GURU NANAK INSTITUTE OF TECHNOLOGY

City Office: B2, 2nd Flr, Above Bata, Vikrampuri Colony, Karkhana Road, Secunderabad-50009, Telangana, India.
Ph: +91-40-6632 3294, 6517 6117, Fax: +91-40-2789 2633
www.gnithyd.ac.in **Campus:** Ibrahimpatnam, R.R. District, Hyderabad-501506, Telangana, India. Ph: (0/95) 8414-20 21 20/21

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.

2.0 Eligibility for admission

2.1 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.

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. 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 ≥ 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 program, 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).registration in that semester, and the second focus, if needed, will be on CGPA of the student).

5.3 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**.

5.4 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 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.

9.3 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.

9.4 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.

9.5 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

9.6 A student passes the subject/ course only when **GP ≥ 5 ('C' grade orabove)**

9.7 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

$$\textbf{SGPA} = \{\sum_{i=1}^{N} C_i G_i\}/\{\sum_{i=1}^{N} C_i\} \quad \textbf{…. For each semester}$$

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.

9.8 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

$$\textbf{CGPA} = \{\sum_{j=1}^{M} C_j G_j\}/\{\sum_{j=1}^{M} C_j\} \quad \textbf{… for all S semesters registered}$$

(i.e., up to and inclusive of S semesters, S ≥ 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 1^{st} semester onwards up to and inclusive of the 8^{th} 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

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**

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.

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

values of the CGPAs will be used.

9.10 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

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

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

% of Marks = (final CGPA – 0.5) x 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”.

B. General:

1. Discipline and Decorum

- Students should have formal attire and are not permitted to wear T-Shirts & Jeans. Students must follow the department dress code on Monday, Tuesday and Wednesday.
- 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 09:20 a.m. and ends at 04:00 p.m. with a 45 minutes break for the First year students at 11:55 a.m. and for senior students at 12.40 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.

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

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.

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.

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:

- 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.

- 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.

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

I. Hostel:

Rules of Admission

- Students who join the hostel should pay the prescribed admission fee and caution deposit at the time of admission.
- Admission shall be made only after clearing all the dues to the college and previous dues (if any) to the hostel.
- Separate Identity Card will be issued to every hosteller.
- Suspension/dismissal of a hosteller from the college will automatically result in his/her suspension/ dismissal from the hostel.

Rules of Discipline

- Every inmate should return to the hostel by 5 p.m.
- Inmates can avail the college library facility after 6 p.m. from Monday to Saturday by taking prior permission from the warden.
- Inmates are not allowed to leave the hostel. However, in exceptional circumstances they may take permission from the warden if they need to go outside. Leaving the hostel without the written permission of the warden shall be considered to be a violation of hostel rules and will be dealt with a firm hand.
- All inmates must carry their college identity cards whenever they leave the hostel premises. They will be permitted to enter the hostel only on production of the identity card at hostel main gate.
- Parents/guardians of inmates will be allowed to visit their son / daughter between 5 and 6 P.M. on all college working days and between 1 P.M. and 6 P.M on Sundays and other college holidays. Visitors will be allowed to meet the inmates after making required entries in the visitors register.
- No inmate will be permitted to go out with parents or local guardians without prior and proper authorization from the warden. Any request for permission from parents to take their son / daughter / ward out during college working hours will not be entertained.
- No inmate will be permitted to go home during vacation except with the permission from Associate Director.
- Hostellers' parents and first degree blood relatives who need to stay with them overnight should first take the consent of their roommates and then the written permission of the warden.

- Hostellers are not allowed to stay in the hostel rooms during the college timings.
- Collective gatherings of any kind are prohibited within the hostel premises.
- Hostlers should not indulge in any act or activity that is unacceptable and detrimental to the smooth and proper running of the hostel.
- The hostel premises and buildings should be kept clean.
- Hostellers shall be held responsible for any damage caused to hostel property and the loss to the property shall be recovered from them.
- Hostellers are prohibited from using any electronic or power consuming appliances without permission from the warden.

