



# Sri Indu Institute of Engineering & Technology

Approved by AICTE, New Delhi  
Affiliated to JNTUH, Hyderabad.

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

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PRINCIPAL

Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M)  
R.R. Dist. Telangana -501 510

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**Academic Calendar 2021-22**

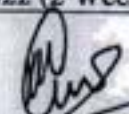
**B. TECH./B.PHARM. III & IV YEARS I & II SEMESTERS**

**I SEM**

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	<b>06.09.2021</b>	
2	1 <sup>st</sup> Spell of Instructions (including Dussehra Recess)	06.09.2021	06.11.2021 (9 Weeks)
3	Dussehra Recess	11.10.2021	16.10.2021 (1 Week)
4	First Mid Term Examinations	08.11.2021	13.11.2021 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	20.11.2021	
6	2 <sup>nd</sup> 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	25.01.2022	
10	End Semester Examinations	27.01.2022	09.02.2022

**II SEM**

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	<b>10.02.2022</b>	
2	1 <sup>st</sup> Spell of Instructions	10.02.2022	06.04.2022 (8 Weeks)
3	First Mid Term Examinations	07.04.2022	13.04.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	20.04.2022	
5	2 <sup>nd</sup> Spell of Instructions (including Summer Vacation)	16.04.2022	24.06.2022 (10 Weeks)
6	Summer Vacation	09.05.2022	21.05.2022 (2 Weeks)
7	Second Mid Term Examinations	25.06.2022	01.07.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	02.07.2022	09.07.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	09.07.2022	
10	End Semester Examinations	11.07.2022	23.07.2022 (2 Weeks)

  
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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**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	<b>18.10.2021</b>	
3	1 <sup>st</sup> 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	<b>24.12.2021</b>	
6	2 <sup>nd</sup> 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	<b>26.02.2022</b>	
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	<b>14.03.2022</b>	
2	1 <sup>st</sup> 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	<b>11.06.2022</b>	
6	2 <sup>nd</sup> 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	<b>16.08.2022</b>	
10	End Semester Examinations	17.08.2022	30.08.2022 (2 Weeks)

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**ACADEMIC CALENDAR 2021-22**

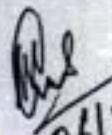
**B. TECH/B.PHARM. I YEAR I & II SEMESTERS**


**I SEM**

S. No	Description	Duration	
		From	To
1	Induction programme	09.12.2021 to 18.12.2021	
2	1 <sup>st</sup> 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 <sup>nd</sup> Spell of Instructions	21.02.2022	23.04.2022 (9 Weeks)
6	Second Mid Term 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 <sup>st</sup> 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 <sup>nd</sup> 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)

  
 06/12/21  
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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  $\geq 5$ ) 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 ( $\geq 90$  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 (EtC)	PE – Professional Electives	Includes elective subjects related to the parent discipline/ department/ branch of Engineering.
6		OE – Open Electives	Elective subjects which include inter-disciplinary subjects or subjects in an area outside the parent discipline/ department/ branch of Engineering.
7	Core Courses	Project Work	B.Tech. project or UG project or UG major project or Project Stage I & II
8		Industrial training/ Mini- project	Industrial training/ Summer Internship/ Industrial Oriented Mini-project/ Mini-project



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

#### 4.0 Course registration

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



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

- 4.8 Dropping of subjects/ courses may be permitted, only after obtaining prior approval from the faculty advisor/ counselor 'within a period of 15 days' from the beginning of the current semester.
- 4.9 **Open electives:** The students have to choose three open electives (OE-I, II & III) from the list of open electives given. However, the student cannot opt for an open elective subject offered by his own (parent) department, if it is already listed under any category of the subjects offered by parent department in any semester.
- 4.10 **Professional electives:** The students have to choose six professional electives (PE-I to VI) from the list of professional electives given.

#### 5.0 Subjects/ courses to be offered

- 5.1 A typical section (or class) strength for each semester shall be 60.
- 5.2 A subject/ course may be offered to the students, **only if** a minimum of 20 students (1/3 of the section strength) opt for it. The maximum strength of a section is limited to 80 (60 + 1/3 of the section strength).
- 5.3 More than **one faculty member** may offer the **same subject** (lab/ practical may be included with the corresponding theory subject in the same semester) in any semester. However, selection of choice for students will be based on - '**first come first serve** basis and CGPA criterion' (i.e. the first focus shall be on early **on-line entry** from the student for registration in that semester, and the second focus, if needed, will be on CGPA of the student).
- 5.4 If more entries for registration of a subject come into picture, then the Head of the Department concerned shall decide, whether or not to offer such a subject/ course for **two (or multiple) sections**.
- 5.5 In case of options coming from students of other departments/ branches/ disciplines (not considering **open electives**), first **priority** shall be given to the student of the '**parent department**'.

#### 6.0 Attendance requirements:

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

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



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

#### 7.0 Academic requirements

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

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

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



### 7.3 Promotion Rules

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



- 7.4 A student (i) shall register for all courses/subjects covering 160 credits as specified and listed in the course structure, (ii) fulfills all the attendance and academic requirements for 160 credits, (iii) earn all 160 credits by securing SGPA  $\geq 5.0$  (in each semester), and CGPA (at the end of each successive semester)  $\geq 5.0$ , (iv) **passes all the mandatory courses**, to successfully complete the under graduate programme. The performance of the student in these 160 credits shall be taken into account for the calculation of 'the final CGPA (at the end of under graduate programme)', and shall be indicated in the grade card of IV-year II semester.
- 7.5 If a student registers for 'extra subjects' (in the parent department or other departments/branches of Engg.) other than those listed subjects totaling to 160 credits as specified in the course structure of his department, the performances in those 'extra subjects' (although evaluated and graded using the same procedure as that of the required 160 credits) will not be taken into account while calculating the SGPA and CGPA. For such 'extra subjects' registered, percentage of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 – 7.4 above.
- 7.6 A student eligible to appear in the semester end examination for any subject/ course, but absent from it or failed (thereby failing to secure 'C' grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, internal marks (CIE) assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- 7.7 A student **detained in a semester due to shortage of attendance may be re-admitted in the same semester in the next academic year for fulfillment of academic requirements**. The academic regulations under which a student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which the student has been detained.
- 7.8 A student **detained due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits**. The academic regulations under which the student has been readmitted shall be applicable to him.
- 8.0 **Evaluation - Distribution and Weightage of marks**
- 8.1 The performance of a student in every subject/course (including practicals and Project Stage – I & II) will be evaluated for 100 marks each, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).
- 8.2 For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the descriptive paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for descriptive paper). The objective paper is set with 20 multiple choice, fill-in the blanks and matching type of questions for a total of 10 marks. The descriptive paper shall contain 4 full questions out of which, the student has to answer 2 questions, each



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

- 8.2.1** The semester end examinations (SEE) will be conducted for 75 marks consisting of two parts viz. i) **Part- A** for 25 marks, ii) **Part - B** for 50 marks.
- Part-A is a compulsory question consisting of ten sub-questions. The first five sub-questions are from each unit and carry 2 marks each. The next five sub-questions are one from each unit and carry 3 marks each.
  - Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an “either” “or” choice, which means that there will be two questions from each unit and the student should answer either of the two questions.
- 8.2.2** For subjects like **Engineering Graphics/Engineering Drawing**, the SEE shall consist of five questions. For each question there will be an “either” “or” choice, which means that there will be two questions from each unit and the student should answer either of the two questions. There shall be no Part – A, and Part – B system.
- 8.2.3** For subjects like **Machine Drawing Practice/Machine Drawing**, the SEE shall be conducted for 75 marks consisting of two parts viz. (i) Part – A for 30 marks. 3 out of 4 questions must be answered, (ii) Part – B for 45 marks. Part – B is compulsory.
- 8.2.4** For the Subject **Estimation, Costing and Project Management**, the SEE paper should consist of Part- A, Part-B and Part C. (i) Part – A – 1 out of 2 questions from Unit – I for 30 Marks, (ii) Part – B – 1 out of 2 questions from Unit – II for 15 Marks, (iii) Part – C – 3 out of 5 questions from Units – III, IV, V for 30 Marks.
- 8.2.5** For subjects **Structural Engineering – I & II (RCC & STEEL)**, the SEE will be conducted for 75 marks consisting of 2 parts viz. (i) Part – A for 15 marks and, (i) Part – B for 60 marks. Part – A is a compulsory question consisting of ten sub-questions. The first five sub-questions are from each unit relating to design theory and codal provisions and carry 2 marks each. The next five sub-questions are from each unit and carry 1 mark each. Part – B consists of 5 questions (numbered 2 to 6) carrying 12 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there is either or choice, which means that there will be two questions from each unit and the student should answer either of the two questions.



