



# Sri Indu Institute of Engineering & Technology

Recognized Under 2(f) of UGC Act 1956

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  
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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

(Established by Govt. Act No. 30 of 2008)

**Kukatpally, Hyderabad – 500085, Telangana, India.**

**Dr. M. Manzoor Hussain**  
M.Tech., Ph.D.,  
Professor of Mechanical Engineering &  
**REGISTRAR**

Lr. No. DAPO/Acad. Cal./Commencement of on-campus Class work /2021 Dt: 20.03.2021

To  
The Directors / Principals of Constituent, Affiliated and Autonomous Colleges of JNTUH

Sub: JNTUH, Hyderabad – Directorate of Academic & Planning – Commencement of on-campus Class work for the Academic Year 2020-21- Reg.

Ref: 1 UGC guide lines for reopening the universities and colleges post lockdown due to COVID-19 pandemic, dated 05.11.2020.

2 Note orders of the Vice-Chancellor dated 20.03.2021.

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With reference to the subject cited above, it is here by informed the Directors / Principals of all constituent, affiliated and autonomous Colleges of JNTUH that on-campus classwork for UG IV-Year II-Semester, I-Year I-Semester and PG I-Semester students studying in various courses shall commence from 22-03-2021 (Monday). You are requested to maintain proper hygienic conditions as per Standard Operating Procedure (SOP) given by UGC for COVID-19 pandemic.

All the Directors / Principals have to make a note that all the COVID-19 pandemic norms prescribed by State Government of Telangana and UGC shall be followed scrupulously to ensure smooth functioning of the Academic and Administrative activities.

The following are the Academic schedules and Guidelines to be followed:

**Academic Schedules:**

Dates	B. Tech./B. Pharm courses (IV Year II Sem & I Year I Sem)	B. Tech./B. Pharm courses (II & III Years II Sem)	MBA/MCA/M.Tech/ M.Pharm. Courses I Sem and Pharm.D/ Pharm.D(PR)
22-3-2021 to 30-4-2021	On-campus classes	Online classes	On-campus classes

Contd....2



Guidelines

1. All the above students including faculty and supporting staff shall be intimated about the commencement of class work from 22.03.2021. Accordingly, the academic units shall keep the entire premises ready for starting on-campus class work.
2. The Principals are requested to identify the students from outstation who require accommodation in College attached Hostels and arrange them the hostel accommodation by following the COVID-19 precautionary norms.
3. The Colleges are advised to maintain proper hygienic conditions in each and every unit with frequent sanitization of class rooms, laboratories, toilets, etc. The Colleges shall take separate **Declaration forms** from the students that they will follow strictly the COVID-19 precautionary norms in the college premises and hostels.
4. The parents of the students seeking hostel facility shall give an **Undertaking form** that, the hostel accommodation is provided at the request of the parents and the stay of their wards in the hostel is the sole responsibility of both students and parents.
5. It is suggested that, the students shall come with latest RT-PCR test report particularly for the students staying in the hostel.
6. The Colleges are suggested to display boards / flexi banners indicating precautions/procedures for prevention of COVID-19 at all prominent points in the campus and make sure that they are visible to all the students, staff and visitors.
7. It is suggested that every College administration shall be prepared to face any medical emergencies related to COVID-19 /any other case(s) in their campus. Further, all the Colleges are advised to provide the necessary arrangement for the affected person(s) for isolation and medical care.
8. All the faculty, staff and students shall wear masks, use sanitizer frequently. The college shall provide extra masks in each department for the needy people.
9. The Colleges shall make necessary arrangements to provide Hot water to the students by providing Hot Water Dispenser system in the Mess / Dining halls of the Hostel.
10. Necessary equipment shall be procured for thermal scanning of students at least once in a day at the respective departments in the campus and also in mess / hostel premises.
11. Further, any additional measures initiated by the Colleges towards the prevention of COVID-19 and for the welfare of the Students, Faculty members & Supporting staff are highly appreciated.
12. All the faculty members shall attend the College without fail irrespective of whether they are engaging classes online or offline.