TRAINING & PLACEMENT

The Training and Placement at GNI 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 Guru Nanak Institute of Technology 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. Vinay Chopra**	**Head, Training & Placement**
2	**Mr. D. Srikanth**	**Placement Officer**
3	**Mr. A. Vinay Sagar**	**Placement Coordinator**

Testimonials of Few Students

Every student's dream is to get an opportunity to start their career with well-known MNC, and I got placed in TCS and Optum which are Global information Technology Companies. Thanks to the Training & Placement department for providing this opportunity. I am looking forward for an excellent career.Ms Karishma Das - TCS & Optum

GNI hosted first time Value Labs drive. I am glad to be a part of the training. I believe that there exist determination and moral support to achieve an initial step of something best in life. The former part is within us and for the latter, there are the people who provide us with utmost help for which, I would like to thank the Training & Placement Department and my college staff. Mr. UPPALAPU JYOTHI PRASAD-Value Labs

Our College has provided us enhanced and efficient trainings which enabled me to bag my dream job with Infosys. I am very thankful to GNI management for providing us the best of placement opportunities.
Ms. Ogirala Alankritha -Infosys

I have been placed in Open Text which is a very good company. I am really grateful to the management who has trained us on various technologies such as Python, Java, .Net etc. I owe my success to GNI.
Mr. Jagadeesh - Open Text Technologies

STUDENT ACTIVITIES

Freshers' Day

The college organizes freshers'day where the II year students welcome freshers'. The Principal and the Head of Departments will grace the occasion. Second Year students will organize cultural events and conduct competitions for freshers.

Annual Day

Annual Day is celebrated in a grand manner. Chief Guest is invited from Industry, R & D

Institutions or reputable Universities. Principal/Director presents the annual report of the college for the academic year.

Felicitations

Academic prize distribution for department wise toppers in JNTUH exams and to the students who have secured 1st and 2nd positions in JNTUH Examinations and Prizes for the winners in different activities like sports and games, cultural activities are taken up.

Technical Fest

Apart from paper presentations the college will conduct other events such as Auto- Expo, Model Presentation, Photo Shot, Treasure Hunt, and Riddle Solving and so on.

Sports Events

Events on outdoor games like Cricket, Foot ball, Volley ball for boys & Throw ball, Tennikoit for girls are held. Indoor events like Chess, Table Tennis, and Caroms at College level may be held once in every month and also for Annual Day.

Dr H S Saini, M.D., GNI addressing on A National Level Sports meet held at GNI from 24th to 28th January, 2019

Cultural Events

Competitions like Painting, T-Shirt Painting, Quiz, Rangoli and Mehendi are conducted.

Literary Events

Competitions like Essay writing, Elocution, Debate, Group discussion, Quiz, Dumb Charades are conducted. The literary club "VIVLIOGRAFIA "is very active.

Extra-Curricular Events

Guru Nanak Institutions, Ibrahimpatnam organized a one day International Event TEDx on Technology, Entertainment and Design on 2nd February 2019 in the indoor AC auditorium in GNIT. This program was sponsored by **CtrlS, Gifteria**, and hosted by Guru Nanak Institutions. More than 100 students, engineers and academicians participated in this event

from various colleges of Telangana, Andhra Pradesh, Karnataka, Tamil Nadu, Maharashtra and other states. **TEDxGNI @Guru Nanak Institutions** Picture Gallery of TEDx Event –2K19 at GNI **Workshops & Student Paper Presentation Contests and Student Achievements**The College has also been very active in organizing Workshops, Student Paper Contests like Techno Fest, and Project exhibitions like Innovations.

STUDENT ACHIEVEMENTS @ GNIT

- Malla Reddy Engineering College for Women conducted State Level Tournament on 9th February, 2019. GNI Girls Kabaddi Team Secured First Place, out of which 16 Teams Participated in the Tournament.
- GNIT 3rd Year CSE-C Section student participated in Table Tennis at GITAM University and won the Championship

- Akanksha, II year CSE, student received award at University Level Youth Festival-2019
- JNTUH UGC-HRD honoured three best teams from different colleges.