- 8.3 For practical subjects there shall be a continuous internal evaluation during the semester for 25 marks and 75 marks for semester end examination. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the University.
- 8.4 For the subject having design and/or drawing, (such as engineering graphics, engineering drawing, machine drawing, machine drawing practice and estimation), the distribution shall be 25 marks for continuous internal evaluation (15 marks for day-to-day work and 10 marks for internal tests) and 75 marks for semester end examination. There shall be two internal tests in a semester and the average of the two shall be considered for the award of marks for internal tests.
- 8.5 There shall be an Industrial Oriented Mini Project/Summer Internship, in collaboration with an industry of their specialization. Students will register for this immediately after III year II semester examinations and pursue it during summer vacation. Industrial Oriented Mini Project/Summer Internship shall be submitted in a report form and presented before the committee in IV year I semester. It shall be evaluated for 100 external marks. The committee consists of an external examiner, Head of the Department, supervisor of the Industrial Oriented mini project/Summer Internship and a senior faculty member of the department. There shall be no internal marks for Industrial Oriented Mini Project/Summer Internship.
- 8.6 There shall be a seminar presentation in IV year I semester. For the seminar, the student shall collect the information on a specialized topic, prepare a technical report, and submit it to the department. It shall be evaluated by the departmental committee consisting of Head of the Department, seminar supervisor and a senior faculty member. The seminar report shall be evaluated for 100 internal marks. There shall be no semester end examination for the seminar.
- 8.7 UG project work shall be carried out in two stages: Project Stage – I during IV Year I Semester, Project Stage – II during IV Year II Semester. Each stage will be evaluated for 100 marks. Student has to submit project work report at the end of each semester. First report includes project work carried out in IV Year I semester and second report includes project work carried out in IV Year I & II Semesters. SEE for both project stages shall be completed before the commencement of SEE Theory examinations.
- 8.8 For Project Stage – I, the departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall evaluate the project work for 75 marks and project supervisor shall evaluate for 25 marks. The student is deemed to have failed, if he (i) does not submit a report on Project Stage - I or does not make a presentation of the same before the evaluation committee as per schedule, or (ii) secures less than 40% marks in the sum total of the CIE and SEE taken together.



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

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

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

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

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

#### 9.0 Grading procedure

- 9.1 Grades will be awarded to indicate the performance of students in each theory subject, laboratory / practicals, seminar, Industry Oriented Mini Project, and project Stage - I & II. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.
- 9.2 As a measure of the performance of a student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
---	----------------------------------	--------------



Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A <sup>+</sup> (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B <sup>+</sup> (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 ( $\Sigma CP$ ) secured from all subjects/ courses registered in a semester, by the total number of credits registered during that semester. SGPA is rounded off to **two** decimal places. SGPA is thus computed as

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

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  $i^{\text{th}}$  subject, and  $G_i$  represents the grade points (GP) corresponding to the letter grade awarded for that  $i^{\text{th}}$  subject.

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

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

(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 1<sup>st</sup> semester onwards up to and inclusive of the 8<sup>th</sup> 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  $j^{\text{th}}$  subject, and  $G_j$  represents the grade points (GP) corresponding to the letter grade awarded for that  $j^{\text{th}}$  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	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	C	5	$4 \times 5 = 20$
Course 4	3	B	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	C	5	$3 \times 5 = 15$
	21			152

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

**Illustration of calculation of CGPA up to 3<sup>rd</sup> semester:**

Semester	Course/Subject Title	Credits Allotted	Letter Grade Secured	Corresponding Grade Point (GP)	Credit Points (CP)
I	Course 1	3	A	8	24
I	Course 2	3	O	10	30
I	Course 3	3	B	6	18
I	Course 4	4	A	8	32
I	Course 5	3	A+	9	27
I	Course 6	4	C	5	20



II	Course 7	4	B	6	24
II	Course 8	4	A	8	32
II	Course 9	3	C	5	15
II	Course 10	3	O	10	30
II	Course 11	3	B+	7	21
II	Course 12	4	B	6	24
II	Course 13	4	A	8	32
II	Course 14	3	O	10	30
III	Course 15	2	A	8	16
III	Course 16	1	C	5	5
III	Course 17	4	O	10	40
III	Course 18	3	B+	7	21
III	Course 19	4	B	6	24
III	Course 20	4	A	8	32
III	Course 21	3	B+	7	21
	<b>Total Credits</b>	<b>69</b>		<b>Total Credit Points</b>	<b>518</b>

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

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

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



## 10.0 Passing standards

- 10.1 A student shall be declared successful or 'passed' in a semester, if he secures a GP  $\geq 5$  ('C' grade or above) in every subject/course in that semester (i.e. when the student gets an SGPA  $\geq 5.00$  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  $\geq 5.00$  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  $\geq 5.0$ ), 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)  $\geq 8.00$ , 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  $\geq 8.00$ , at the end of each of the 8 sequential semesters, starting from I year I semester onwards.
  - (iii) Should not have been detained or prevented from writing the semester end examinations in any semester due to shortage of attendance or any other reason.

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

- 12.4 Students with final CGPA (at the end of the under graduate programme)  $\geq 6.50$  but  $<$



8.00 shall be placed in '**first class**'.

**12.5** Students with final CGPA (at the end of the under graduate programme)  $\geq 5.50$  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)  $\geq 5.00$  but  $< 5.50$ , shall be placed in '**pass class**'.

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

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

### **13.0 Withholding of results**

**13.1** If the student has not paid the fees to the University at any stage, or has dues pending due to any reason whatsoever, or if any case of indiscipline is pending, the result of the student may be withheld, and the student will not be allowed to go into the next higher semester. The award or issue of the degree may also be withheld in such cases.

### **14.0 Student transfers**

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

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

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

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

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

### **15.0 Scope**

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

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



- 15.3 The University may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the dates notified by the University authorities.
- 15.4 Where the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".





**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

*(Established by State Act No. 30 of 2008)*

Kukatpally, Hyderabad, Telangana (India).

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

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

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

2. The student shall register for 123 credits and secure 123 credits with CGPA  $\geq 5$  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.

\* \* \* \* \*

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD - 500085

EXAMINATION BRANCH

B.TEC H I YEAR I SEMESTER - R18 REGULATIONS I- MID TERM EXAMINATIONS FEBRUARY-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	DATE, SESSION AND DAY			
	14-02-2022 FN MONDAY	14-02-2022 AN MONDAY	15-02-2022 FN TUESDAY	15-02-2022 AN TUESDAY
<b>CIVIL ENGINEERING (01-CE)</b>	Mathematics-I ✓	Programming for Problem Solving ✓	Engineering Physics	---
<b>ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)</b>	Mathematics-I	Chemistry	Basic Electrical Engineering	English
<b>MECHANICAL ENGINEERING (03-ME)</b>	Mathematics-I ✓	Programming for Problem Solving ✓	Engineering Physics	---
<b>ELECTRONICS &amp; COMMUNICATIONS ENGINEERING (04-ECE)</b>	Mathematics-I ✓	Programming for Problem Solving ✓	Applied Physics	---

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BRANCH	DATE, SESSION AND DAY			
	14-02-2022 FN MONDAY	14-02-2022 AN MONDAY	15-02-2022 FN TUESDAY	15-02-2022 AN TUESDAY
COMPUTER SCIENCE & ENGINEERING (05- CSE)	Mathematics-I ✓	Chemistry ✓	Basic Electrical Engineering	English
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)	Mathematics-I	Programming for Problem Solving	Applied Physics	---
INFORMATION TECHNOLOGY (12- IT)	Mathematics-I	Chemistry ✓	Basic Electrical Engineering	English

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EXAMINATION BRANCH

B.TEC H I YEAR I SEMESTER – R18 REGULATIONS I - MID TERM EXAMINATIONS FEBRUARY-2022(IN OFFLINE MODE)

## TIME TABLE

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BRANCH	DATE, SESSION AND DAY			
	14-02-2022 FN MONDAY	14-02-2022 AN MONDAY	15-02-2022 FN TUESDAY	15-02-2022 AN TUESDAY
COMPUTER SCIENCE INFORMATION TECHNOLOGY CSIT(33)	Mathematics-I	Chemistry	Basic Electrical Engineering	English
INFORMATION TECHNOLOGY AND ENGINEERING (34- ITE)	Mathematics-I	Chemistry	Basic Electrical Engineering	English
COMPUTER ENGINEERING (SOFTWARE ENGINEERING) (56-CE(SE))	Mathematics-I	Chemistry	Basic Electrical Engineering	English
COMPUTER SCIENCE AND ENGINEERING) (CYBER SECURITY) (62-CSE(CS))	Mathematics-I ✓	Chemistry ✓	Basic Electrical Engineering	English

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EXAMINATION BRANCH

B.TECH I YEAR I SEMESTER - R18 REGULATIONS I - MID TERM EXAMINATIONS FEBRUARY-2022 (IN OFFLINE MODE)

## TIME TABLE

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BRANCH	DATE, SESSION AND DAY			
	14-02-2022 FN MONDAY	14-02-2022 AN MONDAY	15-02-2022 FN TUESDAY	15-02-2022 AN TUESDAY
COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) (66-CSE(AI&ML))	Mathematics-I ✓	Programming for Problem Solving ✓	Applied Physics	---
COMPUTER SCIENCE AND ENGINEERING (DATASCIENCE) (67-CSE(DS))	Mathematics-I	Chemistry	Basic Electrical Engineering	English
COMPUTER SCIENCE AND ENGINEERING (IOT) (69-CSE(IOT))	Mathematics-I ✓	Programming for Problem Solving ✓	Applied Physics	---
COMPUTER SCIENCE AND ENGINEERING (NETWORKS) (70-CSE(NETWORKS))	Mathematics-I	Chemistry	Basic Electrical Engineering	English
TEXTILE ENGINEERING (71-TTE)	Mathematics-I	Programming for Problem Solving	Engineering Physics	---

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# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD – 500085

EXAMINATION BRANCH

B.TECH I YEAR I SEMESTER – R18 REGULATIONS I - MID TERM EXAMINATIONS FEBRUARY-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	DATE, SESSION AND DAY			
	14-02-2022 FN MONDAY	14-02-2022 AN MONDAY	15-02-2022 FN TUESDAY	15-02-2022 AN TUESDAY
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (72- AIDS)	Mathematics-I ✓	Programming for Problem Solving ✓	Applied Physics	---
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (73-AI&ML)	Mathematics-I	Programming for Problem Solving	Applied Physics	---
COMPUTER SCIENCE AND DESIGN (74-CSD)	Mathematics-I	Chemistry	Basic Electrical Engineering	English
AUTOMATION AND ROBOTICS (75-AR)	Mathematics-I	Programming for Problem Solving	Engineering Physics	---

