



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by State Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

ACADEMIC REGULATIONS FOR B.TECH. REGULAR STUDENTS

WITH EFFECT FROM ACADEMIC YEAR 2018-19 (R-18)

1.0 Under-Graduate Degree Programme in Engineering & Technology (UGP in E&T)

Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers a 4-year (8 semesters) **Bachelor of Technology (B.Tech.)** degree programme, under Choice Based Credit System (CBCS) at its non-autonomous constituent and affiliated colleges with effect from the academic year 2018-19.

2.0 Eligibility for admission

2.1 Admission to the under graduate (UG) programme shall be made either on the basis of the merit rank obtained by the qualified student in entrance test conducted by the Telangana State Government (EAMCET) or the University or on the basis of any other order of merit approved by the University, subject to reservations as prescribed by the government from time to time.

2.2 The medium of instructions for the entire under graduate programme in Engineering & Technology will be **English** only.

3.0 B.Tech. Programme structure

3.1 A student after securing admission shall complete the B.Tech. programme in a minimum period of **four** academic years (8 semesters), and a maximum period of **eight** academic years (16 semesters) starting from the date of commencement of first year first semester, failing which student shall forfeit seat in B.Tech course. Each student shall secure 160 credits (with CGPA ≥ 5) required for the completion of the under graduate programme and award of the B.Tech. degree.

3.2 UGC/ AICTE specified definitions/ descriptions are adopted appropriately for various terms and abbreviations used in these academic regulations/ norms, which are listed below.

3.2.1 Semester scheme

Each under graduate programme is of 4 academic years (8 semesters) with the academic year divided into two semesters of 22 weeks (≥ 90 instructional days) each, each

semester having - ‘Continuous Internal Evaluation (CIE)’ and ‘Semester End Examination (SEE)’ under Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) indicated by UGC, and curriculum/course structure as suggested by AICTE are followed.

3.2.2 Credit courses

All subjects/ courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/ course in an L: T: P: C (lecture periods: tutorial periods: practical periods: credits) structure based on the following general pattern.

- One credit for one hour/ week/ semester for theory/ lecture (L) courses or Tutorials.
- One credit for two hours/ week/ semester for laboratory/ practical (P) courses.

Courses like Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization lab are mandatory courses. These courses will not carry any credits.

3.2.3 Subject Course Classification

All subjects/ courses offered for the under graduate programme in E&T (B.Tech. degree programmes) are broadly classified as follows. The University has followed almost all the guidelines issued by AICTE/UGC.

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1	Foundation Courses (FnC)	BS – Basic Sciences	Includes mathematics, physics and chemistry subjects
2		ES - Engineering Sciences	Includes fundamental engineering subjects
3		HS – Humanities and Social sciences	Includes subjects related to humanities, social sciences and management
4	Core Courses (CoC)	PC – Professional Core	Includes core subjects related to the parent discipline/ department/ branch of Engineering.
5	Elective Courses (ElC)	PE – Professional Electives	Includes elective subjects related to the parent discipline/ department/ branch of Engineering.
6		OE – Open Electives	Elective subjects which include inter-disciplinary subjects or subjects in an area outside the parent discipline/ department/ branch of Engineering.
7	Core Courses	Project Work	B.Tech. project or UG project or UG major project or Project Stage I & II
8		Industrial training/ Mini- project	Industrial training/ Summer Internship/ Industrial Oriented Mini-project/ Mini-project

9		Seminar	Seminar/ Colloquium based on core contents related to parent discipline/ department/ branch of Engineering.
10	Minor courses	-	1 or 2 Credit courses (subset of HS)
11	Mandatory Courses (MC)	-	Mandatory courses (non-credit)

4.0 Course registration

- 4.1 A ‘faculty advisor or counselor’ shall be assigned to a group of 20 students, who will advise the students about the under graduate programme, its course structure and curriculum, choice/option for subjects/ courses, based on their competence, progress, pre-requisites and interest.
- 4.2 The academic section of the college invites ‘registration forms’ from students before the beginning of the semester through ‘on-line registration’, ensuring ‘date and time stamping’. The on-line registration requests for any ‘current semester’ shall be **completed before the commencement of SEEs (Semester End Examinations) of the ‘preceding semester’**.
- 4.3 A student can apply for **on-line** registration, **only after** obtaining the ‘**written approval**’ from faculty advisor/counselor, which should be submitted to the college academic section through the Head of the Department. A copy of it shall be retained with Head of the Department, faculty advisor/ counselor and the student.
- 4.4 A student may be permitted to register for all the subjects/ courses in a semester as specified in the course structure with maximum additional subject(s)/course(s) limited to 4 credits, based on **progress** and SGPA/ CGPA, and completion of the ‘**pre-requisites**’ as indicated for various subjects/ courses, in the department course structure and syllabus contents.
- 4.5 Choice for ‘**additional subjects/ courses**’ must be clearly indicated, which needs the specific approval and signature of the faculty advisor/ counselor.
- 4.6 If the student submits ambiguous choices or multiple options or erroneous entries during **on-line** registration for the subject(s) / course(s) under a given/ specified course group/ category as listed in the course structure, only the first mentioned subject/ course in that category will be taken into consideration.
- 4.7 Subject/ course options exercised through **on-line** registration are final and **cannot** be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/ course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice either for a new subject (subject to offering of such a subject), or for another existing subject (subject to availability of seats). Such alternate arrangements will be made by the head

of the department, with due notification and time-framed schedule, within the **first week** after the commencement of class-work for that semester.

4.8 Dropping of subjects/ courses may be permitted, only after obtaining prior approval from the faculty advisor/ counselor 'within a period of 15 days' from the beginning of the current semester.

4.9 **Open electives:** The students have to choose three open electives (OE-I, II & III) from the list of open electives given. However, the student cannot opt for an open elective subject offered by his own (parent) department, if it is already listed under any category of the subjects offered by parent department in any semester.

4.10 **Professional electives:** The students have to choose six professional electives (PE-I to VI) from the list of professional electives given.

5.0 **Subjects/ courses to be offered**

5.1 A typical section (or class) strength for each semester shall be 60.

5.2 A subject/ course may be offered to the students, **only if** a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60 + 1/3 of the section strength).

5.3 More than **one faculty member** may offer the **same subject** (lab/ practical may be included with the corresponding theory subject in the same semester) in any semester. However, selection of choice for students will be based on - '**first come first serve** basis and CGPA criterion' (i.e. the first focus shall be on early **on-line entry** from the student for registration in that semester, and the second focus, if needed, will be on CGPA of the student).

5.4 If more entries for registration of a subject come into picture, then the Head of the Department concerned shall decide, whether or not to offer such a subject/ course for **two (or multiple) sections**.

5.5 In case of options coming from students of other departments/ branches/ disciplines (not considering **open electives**), first **priority** shall be given to the student of the '**parent department**'.

6.0 **Attendance requirements:**

6.1 A student shall be eligible to appear for the semester end examinations, if the student acquires a minimum of 75% of attendance in aggregate of all the subjects/ courses (excluding attendance in mandatory courses like Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization lab) for that semester. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. **This attendance should also be included in the fortnightly upload of attendance to the University.**

The attendance of Mandatory Non-Credit courses should be uploaded separately to the University.

- 6.2 Shortage of attendance in aggregate up to 10% (65% and above, and below 75%) in each semester may be condoned by the college academic committee on genuine and valid grounds, based on the student's representation with supporting evidence.
- 6.3 A stipulated fee shall be payable for condoning of shortage of attendance.
- 6.4 Shortage of attendance below 65% in aggregate shall in **no** case be condoned.
- 6.5 **Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester.** They may seek re-registration for all those subjects registered in that semester in which the student is detained, by seeking re-admission into that semester as and when offered; if there are any professional electives and/ or open electives, the same may also be re-registered if offered. However, if those electives are not offered in later semesters, then alternate electives may be chosen from the **same** set of elective subjects offered under that category.
- 6.6 A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class.

7.0 **Academic requirements**

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no.6.

- 7.1 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course, if student secures not less than 35% (26 marks out of 75 marks) in the semester end examination, and a minimum of 40% (40 marks out of 100 marks) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'C' grade or above in that subject/ course.
- 7.2 A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to Industrial Oriented Mini Project/Summer Internship and seminar, if the student secures not less than 40% marks (i.e. 40 out of 100 allotted marks) in each of them. The student is deemed to have failed, if he (i) does not submit a report on Industrial Oriented Mini Project/Summer Internship, or does not make a presentation of the same before the evaluation committee as per schedule, or (ii) does not present the seminar as required in the IV year I Semester, or (iii) secures less than 40% marks in Industrial Oriented Mini Project/Summer Internship and seminar evaluations.

A student may reappear once for each of the above evaluations, when they are scheduled again; if the student fails in such 'one reappearance' evaluation also, the student has to reappear for the same in the next subsequent semester, as and when it is scheduled.

7.3 Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	First year first semester to first year second semester	Regular course of study of first year first semester.
2	First year second semester to second year first semester	(i) Regular course of study of first year second semester. (ii) Must have secured at least 18 credits out of 37 credits i.e., 50% credits up to first year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3.	Second year first semester to second year second semester	Regular course of study of second year first semester.
4	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 47 credits out of 79 credits i.e., 60% credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Third year first semester to third year second semester	Regular course of study of third year first semester.
6	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 73 credits out of 123 credits i.e., 60% credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
7	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

- 7.4 A student (i) shall register for all courses/subjects covering 160 credits as specified and listed in the course structure, (ii) fulfills all the attendance and academic requirements for 160 credits, (iii) earn all 160 credits by securing SGPA ≥ 5.0 (in each semester), and CGPA (at the end of each successive semester) ≥ 5.0 , (iv) **passes all the mandatory courses**, to successfully complete the under graduate programme. The performance of the student in these 160 credits shall be taken into account for the calculation of ‘the final CGPA (at the end of under graduate programme), and shall be indicated in the grade card of IV year II semester.
- 7.5 If a student registers for ‘**extra subjects**’ (in the parent department or other departments/branches of Engg.) other than those listed subjects totaling to 160 credits as specified in the course structure of his department, the performances in those ‘**extra subjects**’ (although evaluated and graded using the same procedure as that of the required 160 credits) will not be taken into account while calculating the SGPA and CGPA. For such ‘**extra subjects**’ registered, percentage of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 – 7.4 above.
- 7.6 A student eligible to appear in the semester end examination for any subject/ course, but absent from it or failed (thereby failing to secure ‘**C**’ grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, internal marks (CIE) assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- 7.7 A student **detained in a semester due to shortage of attendance may be re-admitted in the same semester in the next academic year for fulfillment of academic requirements**. The academic regulations under which a student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which the student has been detained.
- 7.8 A student detained **due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits**. The academic regulations under which the student has been readmitted shall be applicable to him.
- 8.0 **Evaluation - Distribution and Weightage of marks**
- 8.1 The performance of a student in every subject/course (including practicals and Project Stage – I & II) will be evaluated for 100 marks each, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).
- 8.2 For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the descriptive paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for descriptive paper). The objective paper is set with 20 multiple choice, fill-

in the blanks and matching type of questions for a total of 10 marks. The descriptive paper shall contain 4 full questions out of which, the student has to answer 2 questions, each carrying 5 marks. While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus. Five marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two mid-term examinations shall be taken as the final marks secured by each student in Continuous Internal Evaluation. If any student is absent from any subject of a mid-term examination, an on-line test will be conducted for him by the University. The details of the end semester question paper pattern are as follows:

