



AVANTHI
INSTITUTE OF ENGINEERING & TECHNOLOGY
ECE, CSE & EEE UG Programmes are Accredited by NBA
Approved by AICTE, Recgd by Govt. of TS and Affiliated to JNTU (H)

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode Response:

Institute follows the university guidelines for the internal assessment of the theory and laboratory exams. Our internal assessment is very apparent and transparent because of the care taken in the following features:

Well defined assessment schedule is designed for every semester which is a part of the academic calendar. Course curriculum and distribution of marks for every test is predefined and revealed to the students well in advance. Scheme of evaluation is published in the institute's website immediately after the completion of examinations.

Two mid-term exams are conducted as per the guidelines of the university and five unit wise assignment tests are conducted as per the Institute's academic calendar. After the assessment, answer scripts of mid-term examinations are distributed among the students and the solutions are discussed for their benefit and also to shed the apprehensions and to maintain transparency in the evaluation. The marks obtained by the students in internal assessments are displayed in the departments' notice boards.

Students' performance during their practical sessions is updated in the attendance registers. It is evaluated based on their timely submission of lab records, regularity and performance in the laboratory for 15 marks. Two internal lab exams are conducted in each semester and the average of two performances are considered for 10 marks. Spell-wise attendance of students and performance in unit tests, mid-term tests are displayed in the notice boards. It is communicated to the parents and discussed in the Parent- Teacher Meeting. Slow learners are given another chance to improve their performance in the unit tests by re-conducting the exam.

Project work is evaluated by conducting three reviews in a semester to know the progress of the work and the evaluation sheets are maintained. This enables the students to remain focused and turning to be confident besides the improvement of the presentation skills and communication skills


PRINCIPAL
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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 (EC)	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.


Principal
K. J. Somaiya Institute of Engineering & Technology
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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
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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 $GP \geq 5$ ('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

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

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

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

(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)
1	Course 1	3	A	8	24
1	Course 2	3	O	10	30
1	Course 3	3	B	6	18
1	Course 4	4	A	8	32
1	Course 5	3	A+	9	27
1	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.

- 9.10** 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.


Head of the Department of C.E. & T.E.
 Government Engineering College, Bangalore

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 1 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".


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Sciences, University of Hull



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	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

	of the examination (theory or 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 subject

	<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>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>
7.	<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>
8.	<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.



AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, Recognised by Govt. of Telangana & Affiliated to JNTU, Hyderabad)

Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.

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JAWAHARLAL NEBRU TECHNOLOGICAL UNIVERSITY BYDERABAD

ACADEMIC CALENDAR 2021-22

B. TECH I YEAR I & II SEMESTERS


I SEM

S. No	Description	DURATION	
		From	To
1	Induction program	09.12.2021 to 18.12.2021	
2	1 st Spell of Instructions	20.12.2021	12.02.2022 (8 Weeks)
3	First Mid Term Examinations	14.02.2022	19.02.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	26.02.2022	
5	2 nd Spell of Instructions	21.02.2022	23.04.2022 (9 Weeks)
6	Second Mid Terri Examinations	25.04.2022	30.04.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	02.05.2022	07.05.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	07.05.2022	
9	End Semester Examinations	09.05.2022	21.05.2022 (2 Weeks)

II SEM

S. No	Description	DURATION	
		From	TO
1	Commencement of II Semester classwork	23.05.2022	
2	1 st Spell of Instructions	23.05.2022	16.07.2022 (8 Weeks)
3	First Mid Term Examinations	18.07.2022	23.07.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	30.07.2022	
5	2 nd Spell of Instructions	26.07.2022	17.09.2022 (8 Weeks)
6	Second Mid Term Examinations	19.09.2022	24.09.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	26.09.2022	01.10.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	01.10.2022	
9	End Semester Examinations	03.10.2022	18.10.2022 (2 Weeks)

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ACADEMIC CALENDAR 2021-22

B. TECH./B.PHARM. II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Dussehra Recess	11.10.2021	16.10.2021 (1 Week)
2	Commencement of I Semester classwork		18.10.2021
3	1 st Spell of Instructions	18.10.2021	11.12.2021 (8 Weeks)
4	First Mid Term Examinations	13.12.2021	18.12.2021 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		24.12.2021
6	2 nd Spell of Instructions	20.12.2021	12.02.2022 (8 Weeks)
7	Second Mid Term Examinations	14.02.2022	19.02.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	21.02.2022	26.02.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		26.02.2022
10	End Semester Examinations	28.02.2022	12.03.2022 (2 Weeks)

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		14.03.2022
2	1 st Spell of Instructions (including Summer Vacation)	14.03.2022	28.05.2022 (11 Weeks)
3	Summer Vacation	09.05.2022	21.05.2022 (2 Weeks)
4	First Mid Term Examinations	30.05.2022	04.06.2022 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		11.06.2022
6	2 nd Spell of Instructions	06.06.2022	30.07.2022 (8 Weeks)
7	Second Mid Term Examinations	01.08.2022	06.08.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	09.08.2022	16.08.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		16.08.2022
10	End Semester Examinations	17.08.2022	30.08.2022 (2 Weeks)

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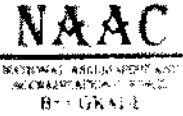


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B. TECH. BPHARM. III & IV YEARS I & II SEMESTERS 2021-22


I SEM

S. No	Description	Duration	
		From	To
1	Commencement off Semester classwork	06.09.2021	
2	1st Spell of Instructions (including Dussehra Recess)	6.09.2021	06.11.2021 (9 Weeks)
3	Dussehra Recess	11.10.2021	16.10.2021 (1 Week)
4	First Mid Term Examinations	8.11.2021	13.11.2021 II Week)
5	Submission of First Mid Term Exam Marks to the University on or before		20.11.2021
6	2nd Spell of Instructions	15.11.2021	08.01.2022 (8 Weeks)
7	Second Mid Term Examinations	10.01.2022	18.01.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	19.01.2022	25.01.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		25.1.2022
10	End Semester Examinations	27.01.2022	09.02.2022

II SEM

S. No	Description	Duration	
		From	To
1	1st Spell of Instructions	10.02.2022	06.04.2022 (8 Weeks)
2	First Mid Term Examinations	7.04.2022	13.04.2022 (1 Week)
3	Submission of First Mid Term Exam Marks to the University on or before		20.04.2022
4	2nd Spell of Instructions (including Summer Vacation)	6.04.2022	24.06.2022 (10 Weeks)
5	Summer Vacation	9.05.2022	21.05.2022 (2 Weeks)
6	Second Mid Term Examinations	25.06.2022	01.07.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	02.07.2022	09.07.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		9.07.2022
9	End Semester Examinations	11.07.2022	23.07.2022 (2 Weeks)

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ACADEMIC CALENDAR 2021-22

MBA I YEAR I & II SEMESTERS


I SEM

S. No	Description	Duration	
		From	To
1	Commencement of Semester classwork	09.12.2021	
2	1 st Spell of Instructions	09.12.2021	05.02.2022 (9 Weeks)
3	First Mid Term Examinations	07.02.2022	12.02.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	19.02.2022	
5	2 nd Spell of Instructions	14.02.2022	09.04.2022 (8 Weeks)
6	Second Mid Term Examinations	11.04.2022	19.04.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	20.04.2022	26.04.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	26.04.2022	
9	End Semester Examinations	27.04.2022	12.05.2022 (2 Weeks)

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	13.05.2022	
2	1 st Spell of Instructions	13.05.2022	08.07.2022 (8 Weeks)
3	First Mid Term Examinations	09.07.2022	15.07.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	21.07.2022	
5	2 nd Spell of Instructions	16.07.2022	10.09.2022 (8 Weeks)
6	Second Mid Term Examinations	12.09.2022	17.09.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	19.09.2022	24.09.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	24.09.2022	
9	End Semester Examinations	26.09.2022	11.10.2022 (2 Weeks)

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JAWABARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2021-22

M. Tech I YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	15.11.2021	
2	1 st Spell of Instructions	15.11.2021	08.01.2022 (8 Weeks)
3	First Mid Term Examinations	10.01.2022	18.01.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	25.01.2022	
5	2 nd Spell of Instructions	19.01.2022	15.03.2022 (8 Weeks)
6	Second Mid Term Examinations	16.03.2022	22.03.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	23.03.2022	29.03.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	29.03.2022	
9	End Semester Examinations	30.03.2022	16.04.2022 (2 Weeks)

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	18.04.2022	
2	1 st Spell of Instructions (including Summer Vacation)	18.04.2022	25.06.2022 (10 Weeks)
3	Summer Vacation	09.05.2022	21.05.2022 (2 Weeks)
4	First Mid Term Examinations	27.06.2022	02.07.2022 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	09.07.2022	
6	2 nd Spell of Instructions	04.07.2022	27.08.2022 (8 Weeks)
7	Second Mid Term Examinations	29.08.2022	03.09.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	05.09.2022	10.09.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	10.09.2022	
10	End Semester Examinations	12.09.2022	24.09.2022 (2 Weeks)