Student Seminars

Students are encouraged to prepare and present seminars in subjects in the scheduled hours given in the Time Table by using LCD Projector and Power Point presentations.

Symposium

College organizes Symposia to encourage, inspire and challenge students by inviting eminent personalities like renowned Academicians, Researchers, Scientists, CEOs, and important Government Officials and Politicians.


Team Super Ignite 5.0 Inaugurated A New Centre of Excellence Lab for Automobiles in August 2018

Training

Industry-academia interaction has made our education being more industry specific, guided and structured by different industries. The placement cell conducts short term value added courses (like J2EE, GIS, .Net, Testing tools, embedded systems etc.) in the vacation for interested students.

Industrial and Study Tours

Local industrial visits are arranged for II and III Year students Outstation Industrial tours will be permitted for final years only during the semester break.


Srisailam (Right) Power Plant Industrial Visit by Student of III-EEE-GNI

Visit To Bsnl, Regional Telecom Training Centre, Hyderabad

Guest Lectures

Eminent personalities from Research, Industry and Academics are invited to enrich the knowledge of the students with latest technology.

Entrepreneur Development Cell (EDC)

Students interested to become Entrepreneurs are encouraged by the Management and started conductingdifferent programmes under NATIONAL ENTREPRENEUR NETWORK (NEN) and the response for theregistrations good number of students completed their training and registrations are in progress.

GNI Management Congratulating students on Completion of EDC Training

Graduation Day:

The Most unforgettable day of the Student Life on completion of the Journey of 4 years with overwhelming excitement and mixed emotions about starting a whole new chapter in the life, start career path saying goodbye to beloved friends.

Graduation Day-2018" conducted on 07th July, 2018

Interaction with the parent community

The New Budding Engineers accompanied by the Parents having cheering face are welcomed to the most important day walking into the New Technical World of environment with lots of hope for over all development along with good academic standby, placement, career growth, and a happy stay of 4 years.

Professional Societies / Student Chapters

Today's industry and other organizations which provide career opportunities look for the following capabilities in students:

- Latest knowledge in their respective and related fields.
- Communication skills, interactive skills and professional acquaintances
- Technical writing skills
- There are a couple of societies related to each discipline/branch where students can become members to achieve above capabilities. These societies organize lectures, seminars, workshops, and conferences for students and professionals. These societies publish magazines and journals with latest knowledge, which they send to the students at their addresses as a part of membership package. These publications are monthly / quarterly / half-yearly and annual. It is beneficial for students to become members of these societies.

S. No.	Branch	Name of the Institution
1	CSE	1. Computer Society of India (CSI) 2. Indian Society for Technical Education (ISTE) 3. Institute of Electrical and Electronics Engineers (IEEE) 4. Indo US Collaboration for Engineering Education (IUCEE)
2	IT	1. Computer Society of India (CSI) 2. Indian Society for Technical Education (ISTE) 3. Institute of Electrical and Electronics Engineers (IEEE)
3	ECE	1. Institute of Electronics and Telecommunication Engineers (IETE) 2.Indian Society for Technical Education (ISTE) 3.Institute of Electrical and Electronics Engineers (IEEE)
4	EEE	1. Institution of Engineers (IE) 2. Indian Society for Technical Education (ISTE) 3. Institute of Electrical and Electronics Engineers (IEEE)
5	ME	1. Institution of Engineers (IE) 2. Indian Society for Technical Education (ISTE) 3. Society of Automobile Engineering (SAE) 4. Mechanical Engineering Association (MEA) 5. American Society from Mechanical Engineering (ASME) 6. Indian Institute of Welding (IIW)
7.	CE	1.Indian Society for Technical Education (ISTE) 2.Civil Engineering Students Association (CESA) 3.Help In Time Association (HITA)
8.	H&S	1.Acoustical Society of India – Hyderabad Chapter (ASI-H) 2.Andhra Pradesh Society for Mathematical Sciences (APSMS)

NSS: The foundation of NSS Unit was laid at GNIT on 02.09.2008 with the approval of JNTUH.