- 8.2.1** The semester end examinations (SEE) will be conducted for 75 marks consisting of two parts viz. i) **Part- A** for 25 marks, ii) **Part - B** for 50 marks.
- Part-A is a compulsory question consisting of ten sub-questions. The first five sub-questions are from each unit and carry 2 marks each. The next five sub-questions are one from each unit and carry 3 marks each.
 - Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an “either” “or” choice, which means that there will be two questions from each unit and the student should answer either of the two questions.
- 8.2.2** For subjects like **Engineering Graphics/Engineering Drawing**, the SEE shall consist of five questions. For each question there will be an “either” “or” choice, which means that there will be two questions from each unit and the student should answer either of the two questions. There shall be no Part – A, and Part – B system.
- 8.2.3** For subjects like **Machine Drawing Practice/Machine Drawing**, the SEE shall be conducted for 75 marks consisting of two parts viz. (i) Part – A for 30 marks. 3 out of 4 questions must be answered, (ii) Part – B for 45 marks. Part – B is compulsory.
- 8.2.4** For the Subject **Estimation, Costing and Project Management**, the SEE paper should consist of Part- A, Part-B and Part C. (i) Part – A – 1 out of 2 questions from Unit – I for 30 Marks, (ii) Part – B – 1 out of 2 questions from Unit – II for 15 Marks, (iii) Part – C – 3 out of 5 questions from Units – III, IV, V for 30 Marks.
- 8.2.5** For subjects **Structural Engineering – I & II (RCC & STEEL)**, the SEE will be conducted for 75 marks consisting of 2 parts viz. (i) Part – A for 15 marks and, (i) Part – B for 60 marks. Part – A is a compulsory question consisting of ten sub-questions. The first five sub-questions are from each unit relating to design theory and codal provisions and carry 2 marks each. The next five sub-questions are from each unit and carry 1 mark each. Part – B consists of 5 questions (numbered 2 to 6)

carrying 12 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there is either or choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

- 8.3** For practical subjects there shall be a continuous internal evaluation during the semester for 25 marks and 75 marks for semester end examination. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the University.
- 8.4** For the subject having design and/or drawing, (such as engineering graphics, engineering drawing, machine drawing, machine drawing practice and estimation), the distribution shall be 25 marks for continuous internal evaluation (15 marks for day-to-day work and 10 marks for internal tests) and 75 marks for semester end examination. There shall be two internal tests in a semester and the average of the two shall be considered for the award of marks for internal tests.
- 8.5** There shall be an Industrial Oriented Mini Project/Summer Internship, in collaboration with an industry of their specialization. Students will register for this immediately after III year II semester examinations and pursue it during summer vacation. Industrial Oriented Mini Project/Summer Internship shall be submitted in a report form and presented before the committee in IV year I semester. It shall be evaluated for 100 external marks. The committee consists of an external examiner, Head of the Department, supervisor of the Industrial Oriented mini project/Summer Internship and a senior faculty member of the department. There shall be no internal marks for Industrial Oriented Mini Project/Summer Internship.
- 8.6** There shall be a seminar presentation in IV year I semester. For the seminar, the student shall collect the information on a specialized topic, prepare a technical report, and submit it to the department. It shall be evaluated by the departmental committee consisting of Head of the Department, seminar supervisor and a senior faculty member. The seminar report shall be evaluated for 100 internal marks. There shall be no semester end examination for the seminar.
- 8.7** UG project work shall be carried out in two stages: Project Stage – I during IV Year I Semester, Project Stage – II during IV Year II Semester. Each stage will be evaluated for 100 marks. Student has to submit project work report at the end of each semester. First report includes project work carried out in IV Year I semester and second report includes project work carried out in IV Year I & II Semesters. SEE for both project stages shall be completed before the commencement of SEE Theory examinations.
- 8.8** For Project Stage – I, the departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall evaluate the project

work for 75 marks and project supervisor shall evaluate for 25 marks. The student is deemed to have failed, if he (i) does not submit a report on Project Stage - I or does not make a presentation of the same before the evaluation committee as per schedule, or (ii) secures less than 40% marks in the sum total of the CIE and SEE taken together.

A student who has failed may reappear once for the above evaluation, when it is scheduled again; if he fails in such 'one reappearance' evaluation also, he has to reappear for the same in the next subsequent semester, as and when it is scheduled.

- 8.9** For Project Stage – II, the external examiner shall evaluate the project work for 75 marks and the project supervisor shall evaluate it for 25 marks. The topics for industrial oriented mini project, seminar and Project Stage – I shall be different from one another. The student is deemed to have failed, if he (i) does not submit a report on Project Stage - II, or does not make a presentation of the same before the external examiner as per schedule, or (ii) secures less than 40% marks in the sum total of the CIE and SEE taken together.

For conducting viva-voce of project stage – II, University selects an external examiner from the list of experts in the relevant branch submitted by the Principal of the College.

A student who has failed may reappear once for the above evaluation, when it is scheduled again; if student fails in such 'one reappearance' evaluation also, he has to reappear for the same in the next subsequent semester, as and when it is scheduled.

- 8.10** The laboratory marks and the internal marks awarded by the college are subject to scrutiny and scaling by the University wherever necessary. In such cases, the internal and laboratory marks awarded by the college will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled accordingly. The recommendations of the committee are final and binding. The laboratory records and internal test papers shall be preserved in the respective institutions as per the University rules and produced before the committees of the University as and when asked for.
- 8.11** For mandatory courses of Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization lab, a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course. **These marks should also be uploaded along with the internal marks of other subjects.**
- 8.12** No marks or letter grades shall be allotted for mandatory/non-credit courses. Only Pass/Fail shall be indicated in Grade Card.

9.0 Grading procedure

- 9.1** Grades will be awarded to indicate the performance of students in each theory subject, laboratory / practicals, seminar, Industry Oriented Mini Project, and project Stage - I & II. Based on the percentage of marks obtained (Continuous Internal Evaluation plus

Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.

- 9.2 As a measure of the performance of a student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A⁺ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B⁺ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	Ab	0

- 9.3 A student who has obtained an ‘F’ grade in any subject shall be deemed to have ‘**failed**’ and is required to reappear as a ‘supplementary student’ in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.
- 9.4 To a student who has not appeared for an examination in any subject, ‘**Ab**’ grade will be allocated in that subject, and he is deemed to have ‘**failed**’. A student will be required to reappear as a ‘supplementary student’ in the semester end examination, as and when offered next. In this case also, the internal marks in those subjects will remain the same as those obtained earlier.
- 9.5 A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.
- 9.6 A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding ‘credit points’ (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit points (CP) = grade point (GP) x credits For a course

- 9.7 A student passes the subject/ course only when **GP ≥ 5** (‘C’ grade or above)

9.8 The Semester Grade Point Average (SGPA) is calculated by dividing the sum of credit points (ΣCP) secured from all subjects/ courses registered in a semester, by the total number of credits registered during that semester. SGPA is rounded off to **two** decimal places. SGPA is thus computed as

$$\text{SGPA} = \{ \sum_{i=1}^N C_i G_i \} / \{ \sum_{i=1}^N C_i \} \dots \text{For each semester,}$$

where 'i' is the subject indicator index (takes into account all subjects in a semester), 'N' is the no. of subjects '**registered**' for the semester (as specifically required and listed under the course structure of the parent department), C_i is the no. of credits allotted to the i^{th} subject, and G_i represents the grade points (GP) corresponding to the letter grade awarded for that i^{th} subject.

9.9 The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in **all** registered courses in **all** semesters, and the total number of credits registered in **all** the semesters. CGPA is rounded off to **two** decimal places. CGPA is thus computed from the I year II semester onwards at the end of each semester as per the formula

$$\text{CGPA} = \{ \sum_{j=1}^M C_j G_j \} / \{ \sum_{j=1}^M C_j \} \dots \text{for all S semesters registered}$$

(i.e., up to and inclusive of S semesters, $S \geq 2$),

where '**M**' is the **total** no. of subjects (as specifically required and listed under the course structure of the parent department) the student has '**registered**' i.e., from the 1st semester onwards up to and inclusive of the 8th semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the j^{th} subject, and G_j represents the grade points (GP) corresponding to the letter grade awarded for that j^{th} subject. After registration and completion of I year I semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA:

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	8	4 x 8 = 32
Course 2	4	O	10	4 x 10 = 40
Course 3	4	C	5	4 x 5 = 20
Course 4	3	B	6	3 x 6 = 18
Course 5	3	A+	9	3 x 9 = 27
Course 6	3	C	5	3 x 5 = 15
	21			152

$$\text{SGPA} = 152/21 = 7.24$$

Illustration of calculation of CGPA up to 3rd semester:

Semester	Course/Subject Title	Credits Allotted	Letter Grade Secured	Corresponding Grade Point (GP)	Credit Points (CP)
I	Course 1	3	A	8	24
I	Course 2	3	O	10	30
I	Course 3	3	B	6	18
I	Course 4	4	A	8	32
I	Course 5	3	A+	9	27
I	Course 6	4	C	5	20
II	Course 7	4	B	6	24
II	Course 8	4	A	8	32
II	Course 9	3	C	5	15
II	Course 10	3	O	10	30
II	Course 11	3	B+	7	21
II	Course 12	4	B	6	24
II	Course 13	4	A	8	32
II	Course 14	3	O	10	30
III	Course 15	2	A	8	16
III	Course 16	1	C	5	5
III	Course 17	4	O	10	40
III	Course 18	3	B+	7	21
III	Course 19	4	B	6	24
III	Course 20	4	A	8	32
III	Course 21	3	B+	7	21
	Total Credits	69		Total Credit Points	518

$$\text{CGPA} = 518/69 = 7.51$$

The above illustrated calculation process of CGPA will be followed for each subsequent semester until 8th semester. The CGPA obtained at the end of 8th semester will become the final CGPA secured for entire B.Tech. Programme.