Yours sincerely

  
20/03/2021  
REGISTRAR

  
PRINCIPAL  
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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**ACADEMIC CALENDAR 2020-21**

For All Constituent & Affiliated Colleges of JNTUH

B. Tech./B.Pharm. I Year I & II Semesters

(Online Classes)

**B. Tech./B.Pharm. I Year - I Semester**

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork / Orientation Programme		01.12.2020
2	1 <sup>st</sup> Spell of Instructions	01.12.2020	23.01.2021 (8 Weeks)
3	First Mid Term Examinations	25.01.2021	30.01.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		06.02.2021
5	Parent-Teacher Meeting		12.02.2021
6	2 <sup>nd</sup> Spell of Instructions	01.02.2021	27.03.2021 (8 Weeks)
7	Second Mid Term Examinations (including public holidays)	29.03.2021	06.04.2021 (1 Week)
8	Preparation Holidays and Practical Examinations	07.04.2021	12.04.2021 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		12.04.2021
10	End Semester Examinations	15.04.2021	29.04.2021 (2 Weeks)

**B. Tech./ B.Pharm. I Year - II Semester**

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		30.04.2021
2	1 <sup>st</sup> Spell of Instructions	30.04.2021	24.06.2021 (8 Weeks)
3	First Mid Term Examinations	25.06.2021	30.06.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		05.07.2021
5	Parent-Teacher Meeting		09.07.2021
6	2 <sup>nd</sup> Spell of Instructions	01.07.2021	25.08.2021 (8 Weeks)
7	Second Mid Term Examinations	26.08.2021	01.09.2021 (1 Week)
8	Preparation Holidays and Practical Examinations	02.09.2021	08.09.2021 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		08.09.2021
10	End Semester Examinations	09.09.2021	22.09.2021 (2 Weeks)

Note: All the laboratory courses shall be conducted once normalcy is restored.

  
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**Dr. M. Manzoor Hussain**  
M.Tech., Ph.D.,  
Professor of Mechanical Engineering &  
**REGISTRAR**

Lr. No. A1/4/revised Academic calendars/2021

Date: 18.05.2021

To,  
The Principals of Constituent & Affiliated Colleges of JNTUH.  
Engineering and Pharmacy colleges

Sir/Madam,

Sub: JNTUH-Academic & Planning, revised academic calendar for II and III-year II semesters of B.Tech./B.Pharm, MBA/MCA II Year II Semester and Pharm. D (Regular) II, III, IV, V Year and Pharm.D (PB) II Year for the academic year 2020-21.  
Ref: 1. Note orders of the Vice-Chancellor, dated:18-5-2021.

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With reference to the representations received due to unforeseen prevailing COVID-19 conditions and lockdown (12-5-2021 to 22-5-2021), after review revised the revised academic calendar for B. Tech/ B.Pharm. II & III Year - II Semester, MBA/MCA II Year II Semester and Pharm. D (Regular) II, III, IV, V Year and Pharm D (PB) II Year is given below. The summer vacation of 2 weeks from 17-5-2021 to 29-5-2021 is added to preparation/laboratory class work/lab exams.

The Principals of Constituent & Affiliated Colleges of JNTUH are requested to take necessary measures and instruct the HODs/staff members to follow the revised schedule. Please feel free to clarify any doubt you have in this connection. This is for your reference and necessary action.

Yours Sincerely

  
REGISTRAR

Encl: Revised Academic Calendar

1. B. Tech./ B.Pharm. II & III Years - II Semester
2. MBA/MCA II Year II Semester
3. Pharm. D (Regular) II, III, IV, V Year and Pharm.D (PB) II Year

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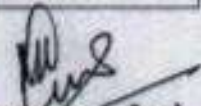
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**Revised Academic Calendar 2020-21**