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JAWAHARLAL NEBRU TECHNOLOGICAL UNIVERSITY BYDERABAD

ACADEMIC CALENDAR 2021-22

M. Tech II YEAR I & II SEMESTERS


I SEM			
S. No.	Description	Duration	
		From	To
1	Commencement of I Semester classwork	09.11.2021	
2	1st Spell of Instructions	09.11.2021	31.12.2021 (8 Weeks)
3	Preparation of Project Work Proposals	09.11.2021	04.12.2021 (4 Weeks)
4	Project Work Review—I: (Project approval / commencement)	06.12.2021	11.12.2021
5	Last date for submission of list of approved PRC-I students from the College to the University Examination branch.	14.12.2021	
6	First Mid Term Examinations	03.01.2022	08.01.2022 (1 Week)
7	Submission of First Mid Term Exam Marks to the University on or before	19.01.2022	
	2nd Spell of Instructions	10.01.2022	05.03.2022 (8 Weeks)
9	Second Mid Term Examinations	07.03.2022	12.03.2022 (1 Week)
10	Preparation Holidays and Practical Examinations	14.03.2022	19.03.2022 (1 Week)
11	Submission of Second Mid Term Exam Marks to the University on or before	19.03.2022	
12	End Semester Examinations	21.03.2022	01.04.2022 (2 Weeks)

II SEM

S. No.	Description	Duration	
		From	To
1	Commencement of II Semester (Project Work Continuation) (13.12.2021 to 04.04.2022 — 16 weeks)	04.04.2022	
2	Project work Review-II (Phase-I)	04.04.2022	09.04.2022 (1 Week)
3	** Project Work Review -II (Phase-II)	26.04.2022	28.04.2022 3 days)
4	Last date for submission of PRC-II marks	02.05.2022	
5	Project Work Review -III (Phase —I) (11.04.2022 to 03.09.2022 - 21 Weeks)	05.09.2022	10.09.2022
6	Last date for submission of Project Work Review-III (Phase-I) Marks	17.09.2022	
7	* Date of eligibility of thesis submission	17.09.2022	

8	Submission of Thesis and Project Viva — Voce Examination (PRC-III Phase-I)		
9	** Project Work Review — III (Phase —II) (12.09.2022 to 10.12.202—2 13 Weeks)	12.12.2022	14.12.202 2 (3 days)
10	Last date for submission of Project Work Review —III (Phase-11) Marks	15.12.2022	
11	Submission of Thesis and Project Viva — Voce Examination (Phase-11) follows		

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EXAMINATION BRANCH

IV YEAR B.TECH – I SEMESTER– R18 REGULATION II - MID TERM EXAMINATIONS JANUARY-2022-(IN OFFLINE MODE)

TIME TABLE

TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBJECTIVE EXAM:12.40 PM TO 1.00 PM)

AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBJECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	10-01-2022 FN MONDAY	10-01-2022 AN MONDAY	11-01-2022 FN TUESDAY	11-01-2022 AN TUESDAY	12-01-2022 FN WEDNESDAY
CIVIL ENGINEERING (01-CE)	Estimation, Costing and Project Management	Professional Practice law & Ethics	E3	E4	OE2
			Remote Sensing & GIS	Irrigation and Hydraulic Structures	Data Structures
			Advanced Structural Design	Pipeline Engineering	Artificial Intelligence Python Programming
			Ground Improvement Techniques	Ground Water Hydrology	Java Programming
					Fundamentals of Biomedical Applications
					Electronic Sensors
					Utilization of Electrical Energy
					Electric Drives and Control
					Basic Mechanical Engineering
					Basics of Aeronautical Engineering
					Intellectual Property Rights
					Principles of Entrepreneurship
					Natural Gas Engineering
			Engineering Materials		
Surface Engineering					
Health & Safety in Mines					
Material Handling in Mines					

Date: 27-12-2021

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EXAMINATION BRANCH

IV YEAR B.TECH – I SEMESTER– R18 REGULATION II - MID TERM EXAMINATIONS JANUARY-2022-(IN OFFLINE MODE)

TIME TABLE

TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBJECTIVE EXAM:12.40 PM TO 1.00 PM)

AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBJECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	10-01-2022 FN MONDAY	10-01-2022 AN MONDAY	11-01-2022 FN TUESDAY	11-01-2022 AN TUESDAY	12-01-2022 FN WEDNESDAY
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Fundamentals of Management for Engineers	---	E3	E4	OE2
			Digital Control systems	HVDC Transmission	Data Structures
			Digital Signal Processing	Power System Reliability	Artificial Intelligence
			Electrical and Hybrid Vehicles	Industrial Electrical Systems	Remote Sensing & GIS
					Python Programming
					Java Programming
					Fundamentals of Biomedical Applications
					Electronic Sensors
					Basic Mechanical Engineering
					Basics of Aeronautical Engineering
					Intellectual Property Rights
					Principles of Entrepreneurship
					Natural Gas Engineering
		Engineering Materials			
		Surface Engineering			
		Health & Safety in Mines			
		Material Handling in Mines			

Date: 27-12-2021

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EXAMINATION BRANCH

IV YEAR B.TECH – I SEMESTER– R18 REGULATION II - MID TERM EXAMINATIONS JANUARY-2022-(IN OFFLINE MODE)

TIME TABLE

TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBJECTIVE EXAM:12.40 PM TO 1.00 PM)

AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBJECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	10-01-2022 FN MONDAY	10-01-2022 AN MONDAY	11-01-2022 FN TUESDAY	11-01-2022 AN TUESDAY	12-01-2022 FN WEDNESDAY
MECHANICAL ENGINEERING (03-ME)	Refrigeration & Air Conditioning	E2	E3	E4	OE2
		Additive Manufacturing	Power Plant Engineering	Computational Fluid Dynamics	Remote Sensing & GIS
		Automation in Manufacturing	Automobile Engineering	Turbo Machinery	Data Structures
		MEMS	Renewable Energy Sources	Fluid Power Systems	Artificial Intelligence
					Python Programming
					Java Programming
					Fundamentals of Biomedical Applications
					Electronic Sensors
					Utilization of Electrical Energy
					Electric Drives and Control
					Basics of Aeronautical Engineering
					Intellectual Property Rights
					Principles of Entrepreneurship
					Engineering Materials
			Surface Engineering		
			Natural Gas Engineering		
			Health & Safety in Mines		
			Material Handling in Mines		

Date: 27-12-2021

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EXAMINATION BRANCH

IV YEAR B.TECH – I SEMESTER– R18 REGULATION II - MID TERM EXAMINATIONS JANUARY-2022-(IN OFFLINE MODE)

TIME TABLE

TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBJECTIVE EXAM:12.40 PM TO 1.00 PM)

AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBJECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	10-01-2022 FN MONDAY	10-01-2022 AN MONDAY	11-01-2022 FN TUESDAY	11-01-2022 AN TUESDAY	12-01-2022 FN WEDNESDAY
ELECTRONICS AND COMMUNICATION ENGINEERING (04-ECE)	Microwave and Optical Communications	Professional Practice law & Ethics	E3	E4	OE2
					Data Structures
			Artificial Neural Networks	Biomedical Instrumentation	Artificial Intelligence
					Remote Sensing & GIS
					Python Programming
			Scripting Languages	Database Management Systems	Java Programming
					Fundamentals of Biomedical Applications
			Digital Image Processing		Utilization of Electrical Energy
				Network Security and Cryptography	Electric Drives and Control
					Basic Mechanical Engineering
					Basics of Aeronautical Engineering
					Intellectual Property Rights
					Principles of Entrepreneurship
					Basic Mechanical Engineering
		Natural Gas Engineering			
		Engineering Materials			
		Surface Engineering			
		Health & Safety in Mines			
		Material Handling in Mines			

Date: 27-12-2021

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EXAMINATION BRANCH

IV YEAR B.TECH – I SEMESTER– R18 REGULATION II - MID TERM EXAMINATIONS JANUARY-2022-(IN OFFLINE MODE)

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TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBJECTIVE EXAM:12.40 PM TO 1.00 PM)

AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBJECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	10-01-2022 FN MONDAY	10-01-2022 AN MONDAY	11-01-2022 FN TUESDAY	11-01-2022 AN TUESDAY	12-01-2022 FN WEDNESDAY
COMPUTER SCIENCE AND ENGINEERING (05-CSE)	Cryptography & Network Security	Data Mining	E4	E5	OE2
			Graph Theory	Advanced Algorithms	Remote Sensing & GIS
					Fundamentals of Biomedical Applications
					Electronic Sensors
					Utilization of Electrical Energy
					Electric Drives and Control
			Introduction to Embedded Systems	Real Time Systems	Basic Mechanical Engineering
					Basics of Aeronautical Engineering
			Artificial Intelligence	Soft Computing	Intellectual Property Rights
					Principles of Entrepreneurship
					Natural Gas Engineering
					Engineering Materials
			Cloud Computing	Internet of Things	Surface Engineering
					Health & Safety in Mines
Ad-hoc & Sensor Networks	Software Process & Project Management	Material Handling in Mines			

Date: 27-12-2021

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EXAMINATION BRANCH

IV YEAR B.TECH – I SEMESTER– R18 REGULATION II - MID TERM EXAMINATIONS JANUARY-2022-(IN OFFLINE MODE)

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TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBJECTIVE EXAM:12.40 PM TO 1.00 PM)

AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBJECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	10-01-2022 FN MONDAY	10-01-2022 AN MONDAY	11-01-2022 FN TUESDAY	11-01-2022 AN TUESDAY	12-01-2022 FN WEDNESDAY
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)	Analytical Instrumentati on	Professional Practice, Law & Ethics	E3	E4	OE2
			Pharmaceutical Instrumentation	Biomedical Instrumentation	Remote Sensing & GIS
			Virtual Instrumentation		Data Structures
					Artificial Intelligence
			Python Programming		
			MEMS and its applications	Java Programming	
				Computer Networks	Electronic Sensors
					Utilization of Electrical Energy
					Electric Drives and Control
			Artificial Neural Networks	Basic Mechanical Engineering	
				Basics of Aeronautical Engineering	
				Intellectual Property Rights	
				Principles of Entrepreneurship	
				Natural Gas Engineering	
				Engineering Materials	
Surface Engineering					
Health & Safety in Mines					
Material Handling in Mines					

Date: 27-12-2021

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AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBJECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	10-01-2022 FN MONDAY	10-01-2022 AN MONDAY	11-01-2022 FN TUESDAY	11-01-2022 AN TUESDAY	12-01-2022 FN WEDNESDAY
INFORMATION TECHNOLOGY (12- I T)	Information Security	Data Mining	E4	E5	OE2
			Web Security	Intrusion Detection Systems	Remote Sensing & GIS
				Real Time Systems	Fundamentals of Biomedical Applications
				Soft Computing	Electronic Sensors
			Distributed Databases		
			High Performance Computing	Software Process & Project Management	Utilization of Electrical Energy
			Artificial Intelligence		Electric Drives and Control
					Basic Mechanical Engineering
					Basics of Aeronautical Engineering
			Cloud Computing		Intellectual Property Rights
					Principles of Entrepreneurship
			Ad-hoc & Sensor Networks		Natural Gas Engineering
					Engineering Materials
				Surface Engineering	
Health & Safety in Mines					
	Material Handling in Mines				

Date: 27-12-2021

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BRANCH	10-01-2022 FN MONDAY	10-01-2022 AN MONDAY	11-01-2022 FN TUESDAY	11-01-2022 AN TUESDAY	12-01-2022 FN WEDNESDAY
MECHANICAL ENGINEERING (MECHATRONICS) (14-MECT)	Automobile Engineering	E2	E3	E4	OE2
		Operations Research		Power Plant Engineering	Computational Fluid Dynamics
		Computer Organization	Product Design & Assembly Automation	Advanced Kinematics and Dynamics of Machinery	Artificial Intelligence Python Programming
		Advanced Data Structures	Renewable Energy Sources	Flexible Manufacturing Systems	Java Programming
					Fundamentals of Biomedical Applications
					Electronic Sensors
					Utilization of Electrical Energy
					Electric Drives and Control
					Basics of Aeronautical Engineering
					Natural Gas Engineering
					Engineering Materials
					Surface Engineering
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BRANCH	10-01-2022 FN MONDAY	10-01-2022 AN MONDAY	11-01-2022 FN TUESDAY	11-01-2022 AN TUESDAY	12-01-2022 FN WEDNESDAY
METALLURGICAL AND MATERIALS ENGINEERING (18-MMT)	Introduction to Instrumentation	Fundamentals of Management for Engineers	E3	E4	OE2
			Alternate Routes of Iron & Steel Making	Functional Materials	Remote Sensing & GIS
				Computational Materials Engineering	Data Structures
					Artificial Intelligence
			Ceramics Science and Technology	Python Programming	Java Programming
				Bio Materials	Fundamentals of Biomedical Applications
					Electronic Sensors
					Utilization of Electrical Energy
				Non-Destructive Testing	Electric Drives and Control
				Basic Mechanical Engineering	
				Basics of Aeronautical Engineering	
			Intellectual Property Rights		
			Principles of Entrepreneurship		
			Basic Mechanical Engineering		
			Natural Gas Engineering		
Health & Safety in Mines					
Material Handling in Mines					

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BRANCH	10-01-2022 FN MONDAY	10-01-2022 AN MONDAY	11-01-2022 FN TUESDAY	11-01-2022 AN TUESDAY	12-01-2022 FN WEDNESDAY
AERONAUTICAL ENGINEERING (21-AE)	Vibration and Aero-elasticity	E2	E3	E4	OE2
		Space Mechanics	Experimental Aerodynamics	Industrial Aerodynamics	Remote Sensing & GIS
					Data Structures
					Artificial Intelligence
		Rockets and Missiles			Python Programming
					Java Programming
		Wind Tunnel Technique	Hypersonic Aerodynamics	Turbo Machinery	Fundamentals of Biomedical Applications
					Electronic Sensors
			Advanced Computational Aerodynamics		Utilization of Electrical Energy
					Electric Drives and Control
					Basic Mechanical Engineering
					Intellectual Property Rights
					Principles of Entrepreneurship
					Natural Gas Engineering
					Engineering Materials
Surface Engineering					
Health & Safety in Mines					
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Date: 27-12-2021

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BRANCH	10-01-2022 FN MONDAY	10-01-2022 AN MONDAY	11-01-2022 FN TUESDAY	11-01-2022 AN TUESDAY	12-01-2022 FN WEDNESDAY
MINING ENGG. (25-MNE)	Underground Metal Mining Technology	Mine Legislation	E3	E4	OE2
			Advanced Surface Mining	Rock Slope Technology	Remote Sensing & GIS
					Data Structures
			Rock Fragmentation Engineering	Mine Systems Engineering	Artificial Intelligence
					Python Programming
			Risk Assessment and Management	Dimensional Stone Technology	Java Programming
					Fundamentals of Biomedical Applications
					Electronic Sensors
					Utilization of Electrical Energy
					Electric Drives and Control
					Basic Mechanical Engineering
					Basics of Aeronautical Engineering
					Intellectual Property Rights
			Principles of Entrepreneurship		
		Natural Gas Engineering			
		Engineering Materials			
		Surface Engineering			

Date: 27-12-2021

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BRANCH	10-01-2022 FN MONDAY	10-01-2022 AN MONDAY	11-01-2022 FN TUESDAY	11-01-2022 AN TUESDAY	12-01-2022 FN WEDNESDAY
PETROLEUM ENGINEERING (27 - PTME)	Petroleum Economics, Policies & Laws	E2	E3	E4	OE2
		Optimization of Upstream Processes	Shale Gas Reservoir Engineering	Pipeline Maintenance Engineering	Remote Sensing & GIS
					Data Structures
			Petroleum Reservoir Stimulation	Natural Gas Processing	Artificial Intelligence
					Python Programming
			Petroleum Reservoir Modelling & Simulation	Petrochemical Engineering	Java Programming
					Fundamentals of Biomedical Applications
		Electronic Sensors			
		Utilization of Electrical Energy			
		Electric Drives and Control			
		Chemical Reaction Engineering	Offshore Engineering	Basic Mechanical Engineering	
				Basics of Aeronautical Engineering	
				Intellectual Property Rights	
			Principles of Entrepreneurship		
			Engineering Materials		
			Surface Engineering		
			Health & Safety in Mines		
			Material Handling in Mines		

Date:27-12-2021

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CONTROLLER OF EXAMINATIONS

Note: ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY.

- (i) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL
- (ii) READMITTED STUDENTS HAVE TO APPEAR FOR THE SUBSTITUTE SUBJECT(S) [WHICH IS/ARE NOT SHOWN IN THE TIME-TABLE] IN PLACE OF THE SUBJECT(S) ALREADY PASSED. FOR DETAILS OF SUBSTITUTE SUBJECTS REFER THE COMMUNICATIONS RECEIVED FROM THE DIRECTOR OF ACADEMIC & PLANNING.
- (iii) THE PATTERN OF THE DESCRIPTIVE AND OBJECTIVE TYPE PAPERS SHALL BE IN REGULAR PATTERN AS GIVEN IN R18 REGULATION



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
HYDERABAD-500085**

Avanathi Institute of Engineering and Technology(Q6)

B.Tech - R18 - IV Year - I Semester

MECHANICAL ENGINEERING

Final University Consolidated Internal Marks Report-Date- 2022-03-02 12.06.22

HNT0	15708	15732	157AB	157DE	157DK	157EA	157EP
15Q61A0334	-1	-1	5	5	5	5	5
16Q65A0328	-1	-1	5	5	5	5	5
16Q65A0330	-1	-1	5	5	5	5	5
16Q65A0336	-1	-1	5	5	5	5	5
17Q61A0304	75	18	5	18	10	10	15
17Q61A0314	-1	-1	5	5	5	5	5
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17Q61A0327	70	17	12	10	10	11	12
17Q65A0306	-1	-1	5	5	5	5	5
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18Q61A0302	90	22	19	20	17	16	19
18Q61A0303	90	20	20	19	16	15	20
18Q61A0304	94	22	21	22	20	21	21
18Q61A0305	92	21	19	22	17	17	20
18Q61A0306	90	21	20	22	16	17	18
18Q61A0307	79	18	11	18	10	11	13
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18Q65A0308	-1	-1	5	5	5	5	5
18Q65A0316	-1	-1	5	5	5	5	5
18Q65A0324	-1	-1	5	5	5	5	5
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19Q65A0304	95	22	23	23	19	23	20
19Q65A0305	95	22	23	23	20	21	20
19Q65A0306	89	21	19	19	17	20	20
19Q65A0307	89	21	22	21	21	20	21
19Q65A0308	90	20	19	13	12	12	19
19Q65A0309	87	20	11	21	16	17	20