- 9.10** For merit ranking or comparison purposes or any other listing, **only** the ‘**rounded off**’ values of the CGPAs will be used.
- 9.11** SGPA and CGPA of a semester will be mentioned in the semester Memorandum of Grades if all subjects of that semester are passed in first attempt. Otherwise the SGPA and CGPA shall be mentioned only on the Memorandum of Grades in which sitting he passed his last exam in that semester. However, mandatory courses will not be taken into consideration.

10.0 Passing standards

- 10.1 A student shall be declared successful or 'passed' in a semester, if he secures a GP ≥ 5 ('C' grade or above) in every subject/course in that semester (i.e. when the student gets an SGPA ≥ 5.00 at the end of that particular semester); and he shall be declared successful or 'passed' in the entire under graduate programme, only when gets a CGPA ≥ 5.00 for the award of the degree as required.
- 10.2 After the completion of each semester, a grade card or grade sheet shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will show the details of the courses registered (course code, title, no. of credits, grade earned, etc.), credits earned.

11.0 Declaration of results

- 11.1 Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9.
- 11.2 For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

$$\% \text{ of Marks} = (\text{final CGPA} - 0.5) \times 10$$

12.0 Award of degree

- 12.1 A student who registers for all the specified subjects/ courses as listed in the course structure and secures the required number of 160 credits (with CGPA ≥ 5.0), within 8 academic years from the date of commencement of the first academic year, shall be declared to have '**qualified**' for the award of B.Tech. degree in the chosen branch of Engineering selected at the time of admission.
- 12.2 A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.
- 12.3 A student with final CGPA (at the end of the under graduate programme) ≥ 8.00 , and fulfilling the following conditions - shall be placed in '**first class with distinction**'. However, he
- (i) Should have passed all the subjects/courses in '**first appearance**' within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
 - (ii) Should have secured a CGPA ≥ 8.00 , at the end of each of the 8 sequential semesters, starting from I year I semester onwards.
 - (iii) Should not have been detained or prevented from writing the semester end examinations in any semester due to shortage of attendance or any other reason.

A student not fulfilling any of the above conditions with final CGPA > 8 shall be placed in '**first class**'.

- 12.4 Students with final CGPA (at the end of the under graduate programme) ≥ 6.50 but < 8.00 shall be placed in '**first class**'.
- 12.5 Students with final CGPA (at the end of the under graduate programme) ≥ 5.50 but < 6.50 , shall be placed in '**second class**'.
- 12.6 All other students who qualify for the award of the degree (as per item 12.1), with final CGPA (at the end of the under graduate programme) ≥ 5.00 but < 5.50 , shall be placed in '**pass class**'.
- 12.7 A student with final CGPA (at the end of the under graduate programme) < 5.00 will not be eligible for the award of the degree.
- 12.8 Students fulfilling the conditions listed under item 12.3 alone will be eligible for award of '**Gold Medal**'.
- 13.0 **Withholding of results**
- 13.1 If the student has not paid the fees to the University at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld, and the student 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.
- 14.0 **Student transfers**
- 14.1 There shall be no branch transfers after the completion of admission process.
- 14.2 There shall be no transfers from one college/stream to another within the constituent colleges and units of Jawaharlal Nehru Technological University Hyderabad.
- 14.3 The students seeking transfer to colleges affiliated to JNTUH from various other Universities/institutions have to pass the failed subjects which are equivalent to the subjects of JNTUH, and also pass the subjects of JNTUH which the students have not studied at the earlier institution. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of JNTUH, the students have to study those subjects in JNTUH in spite of the fact that those subjects are repeated.
- 14.4 The transferred students from other Universities/institutions to JNTUH affiliated colleges who are on rolls are to be provided one chance to write the CBT (internal marks) in the **equivalent subject(s)** as per the clearance letter issued by the University.
- 14.5 The autonomous affiliated colleges have to provide one chance to write the internal examinations in the **equivalent subject(s)** to the students transferred from other universities/institutions to JNTUH autonomous affiliated colleges who are on rolls, as per the clearance (equivalence) letter issued by the University.
- 15.0 **Scope**
- 15.1 The academic regulations should be read as a whole, for the purpose of any interpretation.

- 15.2** In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- 15.3** The University may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the dates notified by the University authorities.
- 15.4** Where the words “he”, “him”, “his”, occur in the regulations, they include “she”, “her”, “hers”.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by State Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

ACADEMIC REGULATIONS FOR B.TECH. (LATERAL ENTRY SCHEME) FROM THE AY 2019-20

1. Eligibility for award of B. Tech. Degree (LES)

The LES students after securing admission shall pursue a course of study for not less than three academic years and not more than six academic years.

2. The student shall register for 123 credits and secure 123 credits with CGPA ≥ 5 from II year to IV year B.Tech. programme (LES) for the award of B.Tech. degree.
3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Tech.
4. The attendance requirements of B. Tech. (Regular) shall be applicable to B.Tech. (LES).

5. Promotion rule

S. No	Promotion	Conditions to be fulfilled
1	Second year first semester to second year second semester	Regular course of study of second year first semester.
2	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 25 credits out of 42 credits i.e., 60% credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3	Third year first semester to third year second semester	Regular course of study of third year first semester.
4	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester.

		(ii) Must have secured at least 51 credits out of 86 credits i.e., 60% credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

6. All the other regulations as applicable to B. Tech. 4-year degree course (Regular) will hold good for B. Tech. (Lateral Entry Scheme).

MALPRACTICES RULES

DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

	Nature of Malpractices/Improper conduct	Punishment
	If the student:	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which student is appearing but has not made use of (material shall include any marks on the body of the student which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or communicates through cell phones with any student or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the students involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted to

	practical) in which the student is appearing.	appear for the remaining examinations of the subjects of that semester/year. The hall ticket of the student is to be cancelled and sent to the University.
3.	Impersonates any other student in connection with the examination.	The student who has impersonated shall be expelled from examination hall. The student is also debarred and forfeits the seat. The performance of the original student who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the chief superintendent/assistant – superintendent / any officer on duty or	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that

	<p>misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.</p>	<p>subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.</p>
<p>7.</p>	<p>Leaves the exam hall taking away answer script or intentionally tears off the script or any part thereof inside or outside the examination hall.</p>	<p>Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.</p>
<p>8.</p>	<p>Possesses any lethal weapon or firearm in the examination hall.</p>	<p>Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.</p>

9.	If student of the college, who is not a student for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat. Person(s) who do not belong to the college will be handed over to the police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared for including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the student has appeared for including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award a suitable punishment.	

Malpractices identified by squad or special invigilators

1. Punishments to the students as per the above guidelines.
2. Punishment for institutions : (if the squad reports that the college is also involved in encouraging malpractices)
 - a. A show cause notice shall be issued to the college.
 - b. Impose a suitable fine on the college.
 - c. Shifting the examination centre from one college to another college for a specific period of not less than one year.

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GUIDELINES, RULES AND REGULATIONS OF THE CAMPUS

A. JNTUH RULES AND REGULATIONS

Academic Regulations for B.Tech. Regular Students with Effect from Academic Year 2018-19 (R-18)

1.0 Under-Graduate Degree Programme in Engineering & Technology (UGP in E&T)

Jawaharlal Nehru Technological University Hyderabad (JNTUH) offers a 4-year (8 semesters)

Bachelor of Technology (B.Tech.) degree program, under Choice Based Credit System (CBCS) at its non-autonomous constituent and affiliated colleges with effect from the academic year 2018-19.

Eligibility for admission

Admission to the under graduate (UG) program shall be made either on the basis of the merit rank obtained by the qualified student in entrance test conducted by the Telangana State Government (EAMCET) or the University or on the basis of any other order of merit approved by the University, subject to reservations as prescribed by the government from time to time.

The medium of instructions for the entire under graduate programme in Engineering & Technology will be **English** only.

B.Tech. Programme structure


A student after securing admission shall complete the B.Tech. program in a minimum period of **four** academic years (8 semesters), and a maximum period of **eight** academic years (16 semesters) starting from the date of commencement of first year first semester, failing which student shall forfeit seat in B.Tech course. Each student shall secure 160 credits (with CGPA \geq 5) required for the completion of the under graduate programme and award of the B.Tech. Degree.

UGC/ AICTE specified definitions/ descriptions are adopted appropriately for various terms and abbreviations used in these academic regulations/ norms, which are listed below.

Semester scheme

Each under graduate programme is of 4 academic years (8 semesters) with the academic year divided into two semesters of 22 weeks (90 instructional days) each, each semester having - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)' under Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) indicated by UGC, and curriculum/course structure as suggested by AICTE are followed.

Credit courses


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All subjects/ courses are to be registered by the student in a semester to earn credits which shall be assigned to each subject/ course in an L: T: P: C (lecture periods: tutorial periods: practical periods: credits) structure based on the following general pattern.

- One credit for one hour/ week/ semester for theory/ lecture (L) courses or Tutorials.
- One credit for two hours/ week/ semester for laboratory/ practical (P) courses.


Courses like Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization lab are mandatory courses. These courses will not carry any credits.

Subject Course Classification

All subjects/ courses offered for the under graduate programme in E&T (B.Tech. degree programmes) are broadly classified as follows. The University has followed almost all the guidelines issued by AICTE/UGC.

S. No.	Broad Course Classification	Course Group/ Category	Course Description
1		BS – Basic Sciences	Includes mathematics, physics and chemistry subjects
2	Foundation Courses (FnC)	ES - Engineering Sciences	Includes fundamental engineering subjects
3		HS – Humanities and Social sciences	Includes subjects related to humanities, social sciences and management
4	Core Courses (CoC)	PC – Professional Core	Includes core subjects related to the parent discipline/ department/ branch of Engineering.
5	Elective Courses (E/C)	PE – Professional Electives	Includes elective subjects related to the parent discipline/ department/ branch of Engineering.
6		OE – Open Electives	Elective subjects which include inter-disciplinary subjects or subjects in an area outside the parent discipline/ department/ branch of Engineering.
7	Core Courses	Project Work	B.Tech. project or UG project or UG major project or Project Stage I & II
8		Industrial training/ Mini- project	Industrial training/ Summer Internship/ Industrial Oriented Mini-project/ Mini-project
9		Seminar	Seminar/ Colloquium based on core contents related to parent discipline/ department/ branch of Engineering.
10	Minor courses	-	1 or 2 Credit courses (subset of HS)
11	Mandatory Courses (MC)	-	Mandatory courses (non-credit)

Course registration


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A 'faculty advisor or counselor' shall be assigned to a group of 20 students, who will advise the students about the under graduate program, its course structure and curriculum, choice/option for subjects/ courses, based on their competence, progress, pre-requisites and interest.