DATE: 03-02-2022

Sd/-  
CONTROLLER OF EXAMINATIONS

NOTE:

- ANY OMISSIONS OR CLASHES IN THIS TIME TABLE MAY PLEASE BE INFORMED TO THE CONTROLLER OF EXAMINATIONS IMMEDIATELY.
- EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL.
- THE PATTERN OF THE DESCRIPTIVE AND OBJECTIVE TYPE PAPERS SHALL BE IN REGULAR PATTERN AS GIVEN IN R18 REGULATION

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# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD – 500 085

EXAMINATION BRANCH

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

T I M E T A B L E

TIME → FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)  
AN: 1.40 PM TO 03.00 PM (DESCRIPTIVE EXAM: 1.40 PM TO 2.40 PM, OBJECTIVE EXAM: 2.40 PM TO 03.00 PM)

BRANCH	DATE, SESSION AND DAY					
	14-02-2022 FN MONDAY	14-02-2022 AN MONDAY	15-02-2022 FN TUESDAY	15-02-2022 AN TUESDAY	16-02-2022 FN WEDNESDAY	16-02-2022 AN WEDNESDAY
CIVIL ENGINEERING (01-CE)	Surveying and Geomatics ✓	Engineering Geology ✓	Strength of Materials - I ✓	Probability and Statistics ✓	Fluid Mechanics ✓	--
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Engineering Mechanics	Electrical Circuit Analysis	Analog Electronics	Electrical Machines - I	Electromagnetic Fields	--
MECHANICAL ENGINEERING (03-ME)	Probability and Statistics & Complex	Mechanics of Solids	Material Science and Metallurgy	Production Technology	Thermodynamics	---

DATE: 03-02-2022

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CONTINUED ON PAGE -2

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD – 500 085

EXAMINATION BRANCH

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

T I M E T A B L E

TIME → FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)  
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BRANCH	DATE, SESSION AND DAY					
	14-02-2022 FN MONDAY	14-02-2022 AN MONDAY	15-02-2022 FN TUESDAY	15-02-2022 AN TUESDAY	16-02-2022 FN WEDNESDAY	16-02-2022 AN WEDNESDAY
ELECTRONICS & COMMUNICATIONS ENGINEERING (04- ECE)	Probability Theory and Stochastic Processes ✓	Network Analysis and Transmission Lines ✓	Digital System Design ✓	Signals and Systems ✓	Electronic Devices and Circuits ✓	--
COMPUTER SCIENCE & ENGINEERING (05- CSE)	Analog and Digital Electronics ✓	Data Structures ✓	Computer Oriented Statistical Methods ✓	Object Oriented Programming using C++	Computer Organization and Architecture ✓	--
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10EIE)	Electronic Measurements	Network Theory	Transducers Engineering	Signals and Systems	Electronic Devices and Circuits	--

DATE: 03-02-2022

CONTINUED ON PAGE -3

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KUKATPALLY, HYDERABAD – 500 085

EXAMINATION BRANCH

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

TIME TABLE

TIME → FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)

AN: 1.40 PM TO 03.00 PM (DESCRIPTIVE EXAM: 1.40 PM TO 2.40 PM, OBJECTIVE EXAM: 2.40 PM TO 03.00 PM)

BRANCH	DATE, SESSION AND DAY							
	14-02-2022 FN MONDAY	14-02-2022 AN MONDAY	15-02-2022 FN TUESDAY	15-02-2022 AN TUESDAY	16-02-2022 FN WEDNESDAY	16-02-2022 AN WEDNESDAY		
COMPUTER SCIENCE INFORMATION TECHNOLOGY (CSIT(33))	Discrete Structures	Data Structures	Computational statistics	Python Programming	Computer Organization and Architecture	Business Economics & Financial Analysis		
INFORMATION TECHNOLOGY AND ENGINEERING (34- ITE)	Analog and Digital Electronics	Data Structures	Statistical Methods for Data Science	Python Programming	Computer Organization & Microcontroller	---		
COMPUTER ENGINEERING (SOFTWARE ENGINEERING) (56-CE(SE))	Analog and Digital Electronics	Data Structures	Computer Oriented Statistical Methods	Python Programming	Computer Organization and Architecture	--		
COMPUTER SCIENCE AND ENGINEERING) (CYBER SECURITY) (62-CSE(CS))	✓ Analog and Digital Electronics	✓ Data Structures	✓ Mathematical and Statistical Foundations	✓ Python Programming	✓ Computer Organization and Architecture	--		

DATE: 03-02-2022

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EXAMINATION BRANCH

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

T I M E T A B L E

TIME → FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)

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BRANCH	DATE, SESSION DAY					
	14-02-2022 FN MONDAY	14-02-2022 AN MONDAY	15-02-2022 FN TUESDAY	15-02-2022 AN TUESDAY	16-02-2022 FN WEDNESDAY	16-02-2022 AN WEDNESDAY
COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) (66-CSE(AI&ML))	Discrete Mathematics	Data Structures	Mathematical and Statistical Foundations	Python Programming	Computer Organization and Architecture	Business Economics & Financial Analysis
COMPUTER SCIENCE AND ENGINEERING (DATASCIENCE) (67-CSE(DS))	Discrete Mathematics	Data Structures	Mathematical and Statistical Foundations	Python Programming	Computer Organization and Architecture	Business Economics & Financial Analysis
COMPUTER SCIENCE AND ENGINEERING (IOT) (69-CSE(IOT))	Analog and Digital Electronics	Data Structures	Computer Oriented Statistical Methods	Python Programming	Discrete Mathematics	---
COMPUTER SCIENCE AND ENGINEERING (NETWORKS) (70-CSE(NETWORKS))	Analog and Digital Electronics	Data Structures	Computer Oriented Statistical Methods	Python Programming	Computer Organization and Architecture	----

DATE: 03-02-2022

Sd/-

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 SED. 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

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**III YEAR B.TECH – II SEMESTER– R18 REGULATION II - MID TERM EXAMINATIONS JULY-2022-(IN OFFLINE MODE)****TIMETABLE**

TIME → FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)

AN: 1.40 PM TO 03.00 PM (DESCRIPTIVE EXAM: 1.40 PM TO 2.40 PM, OBJECTIVE EXAM: 2.40 PM TO 03.00 PM)

BRANCH	11-07-2022 FN MONDAY	11-07-2022 AN MONDAY	12-07-2022 FN TUESDAY	12-07-2022 AN TUESDAY	16-07-2022 FN SATURDAY	16-07-2022 AN SATURDAY
CIVIL ENGINEERING (01-CE)	Hydrology & Water Resources Engineering	Environmental Engineering	Foundation Engineering	E2	Structural Engineering II(Steel)	(OE1)
				Prestressed Concrete		Entrepreneurship
				Elements of Earth Quake Engineering		Fundamentals of Management for Engineers
				Advanced Structural Analysis		Cyber Law & Ethics
						Basics of Sensors Technology
						Fundamentals of Internet of Things
						Reliability Engineering
						Renewable Energy Sources
						Quantitative Analysis for Business Decisions
						Industrial Management
						Non-Conventional Energy Sources
						General Geology
						Testing of Materials
						Alloy Steels
						Introduction to Mining Technology
						Coal Gasification, CBM & Shale Gas

01-07-2022

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**EXAMINATION BRANCH**  
**III YEAR B.TECH - II SEMESTER- R18 REGULATION II - MID TERM EXAMINATIONS JULY-2022-(IN OFFLINE MODE)**  
**T I M E T A B L E**

TIME → FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)  
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BRANCH	11-07-2022 FN MONDAY	11-07-2022 AN MONDAY	12-07-2022 FN TUESDAY	12-07-2022 AN TUESDAY	16-07-2022 FN SATURDAY	16-07-2022 AN SATURDAY
MECHANICAL ENGINEERING (03-ME)	Design of Machine Members-II	CAD & CAM	Heat Transfer	E1	Finite Element Methods	(OE1)
				Unconventional Machining Processes		Disaster Preparedness & Planning Management
				Machine Tool Design		Entrepreneurship
				Production Planning & Control		Fundamentals of Management for Engineers
						Cyber Law & Ethics
						Basics of Sensors Technology
						Fundamentals of Internet of Things
						Reliability Engineering
						Renewable Energy Sources
						Industrial Management
						Non-Conventional Energy Sources
						General Geology
						Testing of Materials
						Alloy Steels
						Introduction to Mining Technology
						Coal Gasification, CBM & Shale Gas

Date: 01-07-2022

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY - HYDERABAD**  
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**EXAMINATION BRANCH**  
**III YEAR B.TECH - II SEMESTER- R18 REGULATION II - MID TERM EXAMINATIONS JULY-2022-(IN OFFLINE MODE)**  
**TIME TABLE**

