – I Semester,
 - (d) One regular and one supplementary examinations of II year II semester,
 - (e) One regular examination of III year I semester.
- v. A student shall register and put up minimum academic requirement in all 212 credits and earn 204 credits out of these 212 credits; an exemption of 8 credits being permitted for optional drop out from these 212 credits except for the courses listed below :
 1. All Laboratories oriented
 2. Industrial Mini Project
 3. Seminar
 4. Comprehensive Viva-Voce
 5. Major Project
 Marks obtained in all 204 credits shall be considered for the calculation of percentage of marks.
- vi. Students who fail to earn 204 credits as indicated in the course structure **within eight academic years** from the year of their admission shall **forfeit their seat** in B.Tech. Course and their **admission shall stand cancelled**.

7. Course pattern

- i. The entire course of study is of four academic years, comprising of 8 semesters. **All the I, II, III and IV years are on two-semester pattern. Each semester shall be of 22 weeks duration (inclusive of examinations).**
- ii. A student eligible to appear for the end examination in a subject, but absent at it or has failed in the end examination may appear

for that subject at the supplementary examination whenever conducted.

- iii. When a student is detained due to shortage of attendance in any semester, he may be re-admitted into that semester when it is next offered, **with the academic regulations of the batch into which he got readmitted.**
- iv. When a student is detained due to lack of credits in any year, he may be readmitted into the next year after fulfillment of the academic requirements, **with the academic regulations of the batch into which he got readmitted.**

8. Grading Procedure

- (i) Marks will be awarded to indicate the performance of each student in each Theory Subject, or Lab/Practicals, or Seminar, or Project, or Mini Project etc., as specified in item 4 above, and a proportional letter grade shall be given.
- (ii) As a measure of the student's performance, a Grading System using the following letter grades and corresponding percentage of marks shall be followed

<i>% of Marks Secured</i>	<i>Letter Grade</i>
70% and above	A
Below 70% but not less than 60%	B
Below 60% but not less than 50%	C
Below 50% but not less than 40%	D
Below 40%	F

9. Award of Degree or Class

After a student has satisfied the requirements prescribed for the completion of the program and is eligible for the award of B. Tech. Degree he shall be placed in one of the following four classes

Class Awarded	% of marks to be secured	From the aggregate marks secured for the 204 Credits.
First Class with Distinction	70% and above	
First Class	Below 70% but not less than 60%	
Second Class	Below 60% but not less than 50%	
Pass Class	Below 50% but not less than 40%	
Fail	Below 40%	

(The marks in internal evaluation and end examination shall be shown separately in the marks memorandum).

10. Withholding of Results

If the student has not paid dues to University/College, or if any case of indiscipline is pending against him, the result of the candidate may be withheld and he will not be allowed to go into the next higher Semester. The award or issue of the Degree may also be withheld in such cases.

11. Transitory Regulations

Students who have discontinued or have been detained for want of attendance, or who have failed after having undergone the Degree Programme, may be considered eligible for readmission to the same or equivalent subjects as and when they are offered.

12. Minimum Instruction Days

The minimum instruction days for each semester shall be **90**.

13. There shall be **no branch transfers** after the completion of admission process.

14. There shall be **no transfer among the Constituent Colleges and Units** of Jawaharlal Nehru Technological University, Hyderabad.

15. General

- i. Where the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".
- ii. The academic regulations should be read as a whole for the purpose of any interpretation.
- iii. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor / Principal is final.
- iv. In the case of any error in the above rules and regulations, the decision of the Vice-Chancellor / Principal is final.
- v. The College may change or amend the academic regulations or syllabi at any time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the College.

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