The academic section of the college invites 'registration forms' from students before the beginning of the semester through 'on-line registration', ensuring 'date and time stamping'. The on-line registration requests for any 'current semester' shall be **completed before the commencement of SEEs (Semester End Examinations) of the 'preceding semester'**.

A student can apply for **on-line** registration, **only after** obtaining the '**written approval**' from faculty advisor/counselor, which should be submitted to the college academic section through the Head of the Department. A copy of it shall be retained with Head of the Department, faculty advisor/ counselor and the student.

A student may be permitted to register for all the subjects/ courses in a semester as specified in the course structure with maximum additional subject(s)/course(s) limited to 4 credits, based on **progress** and SGPA/ CGPA, and completion of the '**pre- requisites**' as indicated for various subjects/ courses, in the department course structure and syllabus contents.

Choice for '**additional subjects/ courses**' must be clearly indicated, which needs the specific approval and signature of the faculty advisor/counselor.

If the student submits ambiguous choices or multiple options or erroneous entries during **on-line** registration for the subject(s) / course(s) under a given/ specified course group/ category as listed in the course structure, only the first mentioned subject/ course in that category will be taken into consideration.


Subject/ course options exercised through **on-line** registration are final and **cannot** be changed or inter-changed; further, alternate choices also will not be considered. However, if the subject/ course that has already been listed for registration by the Head of the Department in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to have alternate choice either for a new subject (subject to offering of such a subject), or for another existing subject (subject to availability of seats). Such alternate arrangements will be made by the head of the department, with due notification and time- framed schedule, within the **first week** after the commencement of class-work for that semester.

Dropping of subjects/ courses may be permitted, only after obtaining prior approval from the faculty advisor/ counselor 'within a period of 15 days' from the beginning of the current semester.

Open electives: The students have to choose three open electives (OE-I, II & III) from the list of open electives given. However, the student cannot opt for an open elective subject offered by his own (parent) department, if it is already listed under any category of the subjects offered by parent department in any semester.

Professional electives: The students have to choose six professional electives (PE-I to VI) from the list of professional electives given.

Subjects/ courses to be offered


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A typical section (or class) strength for each semester shall be 60.

A subject/ course may be offered to the students, **only** if a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60 + 1/3 of the section strength).registration in that semester, and the second focus, if needed, will be on CGPA of the student).

If more entries for registration of a subject come into picture, then the Head of the Department concerned shall decide, whether or not to offer such a subject/ course for **two (or multiple) sections**.

In case of options coming from students of other departments/ branches/ disciplines (not considering **open electives**), first **priority** shall be given to the student of the 'parent department'.

Attendance requirements:

A student shall be eligible to appear for the semester end examinations, if the student acquires a minimum of 75% of attendance in aggregate of all the subjects/ courses (excluding attendance in mandatory courses like Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization lab) for that semester. Two periods of attendance for each theory subject shall be considered, if the student appears for the mid-term examination of that subject. **This attendance should also be included in the fortnightly upload of attendance to the University.**

The attendance of Mandatory Non-Credit courses should be uploaded separately to the University.

Shortage of attendance in aggregate up to 10% (65% and above, and below 75%) in each semester may be condoned by the college academic committee on genuine and valid grounds, based on the student's representation with supporting evidence.

A stipulated fee shall be payable for condoning of shortage of attendance.

Shortage of attendance below 65% in aggregate shall in **no case** be condoned.

Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examinations of that semester. They get detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester. They may seek re-registration for all those subjects registered in that semester in which the student is detained, by seeking re-admission into that semester as and when offered: if there are any professional electives and/ or open electives, the same may also be re-registered if offered. However, if those electives are not offered in later semesters, then alternate electives may be chosen from the same set of elective subjects offered under that category.

A student fulfilling the attendance requirement in the present semester shall not be eligible for readmission into the same class.

Academic requirements

The following academic requirements have to be satisfied, in addition to the attendance requirements mentioned in item no.6.

A student shall be deemed to have satisfied the academic requirements and earned the

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credits allotted to each subject/ course, if student secures not less than 35% (26 marks out of 75 marks) in the semester end examination. and a minimum of 40% (40 marks out of 100 marks) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together; in terms of letter grades, this implies securing 'C' grade or above in that subject/ course.

A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to Industrial Oriented Mini Project/Summer Internship and seminar, if the student secures not less than 40% marks (i.e. 40 out of 100 allotted marks) in each of them. The student is deemed to have failed, if he (i) does not submit a report on Industrial Oriented Mini Project/Summer Internship, or does not make a presentation of the same before the evaluation committee as per schedule, or (ii) does not present the seminar as required in the IV year I Semester, or (iii) secures less than 40% marks in Industrial Oriented Mini Project/Summer Internship and seminar evaluations.

A student may reappear once for each of the above evaluations, when they are scheduled again; if the student fails in such 'one reappearance' evaluation also, the student has to reappear for the same in the next subsequent semester, as and when it is scheduled.

Promotion Rules

S. No.	Promotion	Conditions to be fulfilled
1	First year first semester to first year second semester	Regular course of study of first year first semester.
2	First year second semester to second year first semester	(i) Regular course of study of first year second semester. (ii) Must have secured at least 18 credits out of 37 credits i.e., 50% credits up to first year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3.	Second year first semester to second year second semester	Regular course of study of second year first semester.


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4	Second year second semester to third year first semester	(i) Regular course of study of second year second semester. (ii) Must have secured at least 47 credits out of 79 credits i.e., 60% credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	Third year first semester to third year second semester	Regular course of study of third year first semester.
6	Third year second semester to fourth year first semester	(i) Regular course of study of third year second semester. (ii) Must have secured at least 73 credits out of 123 credits i.e., 60% credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
7	Fourth year first semester to fourth year second semester	Regular course of study of fourth year first semester.

student (i) shall register for all courses/subjects covering 160 credits as specified and listed in the course structure, (ii) fulfills all the attendance and academic requirements for 160 credits. (iii) earn all 160 credits by securing SGPA ≥ 5.0 (in each semester), and CGPA (at the end of each successive semester) ≥ 5.0 , (iv) **passes all the mandatory courses**, to successfully complete the under graduate programme. The performance of the student in these 160 credits shall be taken into account for the calculation of 'the final CGPA (at the end of under graduate programme)', and shall be indicated in the grade card of IV year II semester.

If a student registers for 'extra subjects' (in the parent department or other departments/branches of Engg.) other than those listed subjects totaling to 160 credits as specified in the course structure of his department, the performances in those 'extra subjects' (although evaluated and graded using the same procedure as that of the required 160 credits) will not be taken into account while calculating the SGPA and CGPA. For such 'extra subjects' registered, percentage of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 – 7.4 above.

A student eligible to appear in the semester end examination for any subject/ course, but absent from it or failed (thereby failing to secure 'C' grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, internal


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marks (CIE) assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.

A student **detained in a semester due to shortage of attendance may be re- admitted in the same semester in the next academic year for fulfillment of academic requirements.** The academic regulations under which a student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which the student has been detained.

A student **detained due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits.** The academic regulations under which the student has been readmitted shall be applicable to him.


Evaluation - Distribution and Weightage of marks

The performance of a student in every subject/course (including practicals and Project Stage – I & II) will be evaluated for 100 marks each, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).

For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the descriptive paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for descriptive paper). The objective paper is set with 20 multiple choice, fill-in the blanks and matching type of questions for a total of 10 marks. The descriptive paper shall contain 4 full questions out of which, the student has to answer 2 questions, each carrying 5 marks. While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus. Five marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two mid-term examinations shall be taken as the final marks secured by each student in Continuous Internal Evaluation. If any student is absent from any subject of a mid-term examination, an on-line test will be conducted for him by the University. The details of the end semester question paper pattern are as follows:

The semester end examinations (SEE) will be conducted for 75 marks consisting of two parts viz. i) **Part- A** for 25 marks. ii) **Part - B** for 50 marks.

- Part-A is a compulsory question consisting of ten sub-questions. The first five sub-questions are from each unit and carry 2 marks each. The next five sub- questions are one from each unit and carry 3 marks each.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an “either” “or” choice, which means that there will be two questions from each unit and the


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student should answer either of the two questions.

For subjects like **Engineering Graphics/Engineering Drawing**, the SEE shall consist of five questions. For each question there will be an “either” “or” choice, which means that there will be two questions from each unit and the student should answer either of the two questions. There shall be no Part – A, and Part – B system.

For subjects like **Machine Drawing Practice/Machine Drawing**, the SEE shall be conducted for 75 marks consisting of two parts viz. (i) Part – A for 30 marks. 3 out of 4 questions must be answered, (ii) Part – B for 45 marks. Part – B is compulsory.

For the Subject **Estimation, Costing and Project Management**, the SEE paper should consist of Part- A, Part-B and Part C. (i) Part – A – 1 out of 2 questions from Unit – I for 30 Marks, (ii) Part – B – 1 out of 2 questions from Unit – II for 15 Marks,


(iii) Part – C – 3 out of 5 questions from Units – III, IV, V for 30 Marks.

For subjects **Structural Engineering – I & II (RCC & STEEL)**, the SEE will be conducted for 75 marks consisting of 2 parts viz. (i) Part – A for 15 marks and, (i) Part – B for 60 marks. Part – A is a compulsory question consisting of ten sub- questions. The first five sub- questions are from each unit relating to design theory and codal provisions and carry 2 marks each. The next five sub-questions are from each unit and carry 1 mark each. Part – B consists of 5 questions (numbered 2 to 6) carrying 12 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there is either or choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

For practical subjects there shall be a continuous internal evaluation during the semester for 25 marks and 75 marks for semester end examination. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the University.

For the subject having design and/or drawing, (such as engineering graphics, engineering drawing, machine drawing, machine drawing practice and estimation), the distribution shall be 25 marks for continuous internal evaluation (15 marks for day-to-day work and 10 marks for internal tests) and 75 marks for semester end examination. There shall be two internal tests in a semester and the average of the two shall be considered for the award of marks for internal tests.