**CONTROLLER OF EXAMINATIONS**

TIME → FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)  
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BRANCH	11-07-2022 FN MONDAY	11-07-2022 AN MONDAY	12-07-2022 FN TUESDAY	12-07-2022 AN TUESDAY	16-07-2022 FN SATURDAY	16-07-2022 AN SATURDAY	
ELECTRONICS AND COMMUNICATION ENGINEERING  (04-ECE)	Antennas and Propagation	Digital Signal Processing	E2	E2	VLSI Design	(OE1)	
			 Object Oriented Programming through Java	Embedded System Design		Disaster Preparedness & Planning Management	
				Mobile Communications and Networks		Entrepreneurship	
						Fundamentals of Management for Engineers	
						Cyber Law & Ethics	
						Basics of Sensors Technology	
						Reliability Engineering	
						Renewable Energy Sources	
						Quantitative Analysis for Business Decisions	
						Industrial Management	
						Non-Conventional Energy Sources	
						General Geology	
						Testing of Materials	
						Alloy Steels	
						Introduction to Mining Technology	
						Coal Gasification, CBM & Shale Gas	

01-07-2022

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EXAMINATION BRANCH

**III YEAR B.TECH – II SEMESTER– R18 REGULATION II - MID TERM EXAMINATIONS JULY-2022-(IN OFFLINE MODE)****TIMETABLE**

TIME → FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)  
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BRANCH	11-07-2022 FN MONDAY	11-07-2022 AN MONDAY	12-07-2022 FN TUESDAY	12-07-2022 AN TUESDAY	16-07-2022 FN SATURDAY	16-07-2022 AN SATURDAY
COMPUTER SCIENCE AND ENGINEERING  (05-CSE)	Machine Learning	Compiler Design	Design and Analysis of Algorithms	E3	-	(OE1)
				Concurrent Programming		Disaster Preparedness & Planning Management
						Basics of Sensors Technology
						Fundamentals of Internet of Things
				Network Programming		Reliability Engineering
						Renewable Energy Sources
						Quantitative Analysis for Business Decisions
				Scripting Languages		Industrial Management
						Non-Conventional Energy Sources
						General Geology
				Mobile Application Development		Testing of Materials
						Alloy Steels
						Software Testing Methodologies
				Coal Gasification, CBM & Shale Gas		

Date: 01-07-2022



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# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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EXAMINATION BRANCH

**IV YEAR B.TECH - II SEMESTER- R18 REGULATION II - MID TERM EXAMINATIONS JULY-2022-(IN OFFLINE MODE)**

**TIMETABLE**

TIME → FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)

AN: 1.40 PM TO 03.00 PM (DESCRIPTIVE EXAM: 1.40 PM TO 2.40 PM, OBJECTIVE EXAM: 2.40 PM TO 03.00 PM)

BRANCH	04-07-2022 FN MONDAY	04-07-2022 AN MONDAY	05-07-2022 FN TUESDAY
CIVIL ENGINEERING (01-CE)	E5 Solid Waste Management	E6	OE3
			Basics of Power Plant Engineering
			Basics of Virtual Instrumentation
	Environmental Impact Assessment	Airports, Railways and Waterways	Database Management Systems
			Elements of Rocket Propulsion
	Air pollution	Urban Transportation Planning	Energy Sources and Applications
			Fundamentals of Robotics
			Green Fuel Technologies
			High Temperature Materials
			Light Metals and Alloys
			Linear and Non-Linear Optimization Techniques
			Mobile Application Development
			Machine Learning
			Measuring Instruments
		Finite Element Methods for Civil Engineering	Non-Conventional Sources of energy
			Remote Sensing and GIS in Mining
			Total Quality Management ✓
			Solid Fuel Technology
			Scripting Languages

Date:23-06-2022

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# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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EXAMINATION BRANCH

## IV YEAR B.TECH - II SEMESTER- R18 REGULATION II - MID TERM EXAMINATIONS JULY-2022-(IN OFFLINE MODE) TIMETABLE

TIME → FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)  
AN: 1.40 PM TO 03.00 PM (DESCRIPTIVE EXAM: 1.40 PM TO 2.40 PM, OBJECTIVE EXAM: 2.40 PM TO 03.00 PM)

BRANCH	04-07-2022 FN MONDAY	04-07-2022 AN MONDAY	05-07-2022 FN TUESDAY
MECHANICAL ENGINEERING (03-ME)	E5	E6	OE3
	Industrial Robotics	Industrial Management	Basics of Power Plant Engineering
	Composite Materials		Basics of Virtual Instrumentation
			Environmental Impact Assessment
			Database Management Systems
	Mechanical Vibrations	Tribology	Elements of Rocket Propulsion
		Production and Operations Management	Energy Sources and Applications
			Fundamentals of Robotics
			Green Fuel Technologies
			High Temperature Materials
			Light Metals and Alloys
			Linear and Non-Linear Optimization Techniques

Date: 23-06-2022

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EXAMINATION BRANCH

**IV YEAR B.TECH - II SEMESTER- R18 REGULATION II - MID TERM EXAMINATIONS JULY-2022-(IN OFFLINE MODE)**


## TIMETABLE


TIME → FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)

AN: 1.40 PM TO 03.00 PM (DESCRIPTIVE EXAM: 1.40 PM TO 2.40 PM, OBJECTIVE EXAM: 2.40 PM TO 03.00 PM)

BRANCH	04-07-2022 FN MONDAY	04-07-2022 AN MONDAY	05-07-2022 FN TUESDAY
ELECTRONICS AND COMMUNICATION ENGINEERING (04-ECE)	E5	E6	OE3
			Basics of Power Plant Engineering
			Database Management Systems
	Satellite Communications ✓	System on Chip Architecture	Elements of Rocket Propulsion
			Energy Sources and Applications
			Environmental Impact Assessment
	Radar Systems	Test and Testability	Fundamentals of Robotics
			Green Fuel Technologies
			High Temperature Materials
	Wireless Sensor Networks	Low Power VLSI Design ✓	Light Metals and Alloys
			Linear and Non-Linear Optimization Techniques
			Mobile Application Development
			Machine Learning
			Non-Conventional Sources of energy
			Basics of Virtual Instrumentation
			Remote Sensing and GIS in Mining
			Total Quality Management
			Solid Fuel Technology
			Scripting Languages

Date: 23-06-2022

  
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EXAMINATION BRANCH

## IV YEAR B.TECH - II SEMESTER- R18 REGULATION II - MID TERM EXAMINATIONS JULY-2022-(IN OFFLINE MODE) TIMETABLE

TIME → FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)  
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BRANCH	04-07-2022 FN MONDAY	04-07-2022 AN MONDAY	05-07-2022 FN TUESDAY
COMPUTER SCIENCE AND ENGINEERING  (05-CSE)	✓ Organizational Behaviour	E6	OE3
		Computational Complexity	Basics of Power Plant Engineering
		Distributed Systems	Elements of Rocket Propulsion
		Neural Networks & Deep Learning	Energy Sources and Applications
		Cyber Forensics	Environmental Impact Assessment
		Human Computer Interaction	Fundamentals of Robotics
			Green Fuel Technologies
			High Temperature Materials
			Light Metals and Alloys
			Measuring Instruments
			Non-Conventional Sources of energy
			Remote Sensing and GIS in Mining
			Total Quality Management
			Solid Fuel Technology
			Basics of Virtual Instrumentation
			Linear and Non-Linear Optimization Techniques

Date: 23-06-2022

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# Sri Indu Institute of Engineering & Technology

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I - Mid Examinations, MAY -2022

Year & Branch: II -ECE-A, B& C

Subject: Electromagnetic Fields & Waves (EMFW)

Date: 31/05/22(AN)

Max. Marks: 10

Time: 60mins

Set -II

Answer any TWO Questions. All Question Carry Equal Marks

2\*5=10 marks

1. A Line charge density  $\rho_L$  is uniformly Distributed over a length of  $2a$  with the centre as origin along X-axis, Find E at a point P which is on the Z-axis at a distance of "d"?  
[C222.1][Application]
2. Define Relaxation time ( $\tau_r$ ), Derive the formula for it? [C222.1][Knowledge, Application]
3. State the BIOT SAVARTS law, Derive the Magnetic field intensity equation from it? [C222.2]  
[Knowledge, Application]
4. Explain Lorentz force equation & Derive force equation for Ampere's force law? [C222.2]  
[Comprehension]

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# Sri Indu Institute of Engineering & Technology

Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510

II - Mid Examinations, AUG -2022

Year & Branch: II -ECE-A, B & C

Subject: Electromagnetic Fields & Waves (EMFW)

Date: 10/08/22(AN)

Max. Marks: 10

Time: 60mins

Set -I

Answer any TWO Questions. All Questions Carry Equal Marks

2\*5=10 marks

1. Write Maxwell equations in both point form and Integral form?

[ C222.3][ Knowledge]

2. Explain modified Ampere's law for Time-varying fields?

[ C222.3][Comprehension]

3. Derive the Relationship between E & H in a Lossless medium?

[C222.4] [Application]

4. Derive the field component for TM waves in Rectangular Waveguides?

[ C222.5][Application]

# Sri Indu Institute of Engineering & Technology

Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510

II - Mid Examinations, AUG-2022

Year & Branch: II -ECE-A, B & C

Subject: Electromagnetic Fields & Waves (EMFW)

Date: 10/08/22(AN)

Max. Marks: 10

Time: 60mins

Set -I

Answer any TWO Questions. All Questions Carry Equal Marks

2\*5=10 marks

5. Write Maxwell equations in both point form and Integral form?

[ C222.3][ Knowledge]

6. Explain modified Ampere's law for Time-varying fields?

[ C222.3][Comprehension]

7. Derive the Relationship between E & H in a Lossless medium?

[C222.4] [Application]

8. Derive the field component for TM waves in Rectangular Waveguides?

[ C222.5][Application]

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R.R. Dist. Telangana -501 510



# Sri Indu Institute of Engineering & Technology

Sheriguda (V), Ibrahimpatnam (M), R.R. Dist-501510

B-Tech II - Mid Examinations, AUG -2022

## Objective Type Exam

Year & Branch: II -ECE-A, B & C

Date: 10-08-2022(AN)

Subject: EMF and W

Max. Marks: 10

Time: 20 mins

Name: .....