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19Q65A0313	94	22	21	23	20	22	19
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19Q65A0316	94	22	20	21	18	21	20
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19Q65A0318	90	21	18	20	18	19	16
19Q65A0319	87	21	21	23	19	22	20
19Q65A0320	89	21	19	22	17	17	18
19Q65A0321	85	21	20	20	17	15	18
19Q65A0322	86	20	5	10	5	10	5
19Q65A0323	-1	-1	5	5	5	5	5
19Q65A0324	87	20	22	22	17	18	20
19Q65A0325	-1	-1	5	5	5	5	5
19Q65A0326	85	20	5	13	11	5	5
19Q65A0327	84	20	18	20	17	16	16
19Q65A0328	-1	-1	5	15	5	5	5
19Q65A0329	93	22	19	19	17	21	17
19Q65A0330	92	20	12	19	11	11	13
19Q65A0331	90	21	22	22	20	19	18
19Q65A0332	93	21	21	22	17	18	18
19Q65A0333	92	20	19	12	17	16	17
19Q65A0334	82	18	11	18	10	12	13
19Q65A0335	-1	-1	5	5	5	5	5
19Q65A0336	95	22	18	22	18	19	14
19Q65A0337	-1	-1	5	5	5	5	5
19Q65A0338	90	20	12	12	11	12	9
19Q65A0339	95	22	20	21	17	18	11
19Q65A0340	89	21	20	21	16	16	18
19Q65A0341	87	21	5	10	5	5	5
19Q65A0342	93	21	20	22	16	18	18
19Q65A0343	82	20	18	22	18	18	17
19Q65A0344	84	20	19	13	15	16	16
19Q65A0346	85	20	5	10	5	11	5
19Q65A0347	89	20	17	21	15	17	16
19Q65A0348	82	19	19	21	16	18	16
19Q65A0349	89	20	13	19	16	21	17
19Q65A0350	94	21	22	22	18	23	18
19Q65A0351	84	21	13	12	10	12	9
19Q65A0352	87	21	21	22	17	18	17
Total:74	484 3	112 9	101 6	112 2	935	996	977



INTERNAL DISSCRIPTIVE EXAM - MID 2



NAME: G. Sumana

ROLL No.: 19065A0305

CLASS: IV year Mech SEM. II

SIGNATURE OF THE STUDENT: Sumana

10/10
9/10
sh

DATE: 29/6/22

Subject: Industrial Robotics

SIGNATURE OF THE INVIGILATOR'S: *sh*

TOTAL MARKS

--

Q:- Define automation & explain types?

A:- → The process in which performing operation by using different kind of machine Automations & done by using control systems and by using information technologies and this will reduce the human work.

→ The industrial automation is the process in which creating the products with the help of computers and programmable controllers. Automation use control systems such as numerical controls, PLC, and other industrial control systems. By using computer aided technologies such as CAD, CAM, CAX.

* Features of Industrial automation :-

→ There could be automatic machines tools to process parts

sh

PRINCIPAL
 Avanthi Institute of Engg & Tech

→ Assembly machines are automatic and used for assembling.

→ Assembly machines are automatic

→ Quality Control is done by using automatic Inspection System.

→ Due to the automatic there is Computer process control and feedback control.

Advantages :-

→ Because of Industrial automation the manufacturing tasks can be done quickly and effectively.

need of automation:-

→ By the help of automation we can replace or can reduce upto 90% and human can cause error and in certain condition the error can increase, and that is why we need automation.

• What are types of automation?

→ programmable automation

→ flexible automation

→ fixed automation.

→ Programmable automation:

By using this the production automation is capable to handle different product configurations. In the

programmable automation the operation sequence.

is controlled by the program and will be set by the instructions. and the system will be able to read these instructions and are capable to do necessary operations.

→ flexible automation;

→ By this type of automation the system can be changed from one job to the next quickly and it won't take any time. By using the flexible automation different kinds of products can be manufactured.

→ fixed automation;

In this type of operation the sequence of processing the operation is done by the equipment configuration. The sequence operation is done by the equipment configuration.

→ Advantages :

- Productivity is increased
- improved Quality
- Cost is reduced
- Safety in worked conditions.
- Accuracy
- reliability
- Quality



disadvantages

- The sensors or robots that are used in automation can't take any judgment call.
- It takes time to repair.
- It could be hazardous and also can cause problems.

Q) Explain about Accuracy & Repeatability?

1) Accuracy :-

The formal definition of Accuracy is "the degree to which a measurement, calculation, or specification conforms to the correct or known value or standard." In relation to a linear drive system, this can be taken to mean the degree to which the final position matches the commanded position. So, if we command a rack & pinion system to travel 35 mm. accuracy.

2) Repeatability :-

It is a drive mechanism's ability to return the same position multiple times under identical conditions. Repeatability can be defined as uni-directional in which the point is always

approached from the same direction, or
bi-directional, in which the point can be
approached from either direction.

For real world ex g

lets consider a basketball player. if the
player is accurate he'll always get the ball
close to the hoop. if his shooting is repeatable,
he'll always shoot to the same location.



9/10

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
IV B.Tech II Sem., I Mid-Term Examinations, MAY - 2022
ROBOTICS
Objective Exam

Name: G. Sumana Hall Ticket No.

1	9	0	6	r	A	0	3	0	5
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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

Choose the correct alternative:

- Based on finger movement, Mechanical gripper can be classified as _____
A. pivoting movement B. linear or translational movement. C. Both a & b D. none (b)
- A _____ connects two or more links.
A. Joint B. actuator C. sensor D. sensor (a)
- The following coordinate systems are used to find Forward Kinematics and Inverse Kinematics equation for position analysis.
A. Cartesian B. Cylindrical C. Spherical D. all the above (c)
- A Spherical coordinate robot should have _____ joints
A. one revolute and two prismatic B. three prismatic C. two revolute and one prismatic D. a,b & c (b)
- Which of the following is the person who wrote the three laws of robotics?
A. Karel Capek B. Isaac Asimov C. Joseph-Marie Jacquard D. Richard Hohm (b)
- Homogeneous transformation is based on mapping 3- Dimensional space into _____ dimensional space.
A.1 B.2 C.3 D.4 (c)
- A transformation matrix must be in _____ form.
A. Triangle B. square C. rectangle D. circle (d)
- A robot with cylindrical configuration has
A. 3P B. 2P2R C. 1P3R D. 3R (c)
- Robots ability to position its wrist end at a desired target point with in the work volume is _____
A. Accuracy B. Repeatability C. Resolution D. Pay load (d)
- Based on the coordinate system robots can be classified as _____ robots.
A. Cartesian B. Spherical. Cylindrical D. a,b & c (a)

FILL IN THE BLANKS

- At the end of the arm clavicle is attached
- A device that attaches to the wrist of the robot arm and enables the general purpose robot to perform specific task is known as end effector.
- The devices used to grasp and hold the objects in a robot are called grippers
- The total number of DOF that rigid body in free space has is 6
- D-H notation is used for solving attaching problems.
- Translational matrix is the representation of 3 number of basic movement for a robot.
- A controller is a reprogrammable, multifunctional manipulator designed to move material, parts, tools or specialized devices through variable programmed motions for the performance of a variety of tasks.
- Robotic First Law states that a robot shall not harm a human, or by inaction allow a
- DLR Kinematics we used to determine where the robot's hand is? human to come to harm
- Expand DH Representation Denavit - Hartenberg

Handwritten signature

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

IV-B.TECH I SEMESTER

SUB: ROBOTICS

MID-1

MARKS: 10

PART-A

NOTE: Answer any two questions and each question carries 5 marks.

1. Explain about accuracy and repeatability.

OR

2. What is mean by actuator? Mention the types and explain about any one actuator with neat diagram.

3. Define automation and explain about different types of automation.

OR

4. Explain the robotic applications .



Avanthi Institute of Engineering & Tech
Capthegatla (V), Abudla (M), R.R. Siki

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by JNTU Act No. 30 of 2008)
Kukatpally, Hyderabad – 500 085 Telangana (India)
ACCREDITED BY NAAC WITH 'A' GRADE

Dr. M. Chandra Mohan

B.E.,M.Tech.,Ph.D.

**Professor of Computer science and Engineering &
DIRECTOR OF EVALUATION**

Lr.No.1021 DE/JNTUH/B.Tech. Examinations February-2022, Dated 24-12-2021

To
The Principals of
JNTUH Constituent and Affiliated Colleges offering B.Tech. Courses

Sir/Madam,

Sub: JNTUH, Hyderabad - Examination Branch - B. Tech. Examinations February-2022– Notification.
Instructions to the Principals –Reg.

* * * * *

The Principals of the constituent and affiliated Engineering Colleges are hereby informed that the University Examination Branch issues notification for the conduct of B. Tech. III year I Sem. and IV Year I-Sem. Regular/Supply and III Year II Sem. Supply Examinations during February-2022.

This notification is issued for the conduct of following examinations:

1.	III B. Tech. I Sem. (R18) – Regular/Supply
2.	III B. Tech. I Sem. (R16, R15, R13, R09) - Supplementary
3.	IV B. Tech. I Sem. (R18) – Regular
4.	IV B. Tech. I Sem. (R16, R15, R13, R09) - Supplementary
5.	III B. Tech. II Sem. (R18, R16, R15, R13, R09) - Supplementary

Note:- The question paper will be in regular pattern i.e, as mentioned in the respective academic regulations.

The Principals are requested to note the following instructions:

1. Every college has to make the consolidated fees (Exam. Registration fee + Condonation fee + part-1 cut slip penalties) payment for all the above examinations in the form of a single RTGS / NEFT / GRPT Transfer to the Registrar's Bank Account No.62079988622 (State Bank of India, JNTUH Campus Branch, IFSC/RTGS/GRPT Code: SBIN0021008).