There shall be an Industrial Oriented Mini Project/Summer Internship, in collaboration with an industry of their specialization. Students will register for this immediately after III year II semester examinations and pursue it during summer vacation. Industrial Oriented Mini Project/Summer Internship shall be submitted in a report form and presented before the committee in IV year I semester. It shall be evaluated for 100 external marks. The committee consists of an external examiner, Head of the Department, supervisor of the Industrial Oriented mini project/Summer Internship and a senior faculty member of the department. There shall be


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no internal marks for Industrial Oriented Mini Project/Summer Internship.

There shall be a seminar presentation in IV year I semester. For the seminar, the student shall collect the information on a specialized topic, prepare a technical report, and submit it to the department. It shall be evaluated by the departmental committee consisting of Head of the Department, seminar supervisor and a senior faculty member. The seminar report shall be evaluated for 100 internal marks. There shall be no semester end examination for the seminar.


UG project work shall be carried out in two stages: Project Stage – I during IV Year I Semester, Project Stage – II during IV Year II Semester. Each stage will be evaluated for 100 marks. Student has to submit project work report at the end of each semester. First report includes project work carried out in IV Year I semester and second report includes project work carried out in IV Year I & II Semesters. SEE for both project stages shall be completed before the commencement of SEE Theory examinations.

For Project Stage – I, the departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall evaluate the project work for 75 marks and project supervisor shall evaluate for 25 marks. The student is deemed to have failed, if he (i) does not submit a report on Project Stage - I or does not make a presentation of the same before the evaluation committee as per schedule, or (ii) secures less than 40% marks in the sum total of the CIE and SEE taken together. A student who has failed may reappear once for the above evaluation, when it is scheduled again; if he fails in such 'one reappearance' evaluation also, he has to reappear for the same in the next subsequent semester, as and when it is scheduled.

For Project Stage – II, the external examiner shall evaluate the project work for 75 marks and the project supervisor shall evaluate it for 25 marks. The topics for industrial oriented mini project, seminar and Project Stage – I shall be different from one another. The student is deemed to have failed, if he (i) does not submit a report on Project Stage - II, or does not make a presentation of the same before the external examiner as per schedule, or (ii) secures less than 40% marks in the sum total of the CIE and SEE taken together. For conducting viva-voce of project stage – II, University selects an external examiner from the list of experts in the relevant branch submitted by the Principal of the College. A student who has failed may reappear once for the above evaluation, when it is scheduled again; if student fails in such 'one reappearance' evaluation also, he has to reappear for the same in the next subsequent semester, as and when it is scheduled.

The laboratory marks and the internal marks awarded by the college are subject to scrutiny and scaling by the University wherever necessary. In such cases, the internal and laboratory marks awarded by the college will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled accordingly. The recommendations of the committee are final and binding. The laboratory records and internal test papers shall be preserved in the respective institutions as per the University rules and produced before the committees of the University as and when asked for.

For mandatory courses of Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization lab, a student has to secure 40 marks out of 100 marks


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(i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course. These marks should also be uploaded along with the internal marks of other subjects.

No marks or letter grades shall be allotted for mandatory/non-credit courses. Only Pass/Fail shall be indicated in Grade Card.

Grading procedure

Grades will be awarded to indicate the performance of students in each theory subject, laboratory / practicals, seminar, Industry Oriented Mini Project, and project Stage - I & II. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.

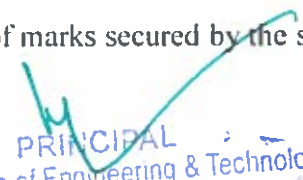
As a measure of the performance of a student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A ⁺ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B ⁺ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	Ab	0

A student who has obtained an 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.

To a student who has not appeared for an examination in any subject, 'Ab' grade will be allocated in that subject, and he is deemed to have 'failed'. A student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered next. In this case also, the internal marks in those subjects will remain the same as those obtained earlier.

A letter grade does not indicate any specific percentage of marks secured by the student.


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but it indicates only the range of percentage of marks.

A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding 'credit points' (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit points (CP) = grade point (GP) x credits For a course

A student passes the subject/ course only when $GP \geq 5$ ('C' grade or above)

The Semester Grade Point Average (SGPA) is calculated by dividing the sum of credit points (CP) secured from all subjects/ courses registered in a semester, by the total number of credits registered during that semester. SGPA is rounded off to two decimal places. SGPA is thus computed as

$$SGPA = \frac{\sum_{i=1}^N C_i G_i}{\sum_{i=1}^N C_i} \dots \text{For each semester}$$

where 'i' is the subject indicator index (takes into account all subjects in a semester), 'N' is the no. of subjects 'registered' for the semester (as specifically required and listed under the course structure of the parent department), C_i is the no. of credits allotted to the i^{th} subject, and G_i represents the grade points (GP) corresponding to the letter grade awarded for that i^{th} subject.

The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in all registered courses in all semesters, and the total number of credits registered in all the semesters. CGPA is rounded off to two decimal places. CGPA is thus computed from the I year II semester onwards at the end of each semester as per the formula

$$CGPA = \frac{\sum_{j=1}^M C_j G_j}{\sum_{j=1}^M C_j} \dots \text{for all S semesters registered}$$

(i.e., up to and inclusive of S semesters, $S \geq 2$),

where 'M' is the total no. of subjects (as specifically required and listed under the course structure of the parent department) the student has 'registered' i.e., from the 1st semester onwards up to and inclusive of the 8th semester. 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the j^{th} subject, and G_j represents the grade points (GP) corresponding to the letter grade awarded for that j^{th} subject. After registration and completion of I year I semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA:

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	8	4 x 8 = 32
Course 2	4	O	10	4 x 10 = 40
Course 3	4	C	5	4 x 5 = 20

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Course 4	3	B	6	3 x 6 = 18
Course 5	3	A+	9	3 x 9 = 27
Course 6	3	C	5	3 x 5 = 15
	21			152

$$\text{SGPA} = 152/21 = 7.24$$


Illustration of calculation of CGPA up to 3rd semester:

Semester	Course/Subject Title	Credits Allotted	Letter Grade Secured	Corresponding Grade Point (GP)	Credit Points (CP)
I	Course 1	3	A	8	24
I	Course 2	3	O	10	30
I	Course 3	3	B	6	18
I	Course 4	4	A	8	32
I	Course 5	3	A+	9	27
I	Course 6	4	C	5	20
II	Course 7	4	B	6	24
II	Course 8	4	A	8	32
II	Course 9	3	C	5	15
II	Course 10	3	O	10	30
II	Course 11	3	B+	7	21
II	Course 12	4	B	6	24
II	Course 13	4	A	8	32
II	Course 14	3	O	10	30
III	Course 15	2	A	8	16
III	Course 16	1	C	5	5
III	Course 17	4	O	10	40
III	Course 18	3	B+	7	21
III	Course 19	4	B	6	24
III	Course 20	4	A	8	32
III	Course 21	3	B+	7	21
	Total Credits	69		Total Credit Points	518

$$\text{CGPA} = 518/69 = 7.51$$

The above illustrated calculation process of CGPA will be followed for each subsequent semester until 8th semester. The CGPA obtained at the end of 8th semester will become the final CGPA secured for entire B.Tech. Programme.

For merit ranking or comparison purposes or any other listing, **only the 'rounded off'**


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values of the CGPAs will be used.

SGPA and CGPA of a semester will be mentioned in the semester Memorandum of Grades if all subjects of that semester are passed in first attempt. Otherwise the SGPA and CGPA shall be mentioned only on the Memorandum of Grades in which sitting he passed his last exam in that semester. However, mandatory courses will not be taken into consideration.

Passing standards

A student shall be declared successful or 'passed' in a semester, if he secures a GP ≥ 5 ('C' grade or above) in every subject/course in that semester (i.e. when the student gets an SGPA ≥ 5.00 at the end of that particular semester); and he shall be declared successful or 'passed' in the entire under graduate programme, only when gets a CGPA ≥ 5.00 for the award of the degree as required.

After the completion of each semester, a grade card or grade sheet shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will show the details of the courses registered (course code, title, no. of credits, grade earned, etc.), credits earned.

Declaration of results

Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9.

For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

$$\% \text{ of Marks} = (\text{final CGPA} - 0.5) \times 10$$

Award of degree

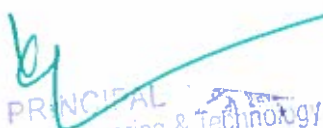
A student who registers for all the specified subjects/ courses as listed in the course structure and secures the required number of 160 credits (with CGPA ≥ 5.0), within 8 academic years from the date of commencement of the first academic year, shall be declared to have 'qualified' for the award of B.Tech. degree in the chosen branch of Engineering selected at the time of admission.

A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.

A student with final CGPA (at the end of the under graduate programme) ≥ 8.00 , and fulfilling the following conditions - shall be placed in '**first class with distinction**'.

However, he

- (i) Should have passed all the subjects/courses in '**first appearance**' within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
- (ii) Should have secured a CGPA ≥ 8.00 , at the end of each of the 8 sequential semesters, starting from I year I semester onwards.
- (iii) Should not have been detained or prevented from writing the semester end examinations in any semester due to shortage of attendance or any other reason. A student not fulfilling any of the above conditions with final CGPA > 8 shall be placed in '**first class**'.


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Students with final CGPA (at the end of the under graduate programme) ≥ 6.50 but < 8.00 shall be placed in 'first class'.

Students with final CGPA (at the end of the under graduate programme) ≥ 5.50 but < 6.50 , shall be placed in 'second class'.

All other students who qualify for the award of the degree (as per item 12.1), with final CGPA (at the end of the under graduate programme) ≥ 5.00 but < 5.50 , shall be placed in 'pass class'.

A student with final CGPA (at the end of the under graduate programme) < 5.00 will not be eligible for the award of the degree.

Students fulfilling the conditions listed under item 12.3 alone will be eligible for award of 'Gold Medal'.

Withholding of results

If the student has not paid the fees to the University at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld, and the student 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.

Student transfers

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

There shall be no transfers from one college/stream to another within the constituent colleges and units of Jawaharlal Nehru Technological University Hyderabad.

The students seeking transfer to colleges affiliated to JNTUH from various other Universities/institutions have to pass the failed subjects which are equivalent to the subjects of JNTUH, and also pass the subjects of JNTUH which the students have not studied at the earlier institution. Further, though the students have passed some of the subjects at the earlier institutions, if the same subjects are prescribed in different semesters of JNTUH, the students have to study those subjects in JNTUH in spite of the fact that those subjects are repeated.

The transferred students from other Universities/institutions to JNTUH affiliated colleges who are on rolls are to be provided one chance to write the CBT (internal marks) in the **equivalent subject(s)** as per the clearance letter issued by the University.