Roll No.....

Choose the correct answers.

- 1 What are the kinds of Induced EMF'S [ ]  
a) Transformer Emf b) Motional Emf c) Total Induced Emf  
d) All of the Above
- 2 Relation between Conduction current density & Displacement current Density is [ ]  
a)  $J_c/J_d = \sigma / j\omega\epsilon$  b)  $J_c/J_d = \sigma E / j\omega\epsilon$  c)  $J_c/J_d = \sigma / j\omega^2\epsilon$   
d)  $J_c/J_d = \sigma H / j\omega\epsilon$
- 3 The propagation constant is [ ]  
a)  $\alpha - j\beta$  b)  $\alpha + j\beta$  c)  $\beta - j\alpha$  d) 0
- 4 The phase shift in the electric and magnetic fields in an EM wave is given by which parameter? [ ]  
a) phase constant b) attenuation constant  
c) propagation constant d) intrinsic impedance
- 5 Dominant mode of rectangular wave guide in TM wave is [ ]  
a) TE<sub>11</sub> b) TM<sub>01</sub> c) TM<sub>10</sub> d) TM<sub>11</sub>
- 6 The normal Component of Electric Flux density at Boundary is [ ]  
a) 0 b) 1 c)  $\rho_s$  d)  $\omega/\epsilon$
- 7 The Poynting vector is the power component that is calculated by the [ ]  
a) Product of E and H b) Ratio of E and H  
c) Dot product of E and H d) Cross product of E and H
- 8 Waveguide is a \_\_\_\_\_ metallic Tube. [ ]  
a) Rectangular b) Hollow c) circular d) none of these
- 9 Cutoff wavelength for TM<sub>01</sub> wave is [ ]  
a) 2a b) 4 c) 0 d) 2b
- 10 C band Range is [ ]  
a) 1 - 2 GHz b) 2 - 4 GHz c) 4 - 8 GHz d) 8 - 12 GHz

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Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana - 501 510

<https://sriet.ac.in/>

DEPARTMENT: ECE

SUB: Electromagnetic Fields & Waves (EMFW)

YEAR: II year II SEM(A, B & C) Sec

## \*\*\*\*\* UNIT 1 ASSIGNMENT QUESTIONS \*\*\*\*\*

1. Point charges  $5\text{nc}$  and  $-2\text{nc}$  are located at  $(2, 0, 4)$ ,  $(-3, 0, 5)$  respectively?
  - a. Determine Force on a  $1\text{nc}$  point charge located at  $(1, -3, \text{and } 7)$
  - b. Find the Electric field intensity at  $(1, -3, \text{and } 7)$ . [C222.1][Evaluation]
2. A Line charge density  $\rho_L$  is uniformly distributed over a length of  $2a$  with the centre as origin along X-axis, Find  $E$  at a point P which is on the Z-axis at a distance of " $d$ "?  
[C222.1][Evaluation]
3. a. Derive the Relationship between  $E$  &  $V$ ? [C222.1][Analysis]  
b. Given the potential  $v=10/r^2 \sin\theta \cos\phi$ , Find the Electric Flux density at  $(2, \pi/2, 0)$
4. Define Relaxation time ( $\tau_r$ ), Derive the formula for it? [C222.1][Knowledge]
5. Write in detail about Conventional and Conduction current density? [C222.1][create]
6. Derive Capacitance of a Parallel plate capacitor? [C222.1][Analysis]

## \*\*\*\*\* UNIT 2 ASSIGNMENT QUESTIONS \*\*\*\*\*

1. Define Magneto statics, Magnetic field, Magnetic field Intensity and Magnetic Flux density with relevant Diagrams? [C222.2][Knowledge]
2. State the BIOT SAVARTS law, Derive the Magnetic field intensity equation from it? [C222.1][Knowledge]
3. Explain Magnetic Scalar and vector potentials? [C222.2][Understand]
4. A steady current of  $1000\text{A}$  is established in a long Straight hollow aluminium conductor of an inner radius of  $1\text{cm}$ , and an outer radius of  $2\text{cm}$ , Assuming uniform resistivity, calculate  $B$  as a function of radius  $r$  from the axis of Conductor? [C222.2][Analysis]
5. Explain Lorentz force equation & Derive force equation for Ampere's force law? [C222.1][Comprehension]
6. Derive magnetic Field Intensity Due to Co-Axial cable? [C222.2][Analysis]

Principal  
Sri Indu Institute of Engineering & Tech.  
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R.R. Dist. Telangana -501 510

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R.R. Dist. Telangana -501 510



# Sri Indu Institute of Engineering & Technology

Sheriguda (V), Ibrahimpatnam (M), R.R. Dist-501 510  
B-Tech I - Mid Examinations, MAY -2022

## Objective Type Exam

Year & Branch: II - ECE-A, B & C

Subject: EMF and W

Max. Marks: 10

Date: 31-05-2022(AN)  
Time: 20 mins

Name: ..... Roll No: .....

Choose the correct answers.

- 1 The Electric field intensity is a quantity [ ]  
(a) scalar (b) vector (c) both a & b (d) none of the above
- 2 Electric Field intensity at any point in an electric field is equal to the at that point. [ ]  
(a) electric flux (b) magnetic flux density  
(c) potential gradient (d) none of the above
- 3 When 4 volts e.m.f is applied across a 1 farad capacitor, it will store energy of [ ]  
(a) 2 joules (b) 4 joules (c) 6 joules (d) 8 joules
- 4 The units of volume charge density are [ ]  
(a) Coulomb/meter (b) Coulomb/metre<sup>2</sup>  
(c) Coulomb/metre<sup>3</sup> (d) Coulomb
- 5 Divergence of a curl of vector is [ ]  
a) 1 b) 0 c) 2 d) 4
- 6 The Right Hand Thumb Rule gives [ ]  
a) Direction of Magnetic Field Intensity  
b) Direction of Electric Field Intensity  
c) Magnetic Force  
d) Electric Force
- 7 One of the following Cannot Produce Magnetic fields [ ]  
a) Permanent Magnets  
b) Direct Currents

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**Website : <https://siiet.ac.in/>**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**A.Y 2021-2022**

**DIGITAL SIGNAL PROCESSING LAB INTERNAL QUESTIONS**

1. write a MATLAB program for Generation of Sinusoidal Waveform / Signal based on Recursive Difference Equations? **10M C326.2 (Analysis)**
2. write a MATLAB program for To find DFT / IDFT of given DT Signal **10M C326.1 (Knowledge)**
3. write a MATLAB program for To find Frequency Response of a given System given in Transfer Function/ Differential equation form.. **10M C326.5 (Application)**
4. write a MATLAB program for Implementation of FFT of given Sequence **10M C326.5 (Application)**
5. write a MATLAB program for Determination of Power Spectrum of a given Signal(s). **10M C326.1 (Knowledge)**
6. write a MATLAB program for Implementation of LP FIR Filter for a given Sequence/Signal. **10M C326.4 (comprehension)**

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**A.Y 2021-2022**

**DIGITAL SIGNAL PROCESSING LAB INTERNAL QUESTIONS**

- |   |   |     |                        |
|---|---|-----|------------------------|
| 1 | write a MATLAB program for Implementation of HP FIR Filter for a given Sequence/Signal. | 10M | C326.4 (comprehension) |
| 2 | write a MATLAB program for Generation of DTMF Signals                                   | 10M | C326.3 (Synthesis)     |
| 3 | write a MATLAB program for Implementation of Decimation Process                         | 10M | C326.3 (Synthesis)     |
| 4 | write a MATLAB program for Implementation of Interpolation Process                      | 10M | C326.3 (Synthesis)     |
| 5 | write a MATLAB program for Implementation of I/D Sampling Rate Converters               | 10M | C326.6 (Evaluation)    |
| 6 | write a MATLAB program for Impulse Response of First order and Second Order Systems.    | 10M | C326.6 (Evaluation)    |

  
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[Formerly RVR Institute of Engineering & Technology]

Sheriguda (V), Ibrahimpatnam (M), R. R. District, T.S - 501510.

Phone : Office : 9640590999, 9347187999, 8096951507

Dr. I. Satyanarayana  
M.Tech(IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
Principal

Dated: 15-11-2021

To, Komula sirivally

B.TECH (ECE)

19X31A0469

Dear Parent /Guardian,

I, the principal of this Institution wishes to inform you the details of attendance and progress of your ward who has been admitted in III B.Tech I Sem during this academic year 2021-22.

The class work has been regular and serious since the beginning and we are providing our best and dedicated services to the student community. Most of the students are also working to the best of their abilities.

The attendance and performance of your ward is given below. As per JNTU academic regulation on attendance a student has to put in minimum of 75% attendance. Otherwise he / she will be DETAINED in End Examinations and has to repeat the III B.Tech I Sem class work to fulfill the academic regulation on attendance. You are requested to advice him / her accordingly for the improvement and fulfillment of University Norms. Feel free to contact Concern HOD / PRINCIPAL.

Subject	Attendance as on 08-11-2021 Number of classes		I - Mid Term Examinations
	Held	Attended	Max. Marks 25
micro processors & micro controller	42	33	14
data communication & Network	34	26	25
Control systems	40	32	19
Business Economics & Financial Analy	38	34	23
Electronic measurements & Instrument-	38	33	17
micro processor & controller lab	24	24	22
data communication & Networks lab	27	27	24
Advanced communication skills lab	24	21	23

His / Her attendance is 86.14 % and is Poor / Average / Good / Excellent.