(Contd.2)

2. The Student registration should be done through the specified url address given in the tables

Table : URL address for different colleges

COLLEGE CODES	URL address
7, 8, 24, 25, 26, 27, 28, 32, 37, 60, 64, 65, 68, 84, 86, 87, 91, 92, 95, 1R, 5R, 5X, 6C,6D, 6E, 6J, 6K, 6L, 6P, 6R, 6T, 6U, 6X, 6Y, 7A, 7G, AN, B7, B9, BD, BR, C2, C3, C4,C5, C6, C8, D9, E3, E6, EK, HD, J0, J1, J4, J9, K4, K7, K8, K9, L5, M6, N0, N6, N9,P8, PP, Q9, QD, QK, QP, QT, R0, R2, R4, R7, RC, RH, RJ, RT, S4, S5, TD, TF, TJ, TK,TM, TR, U3, U5, U8, UC, UD, UE, UK, UM, UN, UU, W0, W7, W9,WH, X6.	http://registrations1.jntuh.ac.in/olrbtech
14, 21, 29, 36, 40, 56, 57, 58, 59, 62, 63, 66, 79, 80 ,82, 83, 89, 93, 94, 5A, 5C, 5G, 5J, 5Q, 5T, 5Y, 5Z, 6B, 6N, 6W, 7D, 7E, 7N, 7P, 7U, 7W, 8B, AU, B3, B4, B5, BH, C1, C7,D0, D1, D3, D7, DN, E0, E4, E5, E7, FG, G7, J3, J6, J7, K0, L0, M5, M8, N2, N5, QE,QG, QN, QU, RE, RF, RM, RN, RQ, RR,SS, TA, TE, TH, TN, TT, TU, U2, U7, UA, UF,UG,UH,UQ,UT,WJ, WK, WL, X8	http://registrations2.jntuh.ac.in/olrbtech
30, 31, 61, 67, 88, 5D, 5E, 5F, 5U, 5W, 6A, 6F,6H, 6M, 6Q, 6Z, 7B, 7C, 7F, 7Q, 7T,7R, 7Y, 7Z, 8A ,8P, 8Q, 8R, 8U, 8W, 8X, 8Y, 9A, 9B, 9C, 9G, 9J, 9K, 9L, 9M, 9P, 9R, AG, AQ, B6, B8, BA, BE, BK, BT, C0, C9, D2, D4, D5, D6, D8, E1, E2, GE, GM, H1,H2, H3, H5, H6, H8, J2, J5, J8, JJ, K3, L7, M1, M2, M3, M4, M9, N1, N3, N4, N7, N8,P0, P6, P7, PQ, PR, PT, PU, Q6, Q8, QA, QC, QF, QH, QJ, QM, QQ, QR, R1, R3, R5,R9, RA, RD, RG, RK, RP , RU, S1, S3, T8, TC, TG, TP, TQ, U0, U1, U6, UJ, UP, UR,VD, VE, VF, VG, W1, W4, W8, X0, X3, X7	http://registrations3.jntuh.ac.in/olrbtech

3. Deadlines for different schedules of events, schedule for booklet collections and the other details are mentioned here under.

STUDENT EXAMINATION REGISTRATION SCHEDULE

EVENT	<i>Start date of registration for Both Regular & Supplementary (at respective colleges)</i>	<i>Last date of registration for both Regular & Supplementary (at respective colleges)</i>	<i>Date for Consolidated Fees Payment (Single RTGS transfer For both Regular & Supplementary Exams and condonation fee)</i>
Exam Registration Without Late Fee	29-12-2021	10-01-2022	31-01-2022 For III & IV Year I Sem & III year II sem
Exam Registration With Late Fee of Rs.100/-	11-01-2022	18-01-2022	
Exam Registration With Late Fee of Rs.1000/-	19-01-2022	27-01-2022	
Exam Registration With Late Fee of Rs.2000/-	28-01-2022	31-01-2022	
Exam Registration With Late Fee of Rs.5000/-	01-02-2022	07-02-2022	
Exam Registration With Late Fee of Rs.10000/- * This late fee application should be manually submitted along with demand draft.	08-02-2022	Till end of the exams	

(Contd.3)

Following activities need to be completed before coming for the collection of exam stationary

<p>a. Submission of Consolidated fees (Exam. Registration fee + Condonation fee + part-1 cut slip penalties) transfer receipt.</p> <p>b. Submission of year-wise detained lists and Condonation lists</p> <p>c. Hard copy of proposed list of observers (minimum of six members). The soft copy of the list should be mailed to the ACE concerned before the time deadline specified by respective ACEs.</p> <p>d. Submission of clearance certificate wherever necessary.</p>	College wise schedule is given in the table below
Collection of pre-printed Answer booklets and practical OMR answer sheets as mentioned in the table below, by submitting the receipt obtained from the counter to the officer concerned.	Refer the table below
Uploading of Attendance of last fortnight by the college for III-I & IV-I Regular students.	21-01-2022 (03.00 pm)
Detained and Condonation list will be generated by University	23-01-2022
DD Report available for Downloading and making payment	25-01-2022
Downloading (through examination portal) and issue of hall-tickets	03-02-2022
Intimation of discrepancies in the pre-printed answer booklets to Examination Branch in person only by college representative	04-02-2022
Collect the correct answer booklets of discrepancy cases	07-02-2022
The last dates for uploading Internal marks	07-02-2022
The last dates for uploading external lab marks	08-02-2022
Submission of consolidated Internal and external lab marks hard copy on or before Addl. Controller of Examinations (Online)	09-02-2022

**ANSWER BOOKLET COLLECTION SCHEDULE
(for All III, IV Year –I Sem, & III Year –II Sem B.Tech)**

S.NO	DATE	COLLEGE CODES	Officer concerned for issue of stationary and allotment of observers
1	02-02-2022	7, 8, 24, 25, 26, 27, 28, 32, 37, 60, 64, 65, 68, 84, 86, 87, 91, 92, 95, 1R, 5R, 5X, 6C,6D, 6E, 6J, 6K, 6L, 6P, 6R, 6T, 6U, 6X, 6Y, 7A, 7G, AN, B7, B9, BD, BR, C2, C3, C4,C5, C6, C8, D9, E3, E6, EK, HD, J0, J1, J4, J9, K4, K7, K8, K9, L5, M6, N0, N6, N9,P8, PP, Q9, QD, QK, QP, QT, R0, R2, R4, R7, RC, RH, RJ, RT, S4, S5, TD, TF, TJ, TK,TM, TR, U3, U5, U8, UC, UD, UE, UK, UM, UN, UU, W0, W7, W9,WH, X6	ACE-2 (Dr.M.Nagaratna)
2	03-02-2022	14, 21, 29, 36, 40, 56, 57, 58, 59, 62, 63, 66, 79, 80 ,82, 83, 89, 93, 94, 5A, 5C,5G, 5J, 5Q, 5T, 5Y, 5Z, 6B, 6N, 6W, 7D, 7E, 7N, 7P, 7U, 7W, 8B, AU, B3, B4, B5, BH, C1, C7,D0, D1, D3, D7, DN, E0, E4, E5, E7, FG, G7, J3, J6, J7, K0, L0, M5, M8, N2, N5, QE,QG, QN, QU, RE, RF, RM, RN, RQ, RR,SS, TA,TE, TH, TN, TT, TU, U2, U7, UA, UF,UG,UH,UQ,UT,WJ,WK,WL,X8	ACE-3 (Dr. A. Aruna Kumari)
3	03-02-2022	30, 31, 61, 67, 88, 5D, 5E, 5F, 5U, 5W, 6A, 6F,6H, 6M, 6Q, 6Z, 7B, 7C, 7F, 7Q, 7T ,7R, 7Y, 7Z, 8A ,8P, 8Q, 8R, 8U, 8W, 8X, 8Y, 9A, 9B, 9C, 9G, 9J, 9K, 9L, 9M, 9P, 9R, AG, AQ, B6, B8, BA, BE, BK, BT, C0, C9, D2, D4, D5, D6, D8, E1, E2, GE, GM, H1,H2, H3, H5, H6, H8, J2, J5, J8, JJ, K3, L7, M1, M2, M3, M4, M9, N1, N3, N4, N7, N8,P0, P6, P7, PQ, PR, PT, PU, Q6, Q8, QA, QC, QF, QH, QJ, QM, QQ, QR, R1, R3, R5,R9, RA, RD, RG, RK, RP , RU, S1, S3, T8, TC, TG, TP, TQ, U0, U1, U6, UJ, UP, UR,VD, VE, VF, VG, W1, W4, W8, X0, X3, X7	ACE-4 (Dr. A. Aruna Kumari)

Amount to be retained by colleges

Year & Semester	Regular (Rs.)	Supplementary (Irrespective of No. of subjects) (Rs.)
III & IV Year-I Sem	$250 - 30^* + 10^{**} = 230$	$125 - 18^* + 10^{**} = 117$
III Year-II Sem	-----	$125 - 18^* + 10^{**} = 117$

* Logistic postal service, ** Hall Ticket charges *** **Remuneration for Host center should be calculated as per Lr.DE/JNTUH/EB/Remuneration/Change of center/2012dt:26-06-12**

Condonation fee to be collected

III and IV Year I Semester Condonation Fee for each student	Rs 300 /-
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4. The Principals are requested to verify the eligibility of the candidates for registrations of the examinations in respect of whether the candidate has undergone regular study of previous years / semesters and obtained required number of credits for promotion as per existing academic regulations. Only eligible candidates should be allowed to register for University exams. Any deviation will be viewed seriously.