**For All Constituent & Affiliated Colleges of JNTUH**

**B. Tech/ B.Pharm. II & III Years - II Semester**

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	22.03.2021	
2	1 <sup>st</sup> Spell of Instructions	22.03.2021	15.05.2021 (8 Weeks)
3	2 <sup>nd</sup> Spell of Instructions	17.05.2021	29.05.2021 (2 Weeks)
4	First Mid Term Examinations	31.05.2021	05.06.2021 (1 Week)
5	Submission of I-Mid Term Exam Marks to the University on or before	11.06.2021	
6	Continuation of 2 <sup>nd</sup> Spell of Instructions	07.06.2021	17.07.2021 (6 Weeks)
7	Second Mid Term Examinations	19.07.2021	24.07.2021 (1 Week)
8	Preparation Holidays / Conduct of laboratory classes / Practical Examinations	26-7-2021	14.08.2021 (3 Weeks)
10	Submission of II-Mid Term Exam Marks to the University on or before	04.08.2021	
11	End Semester Examinations	16.08.2021	28.08.2021 (2 Weeks)

  
REGISTRAR  
18/08/21

REGISTRAR  
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**Dr. M. Manzoor Hussain**  
M.Tech., Ph.D.,  
**Professor of Mechanical Engineering &  
REGISTRAR**

Lr. No. A1/4/revised Academic calendar/IV UG/2021

Date: 05.06.2021

To,  
The Principals of Constituent & Affiliated Colleges of JNTUH.

Sir/Madam,

Sub: JNT University Hyderabad – Academic & Planning – revised academic calendar for IV-II semesters of B.Tech./B. Pharm for the academic year 2020-21.

Ref: 1. Note orders of the Vice-Chancellor, Dt: 5.6.2021.

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With reference to the lockdown period (12-5-2021 to 22-5-2021) and lockdown extension till 09-06-2021, a revised academic calendar for B. Tech./ B. Pharm. IV Year - II Semester is rescheduled. The Principals of Constituent & Affiliated Colleges of JNTUH are requested to make a note and instruct the faculty to follow accordingly.

This is for your reference and necessary action.

Yours Sincerely,

  
05/06/21  
REGISTRAR

Encl: Revised Academic Calendar

  
PRINCIPAL  
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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**Revised Academic Calendar 2020-21**  
**For All Constituent & Affiliated Colleges of JNTUH**

**B. Tech./ B.Pharm. IV Year - II Semester**

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	22.03.2021	
2	1 <sup>st</sup> Spell of Instructions including First Mid Term Examinations (3 Subjects only)	22.03.2021	01.05.2021 (6Weeks)
3	Submission of First Mid Term Exam Marks to the University on or before	05.05.2021	
4	2 <sup>nd</sup> spell instructions including Second mid-term examinations	03-05-2021	26-06-2021 (8 weeks)
6	Project-work Viva-voce exams and preparation holidays	28-06-2021	30-06-2021
7	Submission of second mid-term exam marks to the University and upload of project-viva exam award lists on or before	02-07-2021	
8	Commencement of IV-II semester examinations	01-07-2021	07-07-2021

Note: Total No. of days: 90 days including Saturdays/Sundays and excluding public holidays. The colleges are informed to increase the instruction hours per week such that the AICTE specified instruction hours per subject are fully complied with, i.e., 32 hours for each two-credit theory course and 48 hours for each three-credit theory course in IV-II semester. Similar requirement for project work should also be complied with. Further the colleges are informed to upload the details of class-work, i.e. number of hours of classes taken per each subject till 31-05-2021 to the examination branch portal in the excel template given by the examination branch.

  
 05/06/21  
**REGISTRAR**

  
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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**Revised Academic Calendar for 2020-21**

**B. Tech./ B.Pharm. I Year - II Semesters**

**Revised Academic Calendar for B. Tech. I Year - II Semester for the Academic Year 2020-21**

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	15.04.2021	
2	1 <sup>st</sup> Spell of Instructions	15.04.2021	09.06.2021 (8 Weeks)
3	First Mid Term Examinations	10.06.2021	16.06.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	23.06.2021	
5	2 <sup>nd</sup> Spell of Instructions including End Semester Examinations for I / I Sem Lab Classes & Lab Examinations for I / I Sem	17.06.2021	28.08.2021 (8 Weeks + Examinations+ Labs)
		05.07.2021	13.07.2021
		16.08.2021	24.08.2021 (1 Week)
6	Second Mid Term Examinations	30.08.2021	04.09.2021 (1 Week)
7	Preparation Holidays, Lab Classes & Lab Examinations	06.09.2021	18.09.2021 (2 Weeks)
8	Submission of Second Mid Term Exam Marks to the University on or before	13.09.2021	
9	End Semester Examinations	20.09.2021	01.10.2021 (2 Weeks)