His / Her Performance in internal tests is 83.5 % Poor / Average / Good / Excellent.

**NOTE :** If your son / Daughter did not secured 75% Attendance, by the end of the semester He / She is not permitted to write JNTU Examination.

HOD  
ECE

PRINCIPAL

PRINCIPAL  
Sri Indu Institute of Engineering & T.  
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Dr. I. Satyanarayana  
M.Tech(IIT-KGP), Ph.D., FIE., MISTE., MISHMT.  
Principal

Dated: 06-06-2022

To, Bevini Sindhuja

B.TECH (ECE)

20X31A0417

Dear Parent /Guardian,

I, the principal of this Institution wishes to inform you the details of attendance and progress of your ward who has been admitted in II B.Tech II Sem during this academic year 2021-22.

The class work has been regular and serious since the beginning and we are providing our best and dedicated services to the student community. Most of the students are also working to the best of their abilities.

The attendance and performance of your ward is given below. As per JNTU academic regulation on attendance a student has to put in minimum of 75% attendance. Otherwise he / she will be DETAINED in End Examinations and has to repeat the II B.Tech II Sem class work to fulfill the academic regulation on attendance. You are requested to advice him / her accordingly for the improvement and fulfillment of University Norms. Feel free to contact Concern HOD / PRINCIPAL.

Subject	Attendance as on 28-05-2022 Number of classes		I - Mid Term Examinations
	Held	Attended	Max. Marks 25
Laplace Transform Numerical methods	33	30	21
Electro magnetic Fields & waves	38	31	21
Analog & Digital Communications	29	25	22
Linear IC Applications	31	25	22
Electronic Circuit Analysis	28	21	23
Analog & Digital Communications lab	21	21	22
Linear & Digital IC lab	24	24	24
Electronic Circuit Analysis lab	12	12	25

His / Her attendance is 87.5 % and is Poor / Average / Good / Excellent.

His / Her Performance in internal tests is 90 % Poor / Average / Good / Excellent.

**NOTE :** If your son / Daughter did not secured 75% Attendance, by the end of the semester He / She is not permitted to write JNTU Examination.

HOD  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**MAJOR PROJECT REVIEW-1**

Academic Year : 2021-22

Year : IV

Sem : II

Branch : ECE

Section : A

S.NO	Hall ticket NO	Name Of the Student	Project Title	Dress Code (5M)	Present ation (05M)	Project (05M)	Viva (10M)	Total (25M)
1	18X31A0401	A SHYAM KUMAR REDDY	Design and implementation of agriculture pesticide spraying drone	5	5	5	8	23
2	18X31A0402	A SWADESH	Web-server based home appliances controlling system through iot	5	5	5	7	22
3	18X31A0405	AILA SAVITHA	Design and modelling of smart rc plane	5	5	4	7	21
4	18X31A0406	AITIPAMULA RAVI KUMAR	Design and implementation of agriculture pesticide spraying drone	4	4	5	7	20
5	18X31A0407	ALE KEERTHI	Vehicle pollution&safety monitoring system using iot	5	5	5	8	23
6	18X31A0408	ANNU DEVI VARDHAN REDDY	Design and implementation of smart contac less switch for home	4	5	5	9	23

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7	18X31A0409	BAIROJU NALINI PRABATH	Design and modelling of smart rc plane	5	5	5	8	23
8	18X31A0410	BATTINA MOHANA NAIDU	Vehicle pollution&safety monitoring system using iot	5	5	5	8	23
9	18X31A0411	BEESUKUNTLA VARUNTEJ GOUD	Design and implementation of agriculture pesticide spraying drone	5	5	5	9	24
10	18X31A0412	BODDUPALLY LAYA	Iot based smart garbage monitoring system	5	4	5	8	22
11	18X31A0414	BOYA DHARANEESH KUMAR NAIDU	Design and implementation of smart contac less switch for home	4	5	5	8	22
12	18X31A0415	BURRA POOJA	Iot based watwr level monitoring & dam gate controlling system	5	4	5	8	22
13	18X31A0416	CH MANISH RAJ	Design and modelling of smart rc plane	4	5	5	9	23
14	18X31A0417	CHAKRAPANI HARSHITHA	Vehicle pollution&safety monitoring system using iot	5	4	5	6	20
15	18X31A0418	CHANDA VAMSHI	Web-server based home appliances controlling system through iot	4	5	5	6	20
16	18X31A0419	CHATLAPARTHY SWATHI	Smart voice controlled wheel chair using bluetooth technology	5	5	5	8	23
17	18X31A0420	CHEKOORI MANIDEEP REDDY	Smart raspberry pi & node mcu based e- aggriculture system	4	4	5	9	22
18	18X31A0421	CHININGI SREEDHAR	Iot based watwr level monitoring & dam gate controlling system	5	5	5	5	20
19	18X31A0422	CHINTHAPALLY SHIVAKESHA REDDY	Design and implementation of smart contac less switch for home	5	5	5	7	22

20	18X31A0423	CHIRRA HARIKA	Deep learning based fake credit card identification system	5	5	5	8	23
21	18X31A0424	CHITHALOORI USHA	Smart voice controlled wheel chair using bluetooth technology	5	5	5	8	23
22	18X31A0425	CHITTOJU MEGHANADH	Deep learning based fake credit card identification system	5	5	5	7	22
23	18X31A0426	CHOKKAREDDY ARAVIND REDDY	Smart voice controlled wheel chair using bluetooth technology	4	5	5	7	21
24	18X31A0427	DANDA SRAVIKA REDDY	Smart raspberry pi & node mcu based e-aggriculture system	5	5	5	5	20
25	18X31A0429	DASOJU GAYATHRI	Iot based watwr level monitoring & dam gate controlling system	5	5	5	5	20
26	18X31A0430	DEVSOTH GIREESH RATOD	Smart raspberry pi & node mcu based e-aggriculture system	5	5	5	6	21
27	18X31A0432	DOULATABAD SUSHMA	Deep learning based fake credit card identification system	5	5	5	5	20
28	18X31A0433	DUDIPALA KARTHIK REDDY	Design and calibration of smart agriculture pesticides spraying drone	5	5	5	7	22
29	18X31A0434	DUDUKU PRAVALLIKA	Design and calibration of smart agriculture pesticides spraying drone	5	5	5	5	20
30	18X31A0435	ETIKALA NAVYA	Design and implementation of iot system of aerophonic chamber temperature monitoring system	5	5	5	6	21
31	18X31A0436	ETUKURI NAVEEN	Smart voice assitance industrial automation	4	5	5	7	21
32	18X31A0437	G SHIVA SAI	Design and modelling of smart rc plane	5	5	5	6	21
33	18X31A0438	GADDAM DEVENDHAR	Design and implementation of smart contac less switch for home	5	5	5	6	21



34	18X31A0439	GADDAM JAYANTH REDDY	Web-server based home appliances controlling system through iot	5	5	5	5	20
35	18X31A0440	GADDAM SANDHYA	Smart raspberry pi & node mcu based e-aggriculture system	5	5	5	5	20
36	18X31A0442	GARLAPATI POOJITHA	Design and calibration of smart agriculture pesticides spraying drone	5	5	5	5	20
37	18X31A0443	GODUGU VIVEK RAJ	Design and implementation of iot system of aerophonic chamber temperature monitoring system	4	5	5	7	21
38	18X31A0444	GOKA BALA VIKAS	Smart voice controlled wheel chair using bluetooth technology	5	5	5	6	21
39	18X31A0446	GUBBA BHAVANA	Low power high performance pmos based switching system	5	5	5	9	24
40	18X31A0447	GUDEDAVUNI VARUN GOUD	Design and calibration of smart agriculture pesticides spraying drone	5	5	5	6	21
41	18X31A0448	GUJJA PAVANI	Implementation of contactless notice board using bluetooth	5	5	5	5	20
42	18X31A0449	GUNDA PRADEEP REDDY	Design and implementation of agriculture pesticide spraying drone	5	5	5	5	20
43	18X31A0450	GUNDAGONI GOPI	Vehicle pollution&safety monitoring system using iot	4	5	5	7	21
44	18X31A0453	JAKKULA PANDU	Web-server based home appliances controlling system through iot	5	5	5	6	21
45	18X31A0455	JATOVATH MADHU	Iot based smart garbage monitoring system	5	5	5	6	21
46	18X31A0456	JAVAJI MOUNIKA	Iot based smart garbage monitoring system	5	5	5	8	23
47	18X31A0457	JAYINI SAI CHARITHA	Implementation of contactless notice board using bluetooth	5	5	5	9	24
48	18X31A0458	JELLA HARISH	Implementation of contactless notice board using bluetooth	4	5	5	6	20
49	18X31A0459	JIGURU KRISHNA	Design and implementation of iot system of aerophonic chamber temperature	5	5	5	5	20