5. In the case of regular students attending class-work, the students have to pay the examination fee for regular exams of III, IV Year I Semester only when the attendance requirement is satisfied by considering presumptive attendance for one week. However, the examination registrations should be completed as per time schedule mentioned in this notification. If any student is detained due to shortage of attendance, but paid the examination fee, arrange to refund the regular examination fee before transfer of Consolidated fees to University.

6. JNTUH through Proceeding No. JNTUH/EB/11148/2/2018 Dated.20-01-2018 have extended certain benefits to Physically Handicapped students (deaf, dumb, hearing impaired, orthopedically handicapped and visually handicapped) such as exemption from payment of examination fee and pass marks. The principals may submit the certificate of permanent disability in the year of admissions and it holds good for entire duration of the course. The colleges need not submit proof of disability for every series of exams (Only in case of permanent disability).

7. Upload the faculty details for each of the registered subject of the regular series using the appropriate menu service, for the purpose of appointing them for spot valuation duty or as Examiners / Resource persons for various confidential works, it is mandatory. If the faculty member is already registered as a valuer, the valuer ID must also be entered. If any faculty member services cannot be extended for spot valuator duty, appropriate service may be used to mention the same

8. The University exam branch shall issue the faculty specific orders for spot valuation duty. In addition another letter to principal of the parent college will be sent informing the faculty members selected for spot valuation duty. The colleges should depute the faculty for spot valuation duty without fail and treat their absence as on-duty. It will be counted as present in University BAS.

9. All the Principals are requested to take proper care in uploading and sending the hard copy of Internal Marks for all regular students, who are promoted in that semester irrespective of their registration / non-registration for University examinations.

10. The Lab external marks in each lab examination have to be uploaded using the respective registration portals. After the successful upload and freeze, the examiners and the Principal have to put their signature on the print out of the system generated PDF report. These reports are to be sent on the first day of University exams along with the consolidated internal marks hard copy reports .

11. The Principals are hereby informed, by direction, if award lists of the Lab Examinations and hard copy of consolidated internal marks are not received by the University examination branch on or before the scheduled date, absent will be shown in the results and no correction will be entertained later

12. The request for the Challenge Valuation shall only be considered for those who applied for re-valuation in the specific subject.

13. If any student applied for RC/RV and if the results are not declared by the time of start of registrations for exams., the candidates are advised to register as per the time schedule given in the notification even for the subjects in which they have failed and waiting for RC/RV results. However, if the candidate passes the examination in RC/RV results, the Principals are requested to take necessary steps to refund examination fee paid by the students for the subjects in which he/she passed and transfer the consolidated fees excluding the above amount.

14. Do not carry out any correction in the subjects registered after the registration deadline. Even for the candidates who pass in RC/RV, deletion should not be done. All such cases will attract the late fee which is prevailing on that date of correction. The registrations of such students who passed in RC / RV will be deleted by the exam branch before the generation of DD report. If revaluation/ challenge valuation result are declared after the generation of DD report, that amount will be shown as credit and adjusted in the next series of examinations. All the requests for other types of corrections are to be made separately by the Principals on their letterheads to DE.

15. While collecting the stationary of University exams the envelope of all the returned marks memos (due to RC/RV or name correction) should be submitted at the counters

16. Any deletion request after approval of examination registration attracts a fine of Rs.100/- per student per semester.

17. If any subject correction is received after the closure of the registrations, all such corrections will attract a penalty of Rs.100/- per subject, per student. Hence the Principals are requested to thoroughly verify before carrying out the registrations.

18. Upload of information about the usage of blank booklets is mandatory. Other-wise it may lead to non-declaration of result. The Part-1 cut-slips of such used blank answer booklets (generally such cut-slips in any college shall be a single digit number) are to be sent in separate pre-printed envelopes which shall be issued to each college along with the stationary.

19. On the last day of regular series exams one sealed envelope and on the last day of supply series exams the second sealed envelope consisting Part-1 cut slips of used blank booklets should be sent along with last exam answer scripts (through postal van). On top of the envelope "used blank booklets part- I cut slips" should be written in bold letters.

20. If any college uses blank answer booklet, unless the student details are furnished, the D-form cannot be generated. Appropriate changes in the software will be incorporated to ensure this rule. Hence all the Principals are informed to keep the cut slips of blank used answer booklets ready before generating the pdf report of D-Form of that session(day) exams.

21. D-Form for each session should be uploaded within one hour after completion of examination duly incorporating malpractice / court cases. If any college fails to upload the D-Forms, the EDEP question papers of the following day shall not be kept in their respective Principal accounts. Principals are requested to take necessary care during upload of D-form. Any failure in upload due to technical problems must be brought to the notice of ACE(Online) (Mobile No. : 9704033577, 9989980170.)

22. Whenever a pre-printed answer booklets is found stitched with two OMRs, following decision is to be taken

S.No	Issue	Decision
1	The students of both the OMR sheets are present for the exams	The booklet should be given to the candidate whose particulars are printed on top OMR. The bottom OMR should be torn at perforations, retaining the top OMR
2	If one of the two students are present and the other student is absent	Tear off the OMR sheet of absent student at perforations and issue the booklet to the student who is present

23. Answer scripts of the Malpractice cases are to be kept in a separate sealed cover and are to be sent on the same day ACE (Academic & Legal), Examination Branch, JNTUH, Kukatpally, Hyderabad-500085 and such cases are to be reported as Malpractice Cases in D-form. However the exam answer scripts of the students which belong to 'Court case' category are to be included in the main answer booklets bundles of the same section and addressed to the concerned ACEs. On the sealed envelope of malpractice booklets" malpractice case answer booklets" should be written with Red -Ink Pen.

24. Unused blank booklets and booklets of absent students should be retained in the host college only. However the parent colleges are informed to take a copy of the present & absent statements (D-forms) from the host colleges.

25. The blank answer booklets should not be exchanged among the colleges. The Univ. exam branch maintains the record of range of answer booklets given to each college, if exchange happens anywhere, it will be treated as malpractice and serious action will be taken on both the issued college and used colleges.

26. Notifications for the students are enclosed along with this letter. The Principals are requested to display the same in the students notice board.

27. A service is added for knowing all the backlog subjects of the subjects of the students which are not registered. This service will be enabled only on 07-01-2022

(Contd.7)

28. If there are any discrepancies like the question is incomplete in the question paper or a question is out of syllabus, all such discrepancies should be submitted to Director of Evaluation within 3 days of that examination. Otherwise such requests will not be entertained.

29. Part-1 cut slips of answer booklets are to be torn - off at the host centre for all the used answer scripts. Similar to the counting of used answer booklets, the part-1 cut slips are also to be counted. Both the counts must be matched. If any college neglects to remove Part-1 cut slip of any answer script, the matter will be viewed very seriously and a penalty of Rs 1000/- per each un-cut Part-1 slip will be levied and a memo will be issued.

30. Instructions to Chief superintendents, Instructions to Invigilators and Instructions to Observers which were communicated on 28-08-2018 shall be scrupulously followed.

31. One observer will be nominated to each host-centre, typically for a duration of one week period. On the last day of each spell of observer's duty following needs to be submitted i) the observer diary of all days of the current spell and observer remuneration bill in a sealed cover and ii) part-I cut slips of blank answer booklets are to be submitted to postal – van along with the exam answer booklets of the students.

32. The Registrations should be done through JNTUH Exam Registration Portals only.

33. The helpline number for JNTUH Exam Registration Portals is 9704033577, 9989980170. Any problems in registration should be sent to: support.registrations@jntuh.ac.in

34. The Cooperation of the Principals is highly solicited for smooth processing and early declaration of examination results.

35. Following services are available in the student service portal with URL <https://student.services.jntuh.ac.in/oss>

- a) Old semester exam question papers (UG, PG & Pre- PhD)
- b) Syllabus of pervious years
- c) Convocation notification and other services.

The principals are informed to encourage students to visit this portal frequently for student services

DATE: 24-12 -2021.

Copy To :

CE, All ACEs , All B.Tech. Constituent and Affiliated Colleges
(through portal), AR (Exams), SDC Section, Concerned Seat Clerk

Yours sincerely

Sd/-
DIRECTOR OF EVALUATION



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Kukatpally, Hyderabad - 500 085

NOTIFICATION FOR B.TECH III, IV YEAR I SEM REGULAR/SUPPLY & III YEAR II SEM SUPPLY EXAMINATIONS FEBRUARY-2022

FOR

B.TECH - III YEAR - I SEMESTER REGULAR/ SUPPLEMENTARY EXAMINATIONS (R18) REGULATIONS

[For R18 –2018,2019 REGULAR ADMITTED BATCHES AND 2019,2020 LATERAL ENTRY ADMITTED BATCHES ONLY]

B.TECH - III YEAR - I SEMESTER SUPPLEMENTARY EXAMINATIONS (R16) REGULATIONS

[For R16 – 2016, 2017 REGULAR ADMITTED BATCHES AND 2017, 2018 LATERAL ENTRY ADMITTED BATCHES ONLY]

B.TECH - III YEAR - I SEMESTER SUPPLEMENTARY EXAMINATIONS (R15/R13/R09) REGULATIONS.