The autonomous affiliated colleges have to provide one chance to write the internal examinations in the **equivalent subject(s)** to the students transferred from other universities/institutions to JNTUH autonomous affiliated colleges who are on rolls, as per the clearance (equivalence) letter issued by the University.

Scope

The academic regulations should be read as a whole, for the purpose of any interpretation.

In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.

The University may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with



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effect from the dates notified by the University authorities.

Where the words “he”, “him”, “his”, occur in the regulations, they include “she”, “her”, “hers”.

B. General:

1. Discipline and Decorum

- Students should have formal attire and are not permitted to wear T-Shirts & Jeans.
- Wearing ID card is mandatory for all the students as long as they are in the college premises. They are not allowed to attend the classes and labs or appear for the examinations without the identity cards.
- Students are not permitted to use mobiles in the college campus. However, students may use department phone in case of emergency. If any student is found carrying the cell phone in the campus, disciplinary action will be taken.
- No student should get absent from the class without prior permission of the HOD. If a student is absent for three days continuously without reason/prior permission, disciplinary action will be taken. The Student must submit leave application in advance to the HOD, if he/she wants to go on leave for a day on some valid reason.
- No musical gadgets shall be allowed in the college campus. If any student is found using such items, the items would be seized and severe disciplinary action will be initiated.

2. Assignments & Lab Records Submission


The students are supposed to submit their Lab records and Assignments given by the faculty concerned and get them corrected and graded in time. Late submission is not accepted.

3. College Timings

The College commences at 09:30 a.m. and ends at 03:30 p.m. with a 50 minutes break for the First year students at 12:10 pm. and for senior students at 1:15 p.m. Students should reach the college in time and must be present in the class by 09:20 a.m. Students are not permitted to loiter out when the class work is in progress.

3. Communication/Notice Boards

All Communication to parents and students will be done through WhatsApp Parent group and Student group. Students are also informed to see the College notice boards, department notice boards and Lab notice boards regularly.


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Undertaking from Students and Parents:

Students and their parents / guardians should execute an undertaking in the prescribed format that they shall abide by all the rules and regulations of the college. Even before executing an undertaking, a student who has taken admission in this Institute shall be deemed to have agreed to the rules and regulations of the Institute as given in this handbook and also that may be framed from time to time.

Letters to Parents:

Parents will be communicated about performance of their son / daughter / ward in attendance and examinations through letters from time to time. Parents are requested to contact HOD/ Class Mentor as and when required and to keep in touch with the Class Mentor/HOD and monitor the academic progress of their ward. In case of poor academic performance, attendance and the behavior of the student the parent/guardian should promptly respond to and comply with the reports and suggestions for improvement as and when informed.

5. Intimation of Change of Address

Students are asked to intimate the change in Address / Phone number immediately, if any, to the academic branch through their Class Mentor or HOD.


6. Gate Pass

Students found bunking classes or leaving the college without prior permission will not be permitted to attend the classes the next day, till proper explanation is given by the student or the parent / guardian to the Head of the Department concerned.

7. Discipline in Buses

The students must commute in the allocated buses. In case of emergency they will be permitted to change route, with the permission of the authority concerned /bus in- charge. If the behavior of any student is objectionable to the staff/other students, disciplinary action will be taken. No student is permitted to travel without bus pass. One Senior Faculty Member will be nominated as Bus In-charge.

8. Punctuality


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Students should be punctual to their classes. In case of coming late to the class, the student may be permitted to attend the class with the permission of their respective Department Head. If the student is a regular late comer, appropriate disciplinary action will be taken.

9. Interaction with seniors

To curb the practice of ragging on the pretext of interaction, the junior students are instructed not to meet the seniors and engage in any sort of conversation. The students are instructed not to spend their time with the seniors even if they are known or related to them.

10. Leave / Sick Leave

If the absence is on medical grounds students should intimate their concerned HOD, for being absent and submit the medical certificate on the next day. Disciplinary action will be initiated if any student is absent without any intimation to the Class teacher/ HOD for more than three days.

11. Bonafide Certificates

The Academic branch will issue bonafide certificates for bus passes and other purposes to the college students.

12. Bus Passes


Administrative officer will attest TSRTC bus pass applications. College bus Id-cards will be issued by the transport in-charge.

13. Original Certificates

The Original certificates of each student should be deposited with the college and the same will be returned after the completion of the course.

12. Memorandum of Marks

The memorandum of marks of a particular semester will be issued by the Examination branch.



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C. RAGGING FREE CAMPUS

Ragging is strictly banned / prohibited on campus. Any student found guilty would be dealt with severe punishments. All senior students of the college are aware of anti-ragging and are warned about ragging and the institution received a written undertaking. Separate buses are provided for first year students. Students who misbehave with staff or other students are dealt seriously. Students involving in indecent acts like smoking, consuming liquor and involving in fights may be suspended up to one semester /academic year.

- Students should not involve in ragging. Ragging is uncivilized besides being an offence.
- Ragging is prohibited as per Act 26 of A.P. Legislative Assembly -1997.
- Ragging entails heavy fine and /or imprisonment.
- Ragging invokes suspension and dismissal from the college.
- Outsiders are prohibited from entering the college and hostel without permission.
- Girl students must be in their hostel rooms by 6:00 p.m.
- Suspended students are debarred from entering the campus except when required to attend enquiry and to submit an explanation.
- Whenever any student complains of ragging, that complaint shall be enquired into or an enquiry will be made into the same forthwith and if the complaint is found true, the student or students who are found to be involved shall be suspended for a period as may be deemed necessary.
- Students have to give an undertaking to the college that he/she will not indulge in ragging. Student's parent/guardian will also give an undertaking that he / she will see to it that to the best of his / her son / daughter will not indulge in ragging and also comply with all the guidelines, rules and regulations concerning prevention of ragging.
- All students should carry identity cards with them both inside and outside the college.
- Two tiered Anti Ragging Committee has been constituted with a) HODs as members and Principal as Chairman (High Power Committee) and b) Faculty, Staff and senior students as members.
- Ragging within or outside any Educational Institution is prohibited.
- Ragging means doing an act which causes or is likely to cause insult or annoyance or fear or apprehension or threat or intimidation or outrage of modesty or injury to a student

S. No.	Nature of Ragging	Punishment
1	Teasing, embarrassing and humiliating	Imprisonment up to 6 months or fine upto Rs.1,000/-
2	Assaulting or using criminal force or criminal intimidation	Imprisonment up to 1 Year or fine up to Rs.2000/- or both.


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3	Wrongly restraining or confining or causing hurt	Imprisonment up to 2 years or fine up to Rs.5000/- or both.
4	Causing grievous hurt kidnapping or raping or committing unnatural offence	Imprisonment up to 5 years and fine up to Rs.10,000/-
5	Causing death or abetting suicide	Imprisonment up to 10 years and fine up to Rs.50,000/-

Note:

- A student convicted of any of the above offences will be dismissed from the college.
- A student imprisoned for more than six months for any of the above offences will not be admitted in any college.
- If a student commits suicide due to or in consequence of ragging, the person who commits such ragging shall be deemed to have abetted such suicide.
- The full text of Act 26 is placed in the college library.

E. LABORATORIES: DO'S AND DON'TS

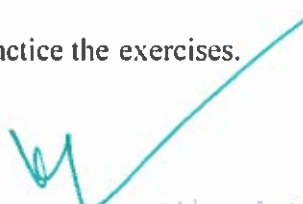
Computer Programming Lab:

- Lab can be used in free time / lunch hours by taking prior permission from the lab in-charge.
- Lab records need to be submitted on or before the date of submission.
- Students are not supposed to use pen drives/data cards.
- Use of computer network is encouraged.

English Language Communication Skills Lab:

- Advanced equipment is arranged in the lab for the use of student community. Students need to maintain a proper decorum in the lab. Students must use the computer & head phones with care. Any damage caused is punishable.
- Students must carry their observation books with completed exercises (activities) while entering the lab.
- Students are supposed to occupy the machines allotted to them and the allocation is displayed on the lab notice board.
- Students must be active in responding to the questions and to practice the exercises.

Engineering Physics Lab/Applied Physics Lab:


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- Teachers expect students to be calm and disciplined. Your behavior and attitude in lab should be excellent. The safety of you and other persons depend on it.
- Lab experiments take a lot of time in doing them, so teachers expect you to arrive on time and to use your time well.
- Listen to the instructions given by your teacher and follow them carefully.
- Read your lab assignments before coming to class. Prepare your pre-lab write-up prior to entering the lab.
- Take signature in your observation note book from your teacher before leaving the lab.
- Perform only those experiments on which you have been instructed. Do not touch equipment until you are instructed to use it.
- It is your responsibility to take care of lab equipment, use it only as instructed, and report any damages to your teacher or technician.
- Keep Clean and neat the lab work area at the end of lab period. Return all equipment and materials to the concerned.
- Use ball point pens, not pencils for noting the observations.
- Never attempt to touch the equipment or to do the experiment on your own until your teacher demonstrates about it.
- Never remove any pages from the observation notebook and record.
- Never use electrical equipment around water.
- Don't work in the lab alone.
- Don't leave the bags and books in the aisles.
- Don't move the laser while it is switched on.
- Don't touch the surface of the grating with your fingers.

Engineering Chemistry Lab:

- Acids should be placed and labeled separately
- Fire extinguisher is available in case of any accident in the lab
- Gas cylinder should be placed outside the lab
- Students can operate all the equipments on their own. once it is demonstrated.
- Glassware used in the laboratory are of borosilicate of good quality.
- For the preparation of solutions distilled water is used to get accurate values.
- To avoid the breakage of the glassware, we have plastic ware.

Engineering Graphics:

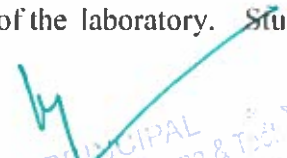
- All the students must bring their own drawing instruments including drawing sheets to every class without fail. Borrowing from others is not allowed.


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- The students must bring the Drawing records every week to the class, as the submission is on weekly basis.
- The number of problems in assignment sheet should be designed in such a way that student should complete all the problems and submit on the same day.
- All the students must keep a piece of paper while fixing the drafter to the drawing board.
- The students are required to bring the observation books to the Drawing hall.
- The students must sit in the drawing hall according to the roll numbers.
- In case of any problem while drawing, students are supposed to raise the hands, so that faculty will come and clarify the doubts instead of moving around the Drawing Hall.