Programs being conducted include:

- Blood Donation Camp.
- Aids Awareness Camp.
- Village Survey.
- Free Medical Camp.
- Hygiene & Cleanliness Awareness Program in nearby villages etc.
- Save Water and Trees.
- Tree Plantation.
- Plastic Free Campus
- Musi river Cleaning

- Special Camp at Adopted village (Medipally)
- Voters Enrollment

CANCER AWARENESS 5K RUN" organized by Yashoda Hospital, Malakpet on 03rd February 2019 from Saroor Nagar Stadium, LB Nagar to Kothapet center and back to the stadium. IAS and IPS officers, doctors, students are witnessed and participated in the event

NSS unit of GNIT organized Telangana Haritha Haram Program on 21st July, 2018

Kashmir Youth Exchange Programme at Guru Nanak Institute of Technology

As a part of Kashmiri Youth Exchange Programme conducted by Nehru Yuva Kendra Sangathan (NYKS), in Hyderabad, a seminar on Career Guidance was conducted on 14th Dec., 2018 at Guru Nanak Institute of Technology followed by cultural events by NSS volunteers of Kashmir, GNIT, SREYAS, AVN and other Engineering Colleges. The Chief Guest of the programme was Dr.Vishnu Dev, State NSS officer, Telangana. The programme was presided over by Mr.Hameed, JDM, DRDA, and attended by Dr.H.S.Saini, MD, GNI.

Alumni Association:

College maintains a database of all students' recruitments, higher studies abroad and in Indian Universities through regular interaction over E mail, Social Networking and Group mailing etc. The college conducts an alumni meet in odd semester every year.

COMMITTEES

Various Committees have been constituted to streamline the administration of the entire institution. These committees, in consultation with the Principal, plan and execute various programs for the smooth functioning and the general development of the institution. Committee members are drawn from both the teacher and student community. Student members are nominated by the respective Department Heads based on academic record of the students. The following committees have been constituted for the ongoing academic year:

COMMITTEE					
1	Anti Ragging Committee	2	Discipline	3	Academic Audit Committee
4	Library Committee	5	Transport Committee	6	Canteen Committee
7	Sports Committee	8	NSS cell	9	EDC Cell
10	Women's Empowerment Committee	11	Professional Activities Committee	12	Grievance & Students Redressal Committee
13	Staff Grievance Redressal Committee	14	Hostel	15	Department Technical Associations

OUTCOME-BASED EDUCATION (OBE)

Outcome-Based Education (OBE) is a student-centric teaching and learning methodology in which the course delivery, assessment are planned to achieve stated objectives and outcomes. It focuses on measuring student performance i.e. outcomes at different levels.

Some important aspects of the Outcome Based Education

1. **Course** is defined as a theory, practical or theory cum practical subject studied in a semester. For Eg. Engineering Mathematics
2. **Course Outcome (CO)** Course outcomes are statements that describe significant and essential learning that learners have achieved, and can reliably demonstrate at the end of a course. Generally three or more course outcomes may be specified for each course based on its weightage.
3. **Programme** is defined as the specialization or branch. It is the interconnected arrangement of courses, co-curricular and extracurricular activities to accomplish predetermined objectives leading to the awarding of a degree. For Example: B.Tech Computer Science Engineering.
4. **Programme Outcomes (POs)** Program outcomes are narrower statements that describe what students are expected to be able to do by the time of graduation. POs are expected to be aligned closely with Graduate Attributes.
5. **Program Educational Objectives (PEOs)** The Programme Educational Objectives of a program are the statements that describe the expected achievements of graduates in their career, and also in particular, what the graduates are expected to perform and achieve during the first few years after graduation.
6. **Programme Specific Outcomes (PSO)** Programme Specific Outcomes are what the students should be able to do at the time of graduation with reference to a specific branch. Usually there are two to four PSOs for a programme.