*[For R15-2015 REGULAR ADMITTED BATCHES AND 2016 LATERAL ENTRY ADMITTED BATCHES ONLY AND
For R13-2013,2014 REGULAR ADMITTED BATCHES AND 2014 ,2015 LATERAL ENTRY ADMITTED BATCHES ONLY AND
R09-2012 REGULAR ADMITTED BATCHES ONLY]*

B.TECH - IV YEAR - I SEMESTER REGULAR EXAMINATIONS (R18) REGULATIONS

[For R18 –2018 REGULAR ADMITTED BATCHES AND 2019 LATERAL ENTRY ADMITTED BATCHES ONLY]

B.TECH - IV YEAR - I SEMESTER SUPPLEMENTARY EXAMINATIONS (R16) REGULATIONS

[For R16 – 2016,2017 REGULAR ADMITTED BATCHES AND 2017,2018 LATERAL ENTRY ADMITTED BATCHES ONLY]

B.TECH - IV YEAR - I SEMESTER SUPPLEMENTARY EXAMINATIONS (R15/R13/R09) REGULATIONS.

*[For R15 – 2015 REGULAR ADMITTED BATCHES AND 2016 LATERAL ENTRY ADMITTED BATCHES ONLY AND
For R13-2013, 2014 REGULAR ADMITTED BATCHES AND 2014, 2015 LATERAL ENTRY ADMITTED BATCHES ONLY AND
R09-2012 REGULAR ADMITTED BATCHES ONLY]*

B.TECH - III YEAR - II SEMESTER SUPPLEMENTARY EXAMINATIONS (R18/R16/R15/R13/R09) REGULATIONS.

*[For R18 –2018 REGULAR ADMITTED BATCHES AND 2019 LATERAL ENTRY ADMITTED BATCHES ONLY]
[For R16 – 2016, 2017 REGULAR ADMITTED BATCHES AND 2017,2018 LATERAL ENTRY ADMITTED BATCHES ONLY AND
For R15 – 2015 REGULAR ADMITTED BATCHES AND 2016 LATERAL ENTRY ADMITTED BATCHES ONLY AND
For R13-2013, 2014 REGULAR ADMITTED BATCHES AND 2014 ,2015 LATERAL ENTRY ADMITTED BATCHES ONLY AND
R09-2012 REGULAR ADMITTED BATCHES ONLY]*

Note:- The question paper will be in regular pattern i.e, as mentioned in the respective academic regulations.

The students appearing for the above examinations commencing from **09-02-2022** are to note that the on-line registration for University examinations will be carried out as per the time schedule given below:

EXAM REGISTRATION	START DATE	END DATE
Without Late Fee	29-12-2021	10-01-2022
With Late Fee Of Rs.100 /-	11-01-2022	18-01-2022
With Late Fee Of Rs.1000 /-	19-01-2022	27-01-2022
With Late Fee Of Rs.2000 /-	28-01-2022	31-01-2022
With Late Fee Of Rs.5000 /-	01-02-2022	07-02-2022
With Late Fee Of Rs.10000 /- * This late fee application should be manually submitted along with demand draft.	08-02-2022	Till end of the exams

EXAMINATION FEE FOR III & IV YEAR I SEM REGULAR/SUPPLY AND III YEAR II SEM SUPPLY :

FOR WHOLE EXAMINATION (ALL SUBJECTS)	Rs.760/-
FOR ONE SUBJECT (THEORY/PRACTICAL)	Rs.360/-
FOR TWO SUBJECTS (THEORY/PRACTICAL/BOTH)	Rs.460/-
FOR THREE SUBJECTS (THEORY/PRACTICAL/BOTH)	Rs.560/-
FOR FOUR SUBJECTS & ABOVE (THEORY/PRACTICAL/BOTH)	Rs.760/-

Note :

i) The students have to contact the Principal for online registration of Examinations (both Regular & Supply) for the forthcoming University Exams. The exam registrations have to be directly carried out by logging in to University registrations server from the respective colleges.

ii) **JNTUH through Proceeding No. JNTUH/EB/11148/2/2018 Dated.20-01-2018 have extended certain benefits to Physically Handicapped students (deaf, dumb, hearing impaired, orthopedically handicapped and visually handicapped) such as exemption from payment of examination fee and pass marks. The principals may submit the certificate of permanent disability in the year of admissions and it holds good for entire duration of the course. The colleges need not submit proof of disability for every series of exams (Only in case of permanent disability).**

iii) For the students applied for RC/RV, if the results are not declared by the time of start of registrations for exams, the students are advised to register as per the time schedule given in this notification even for the subjects in which they have failed and waiting for RC/RV results. However, if the student passes the examination in RC/RV results, the examination fee paid for passed subjects will be refunded by the concerned Principals and the registrations of the student in that subject will be automatically deleted.

iv) Hall tickets are to be issued by the Principal only to the eligible candidates who fulfill the academic requirements of the University. The students are informed to note that mere payment of examination fee does not guarantee eligibility for appearing for examination.

v) **Following services are available in the student service portal with URL <https://student services.jntuh.ac.in/oss>**

- a) **Old semester exam question papers (UG, PG & Pre- PhD)**
- b) **Syllabus of pervious years**
- c) **Convocation notification and other services.**

Date: 24-12-2021.

Sd/-
DIRECTOR OF EVALUATION

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

M.PHARM. I YEAR -II SEMESTER -R19 REGULATION-REGULAR/SUPPLEMENTARY EXAMINATIONS OCTOBER-2021

T I M E T A B L E

T I M E: 09:45 AM TO 12:45 PM

COURSE	18-10-2021 Monday	21-10-2021 Thursday	23-10-2021 Saturday	26-10-2021 Tuesday	28-10-2021 Thursday	30-10-2021 Saturday	02-11-2021 Tuesday	05-11-2021 Friday
PHARMACOLOGY-01	E-IV	E-III Pharmacoepidemiology and Pharmacoeconomics	Core		E-III	Core	E-III	E-IV
	Nutraceuticals		Pharmacological Screening Methods and Toxicology		Advanced Drug Delivery Systems	Advanced Pharmacology- II	Quality Use of Medicines	Pharmaceutical Management
	Pharmacokinetic and therapeutic drug monitoring							
PHARMACEUTICAL CHEMISTRY-02	E-IV		CORE		CORE	E-III	E-III	
	Screening Methods in Pharmacology		Advanced Medicinal Chemistry II		Advanced Organic Chemistry -II	Pharmaceutical Process Chemistry	Clinical Research and Pharmacovigilance	
	Advanced Instrumental Analysis					Quality Control and Quality Assurance		
	Herbal Drug Technology							
PHARMACEUTICS-03	E-IV		E-III		CORE	CORE	E-IV	E-III
	Nano Based Drug Delivery Systems		Industrial Pharmacy		Advanced Drug Delivery Systems	Modern Pharmaceutics-II	Clinical Research And Pharmacovigilance	Pharmaceutical Management
	Nutraceuticals		Herbal Cosmetics					

DATE: 01/10/2021

**Sd/-
CONTROLLER OF EXAMINATIONS**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

E X A M I N A T I O N B R A N C H

M.PHARM. I YEAR -II SEMESTER -R19 REGULATION-REGULAR/SUPPLEMENTARY EXAMINATIONS OCTOBER-2021

T I M E T A B L E

T I M E: 09:45 AM TO 12:45 PM

COURSE	18-10-2021 Monday	21-10-2021 Thursday	23-10-2021 Saturday	26-10-2021 Tuesday	28-10-2021 Thursday	30-10-2021 Saturday	02-11-2021 Tuesday	05-11-2021 Friday
INDUSTRIAL PHARMACY-08	E-III	CORE	E-III		CORE		E-IV	
	Nano Based Drug Delivery Systems	Pharmaceutical Production Technology	Pharmaceutical Industry Management		Advanced Drug Delivery Systems		Clinical Research And Pharmacovigilance	
	Nutraceuticals			Quality by Design of Dosage Forms				
				Total Quality Management				
PHARMACEUTICAL TECHNOLOGY -09	E-IV		E-III		CORE	CORE	E-IV	E-III
	Nano Based Drug Delivery Systems		Industrial Pharmacy		Advanced Drug Delivery Systems	Modern Pharmaceutics-II	Clinical Research And Pharmacovigilance	Pharmaceutica l Management
	Nutraceuticals	Herbal Cosmetics						

DATE: 01/10/2021

**Sd/-
CONTROLLER OF EXAMINATIONS**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

E X A M I N A T I O N B R A N C H

M.PHARM. I YEAR -II SEMESTER -R19 REGULATION-REGULAR/SUPPLEMENTARY EXAMINATIONS OCTOBER-2021

T I M E T A B L E

T I M E: 09:45 AM TO 12:45 PM

COURSE	18-10-2021 Monday	21-10-2021 Thursday	23-10-2021 Saturday	26-10-2021 Tuesday	28-10-2021 Thursday	30-10-2021 Saturday	02-11-2021 Tuesday	05-11-2021 Friday
PHARMACEUTICAL ANALYSIS -12	E-IV	E-III	E-III	Core	E-IV	Core	E-IV	
	Nutraceuticals	Pharmaceutical Validation Pharmacoepidemiology and Pharmacoeconomics	Herbal Cosmetics	Advanced Instrumental Analysis-I	Advanced Instrumental Analysis - II	Modern Bio analytical Techniques	Clinical Research and Pharmacovigilance	
PHARMACEUTICAL REGULATORY AFFAIRS -13	E-III Nano Based Drug Delivery Systems	Core Regulatory aspects of medical devices	E-III Regulatory aspects of foods and nutraceuticals	E-III Biostatistics And Research Methodology	E-IV Advanced Drug Delivery Systems	E-IV Nutraceuticals	E-IV Clinical Research and Pharmacovigilance	Core Regulatory aspects of herbals and biologicals