**Revised Academic Calendar for B. Pharm. I Year - II Semester for the Academic Year 2020-21**

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	15.04.2021	
2	1 <sup>st</sup> Spell of Instructions	15.04.2021	09.06.2021 (8 Weeks)
3	First Mid Term Examinations	10.06.2021	16.06.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	23.06.2021	
5	2 <sup>nd</sup> Spell of Instructions including End Semester Examinations for I / I Sem Lab Classes & Lab Examinations for I / I Sem	17.06.2021	28.08.2021 (8 Weeks + Examinations+ Labs)
		05.07.2021	15.07.2021 & 22.07.2021
		16.08.2021	24.08.2021 (1 Week)
6	Second Mid Term Examinations	30.08.2021	04.09.2021 (1 Week)
7	Preparation Holidays, Lab Classes & Lab Examinations	06.09.2021	18.09.2021 (2 Weeks)
8	Submission of Second Mid Term Exam Marks to the University on or before	13.09.2021	
9	End Semester Examinations	20.09.2021	01.10.2021 (2 Weeks)

  
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**REGISTRAR**





**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
(Established by Govt. Act No. 30 of 2008)

**Kukatpally, Hyderabad – 500085, Telangana, India**

**Dr. M. Manzoor Hussain**  
M.Tech., Ph.D.,  
Professor of Mechanical Engineering &  
REGISTRAR

Circular No. A1/Lab Classes & Examinations /2020-21,

Date: 27.07.2021

**CIRCULAR**

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It is hereby informed to the Directors/ Principals of Constituent, Autonomous and Affiliated College of JNTU to conduct the Lab classes and Lab Examinations by offline as per schedule mentioned in the Academic Calendar for B.Tech/ B.Pharm., M.Tech/M.Pharm., MBA, MCA and Pharm.D. courses for the academic 2020-21.

Lab Classes and Lab Examinations:

Courses	Description	Duration	
		From	To
B.Tech / B.Pharm. I Year I Sem.	Lab Classes & Lab Examinations (as per revised calendar)	16.08.2021	24.08.2021 (1 Week)
B.Tech / B.Pharm. I Year II Sem	Preparation Holidays, Lab Classes & Lab Examinations (as per revised calendar)	06.09.2021	18.09.2021 (2 Weeks)
B.Tech / B.Pharm. II & III Year II Sem	Preparation Holidays, Lab Classes & Lab Examinations (as per schedule/ as per the college convenience excluding the dates 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 9 <sup>th</sup> & 10 <sup>th</sup> of Aug. 2021 for the colleges which have TS ECET-2021/TS EAMCET-2021 Test Centres)	26.07.2021	14.08.2021 (3 Weeks)
M.Tech / M.Pharm./ MBA/ MCA- I Year I Sem.	Preparation Holidays, Lab Classes & Lab Examinations (middle of the exams of I/I Sem/ as per the college convenience)	03.08.2021	14.08.2021 (10 Days)
M.Tech / M.Pharm./ MBA/ MCA- I Year II Sem.	Preparation Holidays, Lab Classes & Lab Examinations (as per revised calendar)	30.09.2021	13.10.2021 (2 Weeks)




MBA/MCA- II Year II Sem.	Practical classes & examinations to be conducted as per the convenience after End Semester Examinations (i.e. after 25.8.2021, if not conducted) & submission of practical exam marks to the University.		
Pharm.D & Pharm.D (PB) - I Year	Preparation Holidays & Lab Examinations (as per schedule)	13.09.2021	25.09.2021 (2 Weeks)
Pharm.D- II, III, IV, V Years & Pharm.D (PB) II Year	Practical classes & examinations to be conducted as per the convenience after End Examinations (if not conducted) & submission of practical exam marks to the University.		