Lab Code and Conduct:

- Students are expected to be punctual and regular to the lab classes and follow the lab dress code.
- Students are expected to do all the experiments prescribed by the University.
- They will not be permitted to attend the end practical examinations unless they carry out the minimum number of experiments prescribed by the University.
- They should attend the lab fully prepared, with clear concept of the theory underlying the experiment and other experimental details with a pre-plan on how to carry out the experiment, after consulting the lab manual.
- Observation notebooks should be neatly maintained.
- Experiments must be recorded only in the books approved by the departments / college.
- Observation notebook should be compulsorily shown to the faculty in charge of the lab and get it signed by the teacher at the end of the experiment.
- Records must be submitted as per the schedule prescribed by the faculty in charge of the lab.
- Records must be certified before appearing for the end examinations.
- Student should not move from one table to another.
- Student should handover the equipment to the technician in good condition before leaving the lab.
- Students should maintain utmost cleanliness in the lab.
- Breakages / damages of equipment should be reported immediately to the lab in- charge.
- Students are advised to clear all dues to the lab before taking end practical examinations to avoid complications at a later date.
- Laboratory session marks will be awarded on the basis of continuous evaluation.
- They should clear the work bench soon after the experiment is over.
- Waste material, if any, should not be strewn on the floor of the laboratory. Students should use the waste material baskets kept for the purpose.


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- Experiments should be carried out following all the instructions meticulously and observing all the precautions to avoid personal injuries and damage to equipment.

TRAINING & PLACEMENT


The Training and Placement at AVNIET has following roles and responsibilities:

- Nurtures Industry Institute interaction, by organizing and coordinating frequent industrial visits, implant training and projects of industrial relevance for the students, with the sole aim of zeroing down the hiatus between the industry and the academia.
- Analyses the gap areas which need improvement and follow continuous re-engineering process.
- Helps every student define his/her career interest through individual expert counseling.
- Makes available updated database and job profile of the companies and thus helps each student analyze and choose company of his interest.
- Organizes and coordinates Campus Placement Program, to fulfill its commitment of a job to every aspirant.

Employability Enhancement Model:

The students of AVNIET undergo set of trainings which make them industry ready and help them get selected in top notch brands and once selected helps them stay afloat. These trainings have helped the students reap the best results ever.

1	Mr. K. Srinivas	Training & Placement Officer
2	Mr. B. Ramesh	Placement Co-ordinator


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 Ichannipatnam (M) R.R. Dist., T.S.



avniet.ac.in

AVN Institute of Engineering & Technology

Campus: Koheda Road, M.P.Patelguda Post, Ibrahimpatnam (M),
Ranga Reddy Dist – 501 510
T S. India.
Ph: +91-9248011442/6/8

CODE OF CONDUCT FOR STAFF

Every employee of AVNIET shall devote his/ her whole time to the service of the college and shall not engage directly or indirectly in any trade or business / activity in any other institution which is likely to interfere in the proper discharge of his / her duties. This provision shall not apply to academic work like giving guest lecturers, talks or any other work undertaken with the prior permission of the Principal.

Every employee shall at all times maintain absolute integrity and be committed to the development of the college and do nothing that can go against the dignity and prestige of the college particularly in his /her relationship with the Management Principal, Staff, students and visitors to the college.

No employee, without the previous sanction of the Principal / Management, solicit or accept in any way to raise subscriptions in pursuance of any objective what so ever except for routine farewell or felicitation functions connected with the college.

No faculty shall engage himself or herself in undertaking coaching or private tuition for students for remuneration.

No employee shall except with the previous sanction of the Principal own, wholly or in part, conduct or participate in editing / managing any news paper or periodical, or any other publication.

No employee, while on duty, participate in politics or stand for elections either as an independent or on any party.

No employee shall invite or participate in strikes or incitement there to pertaining to this service or other conditions which tends to bring disrepute to the college.


No employee shall take recourse to any organization / forum / courts or the press in order to vindicate or air grievances. The Governing Body by the authority vested in it, shall exercise the power, after giving the employee concerned an opportunity to explain his / her case

No employee may absent himself / herself from duty without prior permission. In case of proceeding on leave an emergency without prior permission, he/ she must explain the circumstances before rejoining duty

Every employee shall be at work punctually at timings fixed unless permitted otherwise by his / her superior. After reporting for duty, no employee shall be absent during the period of work assigned to him / her.

The following shall be considered as misconduct:

- (a) Failure to exercise efficient supervision.
- (b) Insubordination or disobedience shown to his / her superior officer.
- (c) Gross negligence in teaching or other duties.


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(d) No outsider should be allowed into the college premises so as to endanger college property.

(e) Any act which is immoral and can be punished under the IPC. (v (f) Intemperate habits affecting the efficiency of teaching.

(g) Failure on the part of an employee in suppressing factual information of his / her previous history.

DISCIPLINARY PROCEEDINGS

No employee shall be subjected to any punishment unless,

(a) The member is informed in writing by the Principal in regard to the allegations on which disciplinary action proposed , and is given an opportunity to make a presentation in person or in writing.

(b) Such representations would be taken into consideration by the competent authority before a penalty is imposed.

PUNISHMENTS AND APPEALS

(a) All employees of AVNIET may for sufficient reasons be imposed the following penalties

(i) Censure

(i) Fine

(iii) Withholding of increments / promotion

(iv) Reduction to a lower post or a lower stage in the time scale.

(v) Recovery from pay (whole or partial) pecuniary loss caused to the college by negligence

(vi) Suspension / Compulsory retirement.

(vi) Removal / Dismissal from service.

(b) The enquiry shall be conducted by a duly constituted Board of Enquiry and no action shall be contemplated or taken unless the employee is given a reasonable opportunity to be heard. The Board of Enquiry shall be constituted by the Principal.

ARRIVAL AND CLEARANCE FORMALITIES

All staff arriving after the recruitment and leaving AVNIET after resignation/retirement should follow the arriv and clearance formalities which are listed at Appendix III and IV respectively to Part II.

JOB RESPONSIBILITIES


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As per AICTE Pay Commission (1997) recommendations, the job responsibilities of faculty are divided amongst the following four areas

- a) Academic
- b) Research and Consultancy
- c) Administration
- d) Extension Services

They are broadly identified as follows:

Academic

- (a) Class Room Lectures
- (b) Laboratory Guidance / Instruction.
- (c) Curriculum Development
- (d) Development of Learning Resource Material (e) Development of Laboratories, Manuals, etc.
- (f) Student Evaluation and Assessment including examination work of University.
- (g) Participation in Co-curricular and Extracurricular work.
- (h) Students Counselling
- i) Continuing Education, Summer schools / Winter schools, Symposia conducting and participation
- (j) Books , Publications, Seminars.
- (k) Self upgradation by acquiring higher qualifications, keeping abreast of developments in his / her own field.

Administration

Academic and administrative management of the Department, Policy planning, monitoring, evaluation and promotion activity at both departmental and institutional level

(a) Design and development of newer programmes and disciplines Participation in National / State level policy planning bodies, Organisation of Institute level / State / National level faculty/ Student Societies

(b) Planning / Development of Schedules for classes both at departmental / Institution levels. Help mobilize resources for the Institution, Maintain and Cross check accountability, conduct performance appraisals

Extension Services

(a) Interaction with Industries/Service Institution, Promote Community Service amongst students.

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(b) Help, Develop, Vocational services in the neighborhood, contribute towards promoting / providing non-formal education, Promote entrepreneurship and job creation

WORKING HOURS

The normal working hours of the college is 7 hours which includes lunch break with staggered timings i.e.9:30 AM to 3:30 PM.

The college works on all Saturdays except second Saturday in a calendar month.

UNIVERSITY STIPULATION ON TEACHING DAYS

JNT University stipulates that the college working / teaching days should be 90 days / semester or 180 full teaching days per year. These do not include examinations / tours / sports or other days of extra / co-curricular work but imply actual class room lecture / laboratory contact days.

APPRAISAL

Performance Appraisal

Annual staff performance appraisal system consists of appraisal by:

- a)Students through feedback form
- b)Head of the Dept.
- c)Principal
- d)Management

TRANSPARENCY

The Principal / Dean / HOD will discuss the results of the appraisal with every employee. Continuous and sustained performance will be a necessary requirement for internal promotions, for selection as HOD's or Sectional Chairman of various committees, selection for incentives, deputation, eligibility for study leave and other financial benefits, award etc., appraisal reports will be in their respective files. The format for feedback by students is given as appendix V and the for the for the appraisal form of Teaching Staff as Appendix VI.

LEAVE RULES

Leave rules shall apply to faculty and staff and shall be called the "Leave Rules of AVN Institute of Engineering and Technology.

Casual Leave (C.L.)

(a) All employees of AVNIET are entitled for 12 days of C.L., in a calendar year on a pro rata basis of one C.L., in a month. In case an employee has accumulated C.L., in a calendar year, he/ she can avail only 3 days C.L., at a stretch.

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- (b) All Saturday working days except second Saturday.
- (c) Vacation and on-duty leave cannot be combined with C.L.
- (d) C.L., unavailed in any calendar year cannot be carried over to the next calendar year. Half a day's C.L. is permitted.
- (e) C.L. can be availed only on prior sanction. In case of emergencies, the employee can be absent from duty and the leave reported on resuming duty after the C.L. is availed. This is permitted only in an emergency.
- (f) It is the responsibility of the faculty to make alternative arrangements for the classes or other works missed because of the casual leave, HOD would also monitor and ensure that no class is left unattended.
- (g) HOD / Principal's office shall maintain the C.L. register and permission granted for the staff under his / her control.
- (h) An employee taking leave without prior permission or without any information for two days continuously will be deemed to be absent and the same treated as "Leave without pay".

Permission

A permission of one hour duration can be availed by an employee twice in a month.

Vacation Leave

Faculty are eligible for a vacation as per JNTUH norms. The vacation leave shall be availed in two spells. Intervening non-working Saturdays, Sundays and governmental public holidays shall be added to the vacation leave.


On Duty

(a) Faculty deputed by the institute to attend Conferences / Seminars / Meetings and other College or Institute work shall be deemed to be as "On Duty" or on terms specified by the Management from time to time. Any faculty shall be allowed to attend 'More than' Conference / Seminar / Meeting during the academic year for which the Management shall bear the expenses of registration or conference fees, traveling and daily allowances / accommodation and boarding charges. These periods shall be deemed to be "on duty" and shall not exceed 3 (three) days in a year, will be allowed 15 days to attend the program and considered as on duty or O.D.