Knowledge levels for assessment of Outcomes based on Blooms Taxonomy

Level	Parameter	Description
L1	**Knowledge**	It is the ability to remember the previously learned material/information
L2	**Comprehension**	It is the ability to grasp the meaning of material.
L3	**Application**	It is the ability to use learned material in new and concrete situations

L4	**Analysis**	It is the ability to break down material/concept into its component parts/subsections so that its organizational structure may be understood
L5	**Synthesis**	It is the ability to put parts/subsections together to form a new whole material/idea/concept/information
L6	**Evaluation**	It is the ability to judge the value of material/concept/statement/creative material /research report) for a given purpose

PROGRAMME OUTCOMES:

Engineering Graduates will be able to:

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics natural science, and engineering sciences.
3. **Design / development of solutions:** Design solutions for complex engineering problems and design system components or process that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, society and environmental consideration.
4. **Conduct Investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethics principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in an team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM EDUCATIONAL OBJECTIVES:

PEO 1: Graduates shall have the ability to apply knowledge across the Branches and in emerging areas of CE/ME/EEE/ECE/CSE/IT for higher studies, research, employability and handle the realistic problems.

PEO 2: Graduates shall have good communication skills, to possess ethical conduct, sense of responsibility to serve the society, and protect the environment.

PEO 3: Graduates shall have strong foundation in academic excellence, soft skills, managerial skills, leadership qualities and understand the need for lifelong learning for a successful professional career.

Programme Specific Outcomes (PSO)

CIVIL ENGINEERING:

PSO.1: Civil Engineering graduates shall demonstrate sound knowledge in analysis, design, laboratory investigations and construction aspects of civil engineering infrastructure, along with good foundation in mathematics, basic sciences and technical communication.

PSO.2: Civil Engineering graduates will have a broad understanding of economical, environmental, societal, health and safety factors involved in infrastructural development, and shall demonstrate ability to function within multidisciplinary teams with competence in modern tool usage.

PSO.3: Civil Engineering graduates will be motivated for continuous self-learning in engineering practice and/ or pursue research in advanced areas of civil engineering in order to offer engineering services to the society, ethically and responsibly.

MECHANICAL ENGINEERING

PSO.1: Ability to solve contemporary issues related to manufacturing and industrial automation through internship integrated program curriculum that includes knowledge, practice and hands on training

PSO.2: Able to analyze, design and develop/model mechanical and its allied systems using software tools such as AUTOCAD, ANSYS, Creo etc

ELECTRICAL AND ELECTRONICS ENGINEERING

PSO 1: Able to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all electrical courses in particular to identify, formulate and solve real life problems faced in industries and/or during research work.

PSO 2: Able to provide socially acceptable technical solutions to complex electrical engineering problems with the application of modern and appropriate techniques for sustainable development.

PSO 3: Able to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team

INFORMATION TECHNOLOGY

PSO 1: To demonstrate basic knowledge in the areas such as Software Engineering, Data communication and Networking, Data base management, Web Technology and Operating Systems for building IT applications

PSO 2:To analyze common business functions and identify, design and develop appropriate information technology solutions and integrate into the user environment

PSO 3:The ability to develop software projects using standard practices and suitable programming environment and to apply knowledge in exploring and adopting latest technologies.

COMPUTER SCIENCE ENGINEERING

PSO1: Professional Skills: The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.

PSO2: Problem-Solving Skills: The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.