The Directors /Principals of Constituent, Autonomous and Affiliated Colleges are requested to take necessary action above Lab Classes and Examinations and follow the Covid precautions.

Revised Academic Calendars for B. Tech. / B.Pharm. 1 Year - II Sems. & M.Tech./ M.Pharm. /MBA / MCA-I Year - II Sems. for the academic 2020-21 are enclosed.

  
 REGISTERED  
 30/7/21

To,  
 All the Directors /Principals of Constituent, Autonomous and Affiliated Colleges of JNTUH.  
 Copy to the DE/PA to Rector/ PA to Vice-Chancellor, JNTUH, Hyderabad.

  
 PRINCIPAL  
 Sri Indu Institute of Engineering & Tech  
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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**REVISED ACADEMIC CALENDAR 2020-21**

For All Constituent & Affiliated Colleges of JNTUH  
B. Tech./B.Pharm. II, III & IV Years I & II Semesters

**B. Tech./P.Pharm. II, III & IV Years - I Semester**

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	01.09.2020	
2	1 <sup>st</sup> Spell of Instructions (including Dussehra Recess)	01.09.2020	31.10.2020 (9 Weeks)
3	Dussehra Recess	19.10.2020	24.10.2020
4	End Examinations preparation holidays - Previous Semesters	02.11.2020	04.11.2020 (3 days)
5	2 <sup>nd</sup> Spell of Instructions (including First Mid Term Examinations)	14.12.2020	13.02.2021 (9 Weeks)
6	First Mid Term Examinations	21.12.2020	28.12.2020 (1 Week)
7	Submission of First Mid Term Exam Marks to the University on or before	04.01.2021	
8	Second Mid Term Examinations	15.02.2021	20.02.2021 (1 Week)
9	Practical classes	22.02.2021	27.02.2021 (1 Week)
10	Preparation Holidays and Practical Examinations	01.03.2021	06.03.2021 (1 Week)
11	Submission of Second Mid Term Exam Marks to the University on or before	27.02.2021	
12	End Semester Examinations	08.03.2021	20.03.2021 (2 Weeks)

**B. Tech./ B.Pharm. II, III & IV Years - II Semester**

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	22.03.2021	
2	1 <sup>st</sup> Spell of Instructions	22.03.2021	15.05.2021 (8 Weeks)
3	Summer Vacation	17.05.2021	29.05.2021 (2 Weeks)
4	First Mid Term Examinations	31.05.2021	05.06.2021 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	11.06.2021	
6	2 <sup>nd</sup> Spell of Instructions	07.06.2021	31.07.2021 (8 Weeks)
7	Second Mid Term Examinations	02.08.2021	07.08.2021 (1 Week)
8	Preparation Holidays and Practical Examinations	09.08.2021	14.08.2021 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	14.08.2021	
10	End Semester Examinations	16.08.2021	28.08.2021 (2 Weeks)

Note: 1 All the laboratory courses shall be conducted once normalcy is restored.

2 Regular End Semester Examinations of previous Semester (including lab exams) as per the data received from the Examination branch: 05.11.2020 to 11.12.2020.

Sd/- XXXXXX

DIRECTOR, ACADEMIC & PLANNING

PRINCIPAL  
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Vijayapada(V), Ibrahimpatnam  
Hydrabad  
R. Dist. Telangana - 50

10/03/2021  
10/03/2021  
10/03/2021





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



		Mini- project	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.



- 7.4 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 end semester 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 end semester examinations 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** there shall be five questions in the semester end examination. 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 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. SEE will be conducted for 75 marks consisting of two parts viz. (i) Part – A for 30 marks, (ii) Part – B for 45 marks. Part – B is compulsory. Choice may be given in Part – A.
- 8.2.4 For the Subject **Estimation, Costing and Project Management**, the semester end examination paper should consist of Part- A, Part-B and Part C. Part – A consists of two questions in detailed estimation of buildings out of which one question must be answered. Part – B consists of two questions in estimation of steel and earthwork out of which one question must be answered. Part – C consists of five questions in the



remaining units out of which three should be answered. Weightage for Part – A is 40%, Part-B is 20% and Part C - 40%.