		LIKHITH	monitoring system					
50	18X31A0460	K NIHARIKA	Smart voice assistance industrial automation	5	5	5	5	20
51	19X35A0401	ANGOTHU VAMSHI	Smart voice assistance industrial automation	5	5	5	6	21
52	19X35A0402	BATHULA GIRIDHAR	Design and implementation of iot system of aerophonic chamber temperature monitoring system	4	5	5	7	21
53	19X35A0403	DAMARLA NIROSHA	Smart voice assistance industrial automation	5	5	5	6	21
54	19X35A0404	ELKA ARAVIND SAI	Implementation of contactless notice board using bluetooth	5	5	5	5	20
55	19X35A0405	PRANEETH	Low power high performance pmos based switching system	4	5	5	6	20
56	19X35A0406	ESLAVATH NAVEEN	Iot based water level monitoring & dam gate controlling system	5	5	5	5	20
57	19X35A0407	GAVVALA LINGAM	Iot based smart garbage monitoring system	4	5	5	7	21
58	19X35A0408	GINUKUNTALA MEGHANA	Low power high performance pmos based switching system	5	5	5	7	22
59	19X35A0409	GONE PRANEESH	Deep learning based fake credit card identification system	5	5	5	8	23
60	19X35A0410	GURIJALA NAGARAJU	Low power high performance pmos based switching system	5	5	5	7	22

  
Panel Member -1

  
Panel Member -2

  
Project Co-Ordinator

  
HOD

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**MAJOR PROJECT REVIEW-II**

Academic Year : 2021-22

Year : IV

Sem : II

Branch : ECE

Section : A

S.NO	Hall ticket NO	Name Of the Student	Project Title	Dress Code (5M)	Present ation (05M)	Project (05M)	Viva (10M)	Total (25M)
1	18X31A0401	A SHYAM KUMAR REDDY	Design and implementation of agriculture pesticide spraying drone	5	5	4	9	23
2	18X31A0402	A SWADESH	Web-server based home appliances controlling system through iot	4	5	5	8	22
3	18X31A0405	AILA SAVITHA	Design and modelling of smart rc plane	5	5	3	8	21
4	18X31A0406	AITIPAMULA RAVI KUMAR	Design and implementation of agriculture pesticide spraying drone	5	4	4	7	20
5	18X31A0407	ALE KEERTHI	Vehicle pollution&safety monitoring system using iot	5	4	5	9	23
6	18X31A0408	ANNU DEVI	Design and implementation of smart contac less switch for home	4	5	4	10	23

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Ranga Reddy Dist., Telangana - 501 510

7	18X31A0409	BAIROJU NALINI PRABATH	Design and modelling of smart rc plane	5	5	4	9	23
8	18X31A0410	BATTINA MOHANA NAIDU	Vehicle pollution&safety monitoring system using iot	5	4	5	9	23
9	18X31A0411	BEESUKUNTLA VARUNTEJ GOUD	Design and implementation of agriculture pesticide spraying drone	4	5	5	10	24
10	18X31A0412	BODDUPALLY LAYA	Iot based smart garbage monitoring system	5	5	5	7	22
11	18X31A0414	BOYA DHARANEESH KUMAR NAIDU	Design and implementation of smart contac less switch for home	5	5	3	9	22
12	18X31A0415	BURRA POOJA	Iot based watwr level monitoring & dam gate controlling system	5	4	4	9	22
13	18X31A0416	CH MANISH RAJ	Design and modelling of smart rc plane	5	4	4	10	23
14	18X31A0417	CHAKRAPANI HARSHITHA	Vehicle pollution&safety monitoring system using iot	4	4	5	7	20
15	18X31A0418	CHANDA VAMSHI	Web-server based home appliances controlling system through iot	5	4	3	8	20
16	18X31A0419	CHATLAPARTHY SWATHI	Smart voice controlled wheel chair using bluetooth technology	5	4	5	9	23
17	18X31A0420	CHEKOORI MANIDEEP REDDY	Smart raspberry pi & node mcu based e-aggriculture system	5	4	5	8	22
18	18X31A0421	CHININGI SREEDHAR	Iot based watwr level monitoring & dam gate controlling system	5	5	4	6	20
19	18X31A0422	CHINTHAPALLY SHIVAKESHA REDDY	Design and implementation of smart contac less switch for home	5	5	4	8	22



20	18X31A0423	CHIRRA HARIKA	Deep learning based fake credit card identification system	5	4	5	9	23
21	18X31A0424	CHITHALOORI USHA	Smart voice controlled wheel chair using bluetooth technology	4	5	5	9	23
22	18X31A0425	CHITTOJU MEGHANADH	Deep learning based fake credit card identification system	5	4	4	9	22
23	18X31A0426	CHOKKAREDDY ARAVIND REDDY	Smart voice controlled wheel chair using bluetooth technology	5	4	4	8	21
24	18X31A0427	DANDA SRAVIKA REDDY	Smart raspberry pi & node mcu based e-aggriculture system	4	5	5	6	20
25	18X31A0429	DASOJU GAYATHRI	Iot based watwr level monitoring & dam gate controlling system	5	4	4	7	20
26	18X31A0430	DEVSOOTH GIREESH RATOD	Smart raspberry pi & node mcu based e-aggriculture system	5	4	4	8	21
27	18X31A0432	DOULATABAD SUSHMA	Deep learning based fake credit card identification system	4	5	5	6	20
28	18X31A0433	DUDIPALA KARTHIK REDDY	Design and calibration of smart agriculture pesticides spraying drone	5	4	4	9	22
29	18X31A0434	DUDUKU PRAVALLIKA	Design and calibration of smart agriculture pesticides spraying drone	4	4	5	7	20
30	18X31A0435	ETIKALA NAVYA	Design and implementation of iot system of aerophonic chamber temperature monitoring system	5	4	5	7	21
31	18X31A0436	ETUKURI NAVEEN	Smart voice assitance industrial automation	4	5	4	8	21
32	18X31A0437	G SHIVA SAI	Design and modelling of smart rc plane	5	4	4	8	21
33	18X31A0438	GADDAM DEVENDHAR	Design and implementation of smart contac less switch for home	5	4	5	7	21

		LIKHITH	monitoring system					
50	18X31A0460	K NIHARIKA	Smart voice assistance industrial automation	5	4	5	6	20
51	19X35A0401	ANGOTHU VAMSHI	Smart voice assistance industrial automation	5	5	4	7	21
52	19X35A0402	BATHULA GIRIDHAR	Design and implementation of iot system of aerophonic chamber temperature monitoring system	5	4	4	8	21
53	19X35A0403	DAMARLA NIROSHA	Smart voice assistance industrial automation	5	4	5	7	21
54	19X35A0404	ELKA ARAVIND SAI	Implementation of contactless notice board using bluetooth	5	4	5	6	20
55	19X35A0405	PRANEETH	Low power high performance pmos based switching system	4	5	4	7	20
56	19X35A0406	ESLAVATH NAVEEN	Iot based water level monitoring & dam gate controlling system	5	5	4	6	20
57	19X35A0407	GAVVALA LINGAM	Iot based smart garbage monitoring system	5	4	5	7	21
58	19X35A0408	GINUKUNTALA MEGHANA	Low power high performance pmos based switching system	5	5	4	8	22
59	19X35A0409	GONE PRANEESH	Deep learning based fake credit card identification system	5	4	5	9	23
60	19X35A0410	GURIJALA NAGARAJU	Low power high performance pmos based switching system	5	5	4	8	22

  
Panel Member -1

  
Panel Member -2

  
Project Co-Ordinator

  
HOD

  
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Website : <https://siiet.ac.in/>

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### MINI-PROJECT EVALUATION

Academic Year: 2021-22

Year: IV

Sem: II

Branch: ECE

Section: A

S.No	Hall ticket No	Name Of the Student	REVIEW-I				REVIEW-II				AVERAGE
			Knowledge (45M)	Presentation (45M)	Viva (10M)	Total (A)	Knowledge (45M)	Presentation (45M)	Viva (10M)	Total (B)	Average(A+B)/2
1	18X31A0401	A SHYAM KUMAR REDDY	40	40	5	85	40	40	05	85	85
2	18X31A0402	A SWADESH	44	43	7	94	42	45	07	94	94

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3	18X31A0405	AILA SAVITHA	40	39	03	82	39	39	04	82	82
4	18X31A0406	AITIPAMULA RAVI KUMAR	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-1
5	18X31A0407	ALE KEERTHI	45	45	02	92	44	44	04	92	92
6	18X31A0408	ANNU DEVI VARDHAN REDDY	40	35	05	80	40	36	04	80	80
7	18X31A0409	BAIROJU NALINI PRABATH	45	40	04	89	42	43	04	89	89
8	18X31A0410	BATTINA MOHANA NAIDU	45	43	06	94	44	44	06	94	94
9	18X31A0411	BESUKUNTALA VARUNTEJ GOUD	40	40	02	82	40	40	02	82	82
10	18X31A0412	BODDUPALLY LAYA	44	40	04	88	44	40	04	88	88
11	18X31A0414	BOYA DHARANEESH KUMAR NAIDU	40	40	02	82	40	40	02	82	82
12	18X31A0415	BURRA POOJA	45	46	03	94	45	44	05	94	94
13	18X31A0416	CH MANISH RAJ	45	45	04	94	45	45	04	94	94
14	18X31A0417	CHAKRAPANI HARSHITHA	42	42	03	87	41	43	03	87	87
15	18X31A0418	CHANDA VAMSHI	40	40	7	87	42	42	03	87	87
16	18X31A0419	CHATLAPARTHY SWATHI	45	45	05	95	45	45	05	95	95
17	18X31A0420	CHEKOORI MANIDEEP	44	40	04	88	44	40	4	88	88