(b) A cash incentive up to Rs 5000/- may be awarded to those who publish articles/ papers in a reputed National/International journals.

(c) Faculty could undertake JNT University Examination work/ Centra Valuation / Laboratory External Examinations/ or other University connected work which is remunerated, not exceeding 6 days in each semester, but cannot be carried over for subsequent semester. Faculty on such duty are expected to produce proof of attendance to the HOD concerned immediately on return. HOD should forward it to the Management office with Principal's remarks

(d) Any faculty who has completed two (2) calendar years of service at AVNIET, can be sponsored for higher studies after furnishing a bond to hold a lien on his job. During the period of his sponsorship he will not be paid any salary / allowances, if the person sponsored needs to be away from the college for more than 10 hours per week, or one day a week.


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(e) At any given time, the total number from a department who could be way on Seminars/ Workshops is decided considering the workload of the department.

(f) Budgetary provisions should be made in the beginning of the year for these faculty development activities.

(g) Any faculty proceeding on leave for a long period, unless sponsored by the Management, has to terminate his assignment with the Institute.

MATERNITY LEAVE

Permanent employee of the Institute proceeding on maternity grounds is entitled to avail maternity leave of 03 months.

CAREER ADVANCEMENT / PROMOTION RULES

(a) Minimum length of service for a Lecturer to move into the grade of Lecturer (Senior Scale) would be 4 years for those possessing a Ph.D degree, 6 years for those with M. Phil / M.E. / M.Tech. degree and 7 years for those with B.E. B.Tech. degrees

(b) Minimum length of service for a Lecturer (senior scale) to move into the grade of Assistant professor shall be 5 years

(c) Since 1998, for movement into grades of Asst. Professor and above the minimum eligibility criteria is a Ph.D Teacher without Ph.D. can go up to the level of Sr. Lecturer only

(d) For every upward progression of faculty a selection process as per the norms / rules and regulations laid down by the AICTE / JNT University to which the college is affiliated, is followed.

(e) Period spent on higher studies is also reckoned for purposes of awarding a higher scale.

(f) Every faculty acquiring an additional higher relevant degree while in service, (through examinations and course work) is entitled to one advance increment on producing the provisional degree certificate, pertaining to the higher qualification

(g) Sponsorship for higher studies is based on seniority, preference being given to doctoral programmes, and secondly to Master's degree programmes, on executing a bond as desired by the Management. The said facility is limited to one faculty member per year from one department, without affecting the course work / projects of students.

(h) Any faculty seriously interested in promoting or advancing the cause of research and who exhibits interest will be suitably encouraged by the Institute and shall receive special commendations.

STAFF DEVELOPMENT AND TRAINING

Supporting Staff (Administration and Technical)

(a) Arranging in-house training programmes, with the help of resource person from the English and Management departments (with inputs of English grammar basics)

(b) Arranging professionals from the industry and Government to deliver training programmes in Administration and Accounts (for all those in administration and accounts) on all aspects of management and technical skills needed for running an office in a self-financing educational Institution.

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(c) To impart computer knowledge to all ministerial and subordinate staff with the help of faculty from the Computer Department, training such staff in a working knowledge of English is also needed, and this is done with the faculty from the English department. Laboratory technicians are likewise given special exposure to newer equipment and processes by Heads of Departments.

AWARDS

"Excellence in Teaching" awards and the "Best Supporting Staff" awards have been instituted by the Management to recognize deserving staff and the awards are presented every year on Annual Days.


Faculty who show and exhibit dedication and commitment are also recognized by deputing them for special conferences and seminars and are also issued recommendation letters

GRIEVANCE REDRESSAL CELL

Any employee having any kind of grievance can address his / her problem to the Grievance Redressal Cell in writing. Grievance Redressal Cell shall consist of Chairman Principal and Dean of Academics as Members. Genuine grievances of the staff and students are considered and remedial measures instituted

WOMEN'S DEVELOPMENT CELL

The activity addresses problems of women employees and empowerment of women.


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HANDBOOK ON HUMAN VALUES AND PROFESSIONAL ETHICS (AVNIET)

A code of conduct is a set of rules outlining the norms, responsibilities and practices for an individual and committees for the smooth conduct in the organizations. It is expected that staff members strictly adhere to the rules and regulations of JNTUH, Hyderabad, Telangana and competent authorities. The Local Management Committee reserves the right to change/modify the rules and regulations as and when necessary and apply their discretion in specific cases. The rules and regulations included in this handbook are applicable for students, Principal, teaching staff, official staff, supporting staff and Governing committees. As we are associated with the education faculty, our code of conduct has pivotal importance in development of students.

ABOUT INSTITUTION:

AVNIET, a premier institution offering engineering education in the streams of CSE,ECE,EEE,CIVIL and Mechanical. AVNIET comes from the stable of Dilsukhnagar Public School having 34 years of academic excellence, under the leadership of chairman Mr.AVN Reddy. Established in 2009, affiliated to Jawaharlal Nehru Technological University (JNTU), Hyderabad, and is approved by the All India Council for Technical Education (AICTE), New Delhi. AVNIET is destined to offer comprehensive curriculum in the field of Technological education. Our students have a perfect place to learn and excel by striking a balance between academics and contemporary engineering practices.

VISION:

To be a Centre of Excellence in Technical Education and to become an Epic centre of Research for Creative solutions

MISSION:

To address the Emerging needs through Quality Technical Education with an Emphasis on Practical Skills and Advanced Research with Social Relevance.


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CORE VALUES :

- Committed Faculty
- Societal Trust
- Pleasant Environment
- Teamwork
- Non violence
- Peace
- Lifelong Learning
- Industrial Approach
- Adaptive Research


OBJECTIVE:

- Faculty development for qualification improvement through publication, research and innovation.
- Student development through various social activities and life skills with social responsibilities.
- Excellence in teaching through state of art facilities.
- Integrity through honest, fair and transparency processes.
- Diversity among the faculty and students through respect and freedom without discrimination.
- To bring an awareness on human values and professional ethics.

Human values and professional values have been employed in so distinctively different ways in human discourse. It is often said that a person has a value or an object has a value. At AVNIET, we cultivate and inculcate these values in the student and staff through teaching and conducting the activities. The human values are listed below.

The human values and professional ethics are:

1. Right conduct
2. Peace
3. Truth
4. Love
5. Nonviolence
6. Discipline
7. Integrity
8. Identifying one's role in larger picture
9. Valuing Time
10. Loyalty
11. Commitment


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INTEGRITY


Integrity is defined as the unity of thought, word and deed (honesty) and open mindedness. It includes the capacity to communicate the factual information so that others can make well-informed decisions. It yields the person's peace of mind, and hence adds strength and consistency in character, decisions, and actions. This paves way to one's success. It is one of the self-direction virtues. It enthuse people not only to execute a job well but to achieve excellence in performance. It helps them to own the responsibility and earn self-respect and recognition by doing the job. Moral integrity is defined as a virtue, which reflects a consistency of one's attitudes, emotions, and conduct in relation to justified moral values. Integrity comes in many forms, but honesty and dependability are two traits that are expected in most workplace situations. Without responsible behavior, distrust can make a work environment tense and uncomfortable. A strong work ethic shows co-workers and clients that you're reliable and take your responsibilities seriously. Polite communication, respectable behavior and fiscal responsibility also help you stand out as a trustworthy employee.

Follow Institution Policies

Abiding by institution policies is a powerful way to demonstrate integrity. Cutting corners and neglecting to follow workplace regulations can lead to mistakes, problems and even dangerous situations. Your willingness to properly record financial transactions, safely dispense of hazardous or toxic materials, follow Institute protocol for dealing with stake holders, perform clean-up or set-up procedures and properly maintain equipment shows others that you're not just looking for the easy way out. Establishing yourself as a trustworthy worker who submits to Institute policies shows your principal and co-employees and students that you'll faithfully carry out your duties.

Service Learning

Service-learning seeks to engage individuals in activities that combine both community service and academic learning. Because service-learning programs are typically rooted in formal course, the service activities are usually based on particular curricular concepts that are being taught. Servicelearning is a teaching method which combines community service with academic instruction as it focuses on critical, reflective thinking and civic responsibility. Service-learning programs involve students in organized community service that addresses local needs, while developing their academic skills, sense of civic responsibility, and commitment to the community


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SERVICE-LEARNING BENEFITS

- Service-Learning benefits students by Linking theory to practice
- Deepening understanding of course materials
- Enhancing the sense of civic responsibility through civic engagement
- Allowing students to explore possible career paths
- Stressing the importance of improving the human condition
- Developing relevant career-related skills
- Providing experience in group work and interpersonal communication
- Promoting interaction with people from diverse backgrounds
- Instilling a sense of empowerment that enhances self-esteem
- Service-Learning benefits faculty by Providing exciting new ways to teach familiar material Offering professional development challenges
- Engaging faculty in meaningful interactions with the community at large
- Encouraging faculty to form close, interactive, mentoring relationships with students
- Reminding faculty of the direct consequences of their teaching for society
- Connecting faculty across academic disciplines through a shared approach to teaching and learning process



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PROFESSIONAL ETHICS

INTRODUCTION

Management have an ethical and social responsibility to themselves, their clients and society. Practically (although there is much debate about this), engineering ethics is about balancing cost, schedule, and risk. Management ethics is a means to increase the ability of concerned engineers, managers, citizens and others to responsibly confront moral issues raised by technological activities. The awareness of moral issues and decisions confronting individuals and organizations are involved in Management & Technology.

MANAGEMENT ETHICS

WHY STUDY MANAGEMENT ETHICS?

Training In Preventive Ethics

- Stimulating the moral imagination
- Recognizing ethical issues
- Developing analytical skills
- Eliciting a sense of responsibility
- Tolerating disagreement and ambiguity

Obstruction to Responsibility

- Self-interest.
- Fear.
- Self-deception.
- Ignorance.
- Egocentric tendencies.
- Microscopic vision.
- Groupthink


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Clearly Wrong Engineering Practices

- Lying
- Withholding information
- Failing to adequately promote the dissemination of information
- Failure to seek out the truth
- Revealing confidential or proprietary information
- Allowing one's judgment to be corrupted.

Senses of Expression of Management Ethics

- Ethics is an activity and area of inquiry. It is the activity of understanding moral values, resolving moral issues and the area of study resulting from that activity.
- When we speak of ethical problems, issues and controversies, we mean to distinguish them from non-moral problems.
- Ethics is used to refer to the particular set of beliefs, attitudes and habits that a person or group displays concerning moralities.
- Ethics and its grammatical variants can be used as synonyms for morally correct.


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