- 8.2.5 For subjects **Structural Engineering – I & II (RCC & STEEL)**, the end semester examination 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 10 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

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

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

where 'M' is the total no. of subjects (as specifically required and listed under the course structure of the parent department) the student has 'registered' i.e., from the 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 x 8 = 32
Course 2	4	O	10	4 x 10 = 40
Course 3	4	C	5	4 x 5 = 20
Course 4	3	B	6	3 x 6 = 18
Course 5	3	A+	9	3 x 9 = 27
Course 6	3	C	5	3 x 5 = 15
	21			152

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

**Illustration of calculation of CGPA up to 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 For calculations listed in regulations 9.6 to 9.9, performance in failed subjects/ courses (securing F grade) will also be taken into account, and the credits of such subjects/ courses will also be included in the multiplications and summations. After passing the failed subject(s) newly secured letter grades will be taken into account for calculation of SGPA and CGPA. However, mandatory courses will not be taken into consideration.

**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.**

#### 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 (or transcript) 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.





## 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:	
I. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which student is appearing but has not made use of (material shall include any marks on the body of the student which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
(b)	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or communicates through cell phones with any student or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the students involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the student is appearing.	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 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 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 case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.



	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.	
7.	Leaves the exam hall taking away answer script or intentionally tears off the script or any part thereof inside or outside the examination hall.	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.
8.	Possesses any lethal weapon or firearm in 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 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.
9.	If student of the college, who is not a student for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.  Person(s) who do not belong to the college will be handed over to the police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared for including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of



		that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the student has appeared for including practical examinations and project work of that semester/year examinations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award a suitable punishment.	

**Malpractices identified by squad or special invigilators**

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

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# 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 THE**

### **ACADEMIC YEAR 2016-17 (R-16)**

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

**1.1** 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 2016-17 in the following branches of Engineering:

<b>Sl. No.</b>	<b>Branch</b>
1.	Civil Engineering
2.	Electrical and Electronics Engineering
3.	Mechanical Engineering
4.	Electronics and Communication Engineering
5.	Computer Science and Engineering
6.	Chemical Engineering
7.	Electronics and Instrumentation Engineering
8.	Bio-Medical Engineering
9.	Information Technology
10.	Mechanical Engineering (Mechatronics)
11.	Electronics and Telematics Engineering
12.	Metallurgy and Material Technology
13.	Electronics and Computer Engineering
14.	Mechanical Engineering (Production)
15.	Aeronautical Engineering
16.	Instrumentation and Control Engineering
17.	Biotechnology
18.	Automobile Engineering
19.	Mining Engineering
20.	Petroleum Engineering
21.	Civil and Environmental Engineering
22.	Mechanical Engineering (Nano Technology)
23.	Computer Science & Technology
24.	Pharmaceutical Engineering





## 2.0 Eligibility for admission

2.1 Admission to the under graduate programme shall be made either on the basis of the merit rank obtained by the qualified candidate 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 E&T will be **English only**.

## 3.0 B.Tech. Programme structure

3.1 A student after securing admission shall pursue the under graduate programme in B.Tech. 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 semester is structured to provide 24 credits, totaling to 192 credits for the entire B.Tech. programme.

Each student shall secure 192 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 being divided into two semesters of 22 weeks ( $\geq 90$  instructional days) each, each semester having - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'. Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) as 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.
- One credit for two hours/ week/ semester for laboratory/ practical (P) courses or tutorials (T).