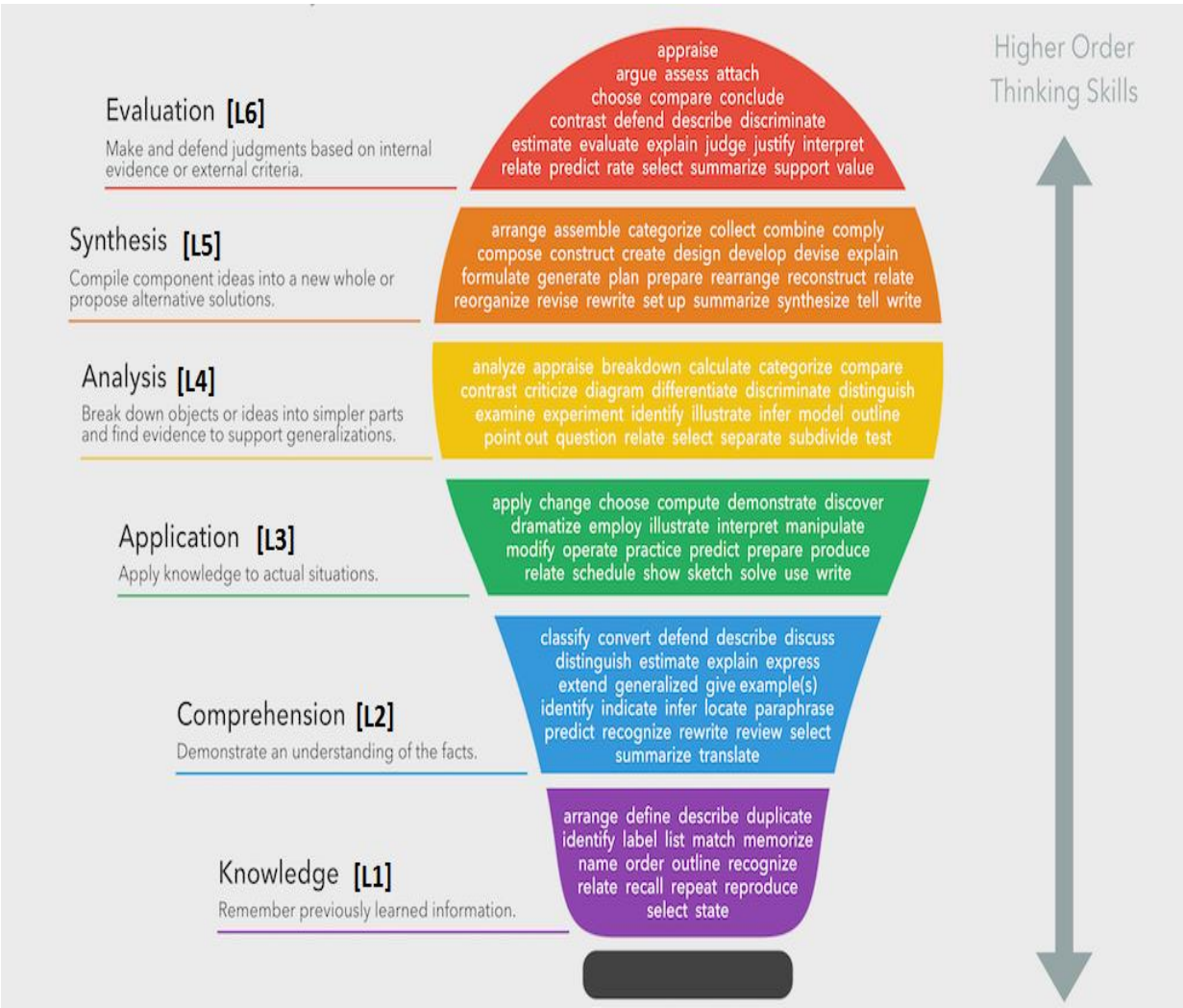
PSO3: Successful Career and Entrepreneurship: The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and a zest for higher studies.

ELECTRONICS AND COMMUNICATION ENGINEERING

PSO 1: After completion of the program the graduate will be able to apply fundamental knowledge of Electronics to design Circuits and to develop the Integrated circuits for various applications in the field of Communication, Signal processing and in System automation

PSO 2: After completion of the program the graduate will be able to develop product by using Electronics Engineering related cutting edge software and hard ware tools

BLOOMS TAXNOMY LEVELS



Both Internal and External Examination papers are set basing on Bloom's Taxonomy Verb's