DATE: 01/10/2021

Sd/-

CONTROLLER OF EXAMINATIONS

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-HYDERABAD-500085

EXAMINATION BRANCH

M.PHARM. I YEAR -II SEMESTER -R19 REGULATION-REGULAR/SUPPLEMENTARY EXAMINATIONS OCTOBER-2021

TIME TABLE

TIME: 09:45 AM TO 12:45 PM

COURSE	18-10-2021 Monday	21-10-2021 Thursday	23-10-2021 Saturday	26-10-2021 Tuesday	28-10-2021 Thursday	30-10-2021 Saturday	02-11-2021 Tuesday	05-11-2021 Friday
PHARMACEUTICAL QUALITY ASSURANCE -14	E-III Screening Methods in Pharmacology	Core Pharmaceuti cal Validation	E-III Hazards and safety management	E-IV Herbal Drug Technology	E-IV Audits and regulatory compliance	Core Pharmaceutica I manufacturing technology		E-IV Stability of Drugs and Dosage Forms
	Spectral Analysis							
PHARMACY PRACTICE-15		Core Pharmacoth erapeutics-II	E-IV Principles of Drug Discovery		E-III Biopharmaceutics and Pharmacokinetics	E-IV Nutraceuticals	E-III Quality use of Medicines	Core Clinical Pharmacoki netics and Drug Monitoring
			Cellular and molecular pharmacology				Clinical Research	

DATE: 01/10/2021

Sd/-
CONTROLLER OF EXAMINATIONS

NOTE:

- (i) ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY
- (ii) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES.THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL



AVANTHI

INSTITUTE OF ENGINEERING & TECHNOLOGY

ECE, CSE & EEE UG Programmes are Accredited by NBA
Approved by AICTE, Recgd by Govt. of TS and Affiliated to JNTU (H)


MINI PROJECT BATCHES 2021-22

Batch No	Roll No	MINI PROJECT TITLE	GUIDE	Internal marks	External marks	Total marks
1	18Q61A0301	AUTOMATIC WHITEBOARD CLEANER	Y RAMESH BABU	21	67	88
	19Q65A0305			22	71	93
	19Q65A0330			20	65	85
	19Q65A0336			22	71	93
2	18Q61A0307	DESIGN AND FABRICATION OF BELT GRINDER	A SHANKAR	18	60	78
	19Q65A0339			22	71	93
	19Q65A0341			21	63	84
	19Q65A0332			21	71	92
3	19Q65A0303	FABRICATION OF TENDER COCONUT CUTTING AND PUNCHING MACHINE	RV PRAHLAD	22	72	94
	19Q65A0314			20	64	84
	19Q65A0324			20	68	88
	19Q65A0340			21	69	90
4	19Q65A0322	DESIGN AND FABRICATION OF PLOUGHING AND SEED SOWING MACHINE	M VENKATESHWARLU	20	60	80
	19Q65A0342			21	69	90
	19Q65A0344			20	62	82
	19Q65A0347			20	67	87
5	19Q65A0343	DESIGN AND FABRICATION OF MANUAL MULTI SPINDLE NUT RUNNER	B SWATHI	20	63	83
	19Q65A0308			20	70	90
	19Q65A0334			18	59	77
	19Q65A0306			21	71	92
6	18Q61A0306	FABRICATION AND TESTING OF CRANK FEEDER VIABRATOR	RV PRAHLAD	21	70	91
	19Q65A0326			20	62	82
	19Q65A0346			20	63	83
	19Q65A0338			20	67	87

7	18Q61A0302	DESIGN AND FABRICATION OF AUTOMATION GARAGE DOOR OPENER	B SWATHI	22	70	92
	19Q65A0310			20	66	86
	19Q65A0350			21	70	91
	19Q65A0351			21	62	83
8	19Q65A0312	FABRICATION OF SOLAR POWER GRASS CUTTER	M VENKATESHWARLU	21	69	90
	19Q65A0352			21	68	89
	19Q65A0348			19	61	80
	19Q65A0327			20	61	81
9	19Q65A0309	FABRICATION OF AUTOMATIC DRAINAGE CLEANING MACHINE	N POOJITHA	20	67	87
	19Q65A0313			22	71	93
	19Q65A0316			22	71	93
	19Q65A0321			21	69	90
10	19Q65A0307	FABRICATION OF 90 DEGREES STEERING SYSTEM	M VENKATESHWARLU	21	68	89
	19Q65A0315			21	71	92
	18Q61A0303			20	67	87
	18Q61A0305			21	67	88
11	18Q61A0304	DESIGN AND FABRICATION OF 360° FLEXIBLE DRILLING MACHINE	A SHANKAR	22	72	94
	19Q65A0311			20	67	87
	19Q65A0318			21	71	92
	19Q65A0349			20	63	83
12	19Q65A0332	DESIGN AND FABRICATION OF MULTINUT REMOVER AND TIGHTNING TOOL.	N POOJITHA	21	71	92
	19Q65A0319			21	70	91
	19Q65A0333			20	64	84
	19Q65A0302			22	70	92
13	19Q65A0304	DESIGN AND FABRICATION OF MANUALLY OPERATED FLOOR CLEANING MACHINE	Y RAMESH BABU	22	72	94
	19Q65A0317			22	71	93
	19Q65A0320			21	64	85
	19Q65A0329			22	70	92


PROJECT TEAM


HOD


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AVANTHI INSTITUTE OF
ENGINEERING & TECHNOLOGY
Gunthapally (V), Abdullapurmet (Mdi),
R.R. Dist.



MAJOR PROJECT BATCHES 2021-22

Batch No	Roll No	MAJOR PROJECT TITLE	GUIDE	Internal marks	External marks	Total marks
1	18Q61A0301	FORK LIFT SEGWAY	Y RAMESH BABU	23	60	83
	19Q65A0305			24	62	86
	19Q65A0330			22	63	85
	19Q65A0336			24	60	84
2	18Q61A0307	DESIGN AND FRABICATION POWER GENERATION BY SPEED BRAKING SYSTEM	A SHANKAR	24	68	92
	19Q65A0339			24	68	92
	19Q65A0341			23	62	85
	19Q65A0331			23	60	83
3	19Q65A0303	DYNAMO ELECTRIC BICYCLE	RV PRAHLAD	24	60	84
	19Q65A0314			23	60	83
	19Q65A0324			23	60	83
	19Q65A0340			23	60	83
4	19Q65A0322	STEERING CONTROLLED HEADLIGHTS SYSTEM	M VENKATESHWARLU	23	60	83
	19Q65A0342			24	60	84
	19Q65A0344			21	60	81
	19Q65A0347			24	60	84
5	19Q65A0343	DESIGN AND FABRICATION OF A PROTOTYPE INDUSTRIAL ROBOTIC ARM	B SWATHI	23	64	87
	19Q65A0308			23	63	86
	19Q65A0334			22	60	82
	19Q65A0306			23	55	78
6	18Q61A0306	FABRICATION AND TESTING OF MULTI AXIS GRAB AND MAGNETIC CRANE	RV PRAHLAD	24	70	94
	19Q65A0326			23	70	93
	19Q65A0346			23	70	93
	19Q65A0338			24	70	94
7	18Q61A0302	HYBRID POWER GENERATION USING SOLAR AND WIND	B SWATHI	24	70	94
	19Q65A0310			22	70	92
	19Q65A0350			24	72	96
	19Q65A0351			23	70	93

8	19Q65A0312	FABRICATION OF SOLAR E BIKE	M VENKATESHWARLU	23	67	90
	19Q65A0352			24	67	91
	19Q65A0348			24	67	91
	19Q65A0327			21	67	88
9	19Q65A0309	INTELLIGENCE BRAKING SYSTEM BY USING ULTRASONIC SENSOR	N POOJITHA	22	68	90
	19Q65A0313			24	71	95
	19Q65A0316			24	71	95
	19Q65A0321			23	68	91
10	19Q65A0307	PEDAL OPERATED WATER PUMPING SYSTEM	M VENKATESHWARLU	24	68	92
	19Q65A0315			22	65	87
	18Q61A0303			22	68	90
	18Q61A0305			24	65	89
11	18Q61A0304	SAND SEIVING MACINE	A SHANKAR	24	60	84
	19Q65A0311			22	63	85
	19Q65A0318			22	60	82
	19Q65A0349			23	60	83
12	19Q65A0332	DESIGN AND FABRICATION OF DUAL SIDE SHAPER MACHINE	N POOJITHA	23	68	91
	19Q65A0319			24	68	92
	19Q65A0333			23	65	88
	19Q65A0302			24	65	89
13	19Q65A0304	DESIGN AND FABRICATION OF SOLAR POWERED WATER PURIFIER	Y RAMESH BABU	24	64	88
	19Q65A0317			24	64	88
	19Q65A0320			23	67	90
	19Q65A0329			22	67	89
14	17Q61A0304	INVESTIGATION AND CHARACTERIZATION ON EFFECT OF GRAPHITE IN CARBON REINFORCED LAMINATES	A SHANKAR	22	60	82
	17Q61A0320			22	60	82
	17Q61A0327			22	60	82


PROJECT TEAM


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