		REDDY									
18	18X31A0421	CHININGI SREEDHAR	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-1
19	18X31A0422	CHINTHAPALLY SHIVAKESHA REDDY	40	40	02	82	40	40	02	82	82
20	18X31A0423	CHIRRA HARIKA	40	45	04	89	42	43	04	89	89
21	18X31A0424	CHITHALOORI USHA	45	40	04	89	43	42	04	89	89
22	18X31A0425	CHITTOJU MEGHANADH	40	40	02	82	40	40	02	82	82
23	18X31A0426	CHOKKAREDDY ARAVIND REDDY	40	40	02	82	40	40	02	82	82
24	18X31A0427	DANDA SRAVIKA REDDY	45	40	05	90	42	43	05	90	90
25	18X31A0429	DASOJU GAYATHRI	40	40	2	82	40	40	02	82	82
26	18X31A0430	DEVSOTH GIREESH RATOD	40	40	2	82	40	40	02	82	82
27	18X31A0432	DOULATABAD SUSHMA	40	40	06	86	40	40	6	86	86
28	18X31A0433	DUDIPALA KARTHIK REDDY	40	40	06	86	40	40	6	86	86
29	18X31A0434	DUDUKU PRAVALLIKA	40	45	04	89	45	41	03	89	89
30	18X31A0435	ETIKALA NAVYA	40	40	02	82	40	40	2	82	82
31	18X31A0436	ETUKURI NAVEEN	40	40	06	86	40	40	6	86	86
32	18X31A0437	G SHIVA SAI	40	45	05	90	42	43	05	90	90
33	18X31A0438	GADDAM DEVENDHAR	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-1

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34	18X31A0439	GADDAM JAYANTH REDDY	42	42	02	86	42	40	04	86	86
35	18X31A0440	GADDAM SANDHYA	42	42	05	89	42	42	05	89	89
36	18X31A0442	GARLAPATI POOJITHA	40	40	04	84	40	40	4	84	84
37	18X31A0443	GODUGU VIVEK RAJ	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-1
38	18X31A0444	GOKA BALA VIKAS	45	40	01	86	44	40	02	86	86
39	18X31A0446	GUBBA BHAVANA	45	45	05	95	46	46	05	97	96
40	18X31A0447	GUDEDAVUNI VARUN GOUD	40	40	02	82	40	40	02	82	82
41	18X31A0448	GUJJA PAVANI	42	40	02	84	40	42	02	84	84
42	18X31A0449	GUNDA PRADEEP REDDY	43	40	03	86	43	40	03	86	86
43	18X31A0450	GUNDAGONI GOPI	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-1
44	18X31A0453	JAKKULA PANDU	43	40	03	86	42	41	03	86	86
45	18X31A0455	JATOVATH MADHU	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-1
46	18X31A0456	JAVAJI MOUNIKA	45	45	05	95	45	45	05	95	95
47	18X31A0457	JAYINI SAI CHARITHA	45	45	06	96	45	46	05	96	96
48	18X31A0458	JELLA HARISH	40	40	02	82	40	40	02	82	82
49	18X31A0459	JIGURU KRISHNA LIKHITH	40	40	2	82	40	40	2	82	82
50	18X31A0460	K NIHARIKA	42	42	02	86	42	40	04	86	86
51	19X35A0401	ANGOTHU VAMSHI	40	40	04	84	40	40	04	84	84



52	19X35A0402	BATHULA GIRIDHAR	40	40	02	82	40	40	02	82	82
53	19X35A0403	DAMARLA NIROSHA	44	40	04	88	42	42	04	88	88
54	19X35A0404	ELKA ARAVIND SAI	40	40	02	82	42	40	00	82	82
55	19X35A0405	PRANEETH	42	42	03	87	42	42	03	87	87
56	19X35A0406	ESLAVATH NAVEEN	45	40	04	89	42	40	07	89	89
57	19X35A0407	GAVVALA LINGAM	40	40	04	84	40	40	04	84	84
58	19X35A0408	GINUKUNTLA MEGHANA	40	40	06	86	40	40	06	86	86
59	19X35A0409	GONE PRANEESH	40	40	04	84	40	40	04	84	84
60	19X35A0410	GURIJALA NAGARAJU	45	43	01	89	44	40	05	89	89

  
Panel Member -1

  
Panel Member -2

  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**SEMINAR EVALUATION**

Academic Year : 2021-22

Year : IV

Sem : II

Branch : ECE

Section : A

S.No	Hall ticket NO	Name Of the Student	Topic, Content and Work (20M)	Knowledge& Participation (20M)	Presentation (30M)	Dress Code (10M)	Viva (20M)	Total (100M)
1	18X31A0401	A SHYAM KUMAR REDDY	20	16	21	9	15	81
2	18X31A0402	A SWADESH	20	18	25	10	17	90
3	18X31A0405	AILA SAVITHA	20	16	20	9	15	80
4	18X31A0406	AITIPAMULA RAVI KUMAR	20	15	15	10	10	70
5	18X31A0407	ALE KEERTHI	20	20	26	10	16	92
6	18X31A0408	ANNU DEVI VARDHAN REDDY	20	15	20	10	15	80

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7	18X31A0409	BAIROJU NALINI PRABATH	20	16	23	10	14	83
8	18X31A0410	BATTINA MOHANA NAIDU	20	20	24	10	18	92
9	18X31A0411	BEESUKUNTLA VARUNTEJ GOUD	20	15	20	10	15	80
10	18X31A0412	BODDUPALLY LAYA	20	16	21	9	15	81
11	18X31A0414	BOYA DHARANEESH KUMAR NAIDU	20	16	20	10	15	81
12	18X31A0415	BURRA POOJA	20	17	20	10	15	82
13	18X31A0416	CH MANISH RAJ	20	20	27	10	18	95
14	18X31A0417	CHAKRAPANI HARSHITHA	20	15	20	10	15	80
15	18X31A0418	CHANDA VAMSHI	20	15	20	10	15	80
16	18X31A0419	CHATLAPARTHY SWATHI	20	20	27	10	16	93
17	18X31A0420	CHEKOORI MANIDEEP REDDY	20	20	22	10	16	88
18	18X31A0421	CHININGI SREEDHAR	20	15	15	10	10	70
19	18X31A0422	CHINTHAPALLY SHIVAKESHAVA REDDY	20	17	20	10	15	82
20	18X31A0423	CHIRRA HARIKA	20	17	20	10	16	83
21	18X31A0424	CHITHALoori USHA	20	20	19	10	16	85
22	18X31A0425	CHITTOJU MEGHANADH	20	19	19	10	16	84
23	18X31A0426	CHOKKAREDDY ARAVIND REDDY	20	15	19	10	15	79

24	18X31A0427	DANDA SRAVIKA REDDY	20	20	20	5	15	80
25	18X31A0429	DASOJU GAYATHRI	20	18	22	8	14	82
26	18X31A0430	DEVSOTH GIREESH RATOD	20	19	23	7	10	79
27	18X31A0432	DOULATABAD SUSHMA	20	17	21	10	13	81
28	18X31A0433	DUDIPALA KARTHIK REDDY	20	18	21	10	13	82
29	18X31A0434	DUDUKU PRAVALLIKA	20	17	18	10	15	80
30	18X31A0435	ETIKALA NAVYA	20	19	18	10	17	84
31	18X31A0436	ETUKURI NAVEEN	20	14	22	8	18	82
32	18X31A0437	G SHIVA SAI	20	16	25	9	15	85
33	18X31A0438	GADDAM DEVENDHAR	20	13	21	10	15	79
34	18X31A0439	GADDAM JAYANTH REDDY	20	15	23	8	13	79
35	18X31A0440	GADDAM SANDHYA	20	12	22	10	16	80
36	18X31A0442	GARLAPATI POOJITHA	20	16	23	10	9	78
37	18X31A0443	GODUGU VIVEK RAJ	20	12	20	6	12	70
38	18X31A0444	GOKA BALA VIKAS	20	14	18	10	12	74
39	18X31A0446	GUBBA BHAVANA	20	19	29	10	20	98
40	18X31A0447	GUDEDAVUNI VARUN GOUD	20	15	24	8	12	79
41	18X31A0448	GUJJA PAVANI	20	16	22	9	13	80
42	18X31A0449	GUNDA PRADEEP REDDY	20	12	20	7	13	72
43	18X31A0450	GUNDAGONI GOPI	20	12	18	8	12	70



44	18X31A0453	JAKKULA PANDU	20	16	23	10	16	85
45	18X31A0455	JATOVATH MADHU	20	15	15	10	10	70
46	18X31A0456	JAVAJI MOUNIKA	20	20	27	10	16	93
47	18X31A0457	JAYINI SAI CHARITHA	20	20	28	10	18	96
48	18X31A0458	JELLA HARISH	20	15	20	10	15	80
49	18X31A0459	JIGURU KRISHNA LIKHITH	20	15	15	10	15	75
50	18X31A0460	K NIHARIKA	20	15	20	10	15	80
51	19X35A0401	ANGOTHU VAMSHI	20	16	20	10	16	82
52	19X35A0402	BATHULA GIRIDHAR	20	15	18	9	14	76
53	19X35A0403	DAMARLA NIROSHA	18	13	15	10	9	65
54	19X35A0404	ELKA ARAVIND SAI	20	15	18	10	15	78
55	19X35A0405	PRANEETH	20	15	18	10	14	77
56	19X35A0406	ESLAVATH NAVEEN	20	15	17	10	13	75
57	19X35A0407	GAVVALA LINGAM	20	16	23	10	16	85
58	19X35A0408	GINUKUNTALA MEGHANA	20	16	21	9	15	81
59	19X35A0409	GONE PRANEESH	20	16	20	10	14	80
60	19X35A0410	GURIJALA NAGARAJU	20	17	21	10	15	83

Panel Member -1

Panel Member -2

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