Courses like Environmental Science, Professional Ethics, Gender Sensitization lab and other student activities like NCC/NSO and NSS are identified as 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 (E/C)	PE - Professional Electives	Includes elective subjects related to the parent discipline/ department/ branch of Engineering.
6		OE - Open Electives	Elective subjects which include inter-disciplinary subjects or subjects in an area outside the parent discipline/ department/ branch of Engineering.
7	Core Courses	Project Work	B.Tech. project or UG project or UG major project
8		Industrial training/ Mini- project	Industrial training/ Internship/ UG 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 15 students, who will advise student 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 the subjects/ courses of **choice** with a total of 24 credits per semester (minimum of 20 credits and maximum of 28 credits per semester and permitted deviation of  $\pm 17\%$ ), 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. However, a **minimum** of 20 credits per semester must be registered to ensure the 'studentship' in any semester.
- 4.5 Choice for 'additional subjects/ courses' to reach the maximum permissible limit of 28 credits (above the typical 24 credit norm) 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 (subject to retaining a minimum of 20 credits), '**within a period of 15 days**' from the beginning of the current semester.
- 4.9 **Open electives:** The students have to choose one open elective (OE-I) in III year I semester, one (OE-II) in III year II semester, and one (OE-III) in IV year II semester, from the list of open electives given. However, the student cannot opt for an open elective subject offered by their 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:** students have to choose professional elective (PE-I) in III year II semester, Professional electives II, III, and IV (PE-II, III and IV) in IV year I semester, Professional electives V, and VI (PE-V and VI) in IV year II semester, from the list of professional electives given. However, the students may opt for professional elective subjects offered in the related area.
- 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 Department concerned shall decide, whether or not to offer such a subject/ course for **two (or multiple) sections**.
- 6.0 **Attendance requirements:**
- 6.1 A student shall be eligible to appear for the semester end examinations, if student acquires a minimum of 75% of attendance in aggregate of all the subjects/ courses (excluding attendance in mandatory courses Environmental Science, Professional Ethics, Gender Sensitization Lab, NCC/NSO and NSS) for that semester.
- 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 towards 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 student was detained, by seeking re-admission into that semester as and when offered; in case 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% marks (26 out of 75 marks) in the semester end examination, and a minimum of 40% of 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 UG mini-project and seminar, if student secures not less than 40% marks (i.e. 40 out of 100 allotted marks) in each of them. The student would be treated as failed, if student (i) does not submit a report on UG mini-project, 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 UG mini-project/ seminar evaluations.

Student may reappear once for each of the above evaluations, when they are scheduled again; if student fails in such 'one reappearance' evaluation also, 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 24 credits out of 48 credits i.e., 50% of 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 58 credits out of 96 credits i.e., 60% of





		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 86 credits out of 144 credits i.e., 60% of 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 shall register for all subjects covering 192 credits as specified and listed in the course structure, fulfills all the attendance and academic requirements for 192 credits, 'earn all 192 credits' by securing SGPA  $\geq 5.0$  (in each semester) and CGPA (at the end of each successive semester)  $\geq 5.0$  to successfully complete the under graduate programme.
- 7.5 After securing the necessary 192 credits as specified for the successful completion of the entire under graduate programme, the student can avail exemption of two subjects up to 6 credits, that is, one open elective and one professional elective subject or two professional elective subjects for optional drop out from these 192 credits earned; resulting in 186 credits for under graduate programme performance evaluation, i.e., the performance of the student in these 186 credits shall alone be taken into account for the calculation of 'the final CGPA (at the end of under graduate programme, which takes the SGPA of the IV year II semester into account)', and shall be indicated in the grade card of IV year II semester. However, the performance of student in the earlier individual semesters, with the corresponding SGPA and CGPA for which grade cards have already been given will not be altered.
- 7.6 If a student registers for some more 'extra subjects' (in the parent department or other departments/branches of engg.) other than those listed subjects totaling to 192 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 192 credits) will not be taken into account while calculating the SGPA and CGPA. For such 'extra subjects' registered, % 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 – 7.5 above.





- 7.7 A student eligible to appear in the end semester 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, 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.
- 7.8 A student detained in a semester due to shortage of attendance, may be re-admitted when the same semester is offered in the next academic year for fulfillment of academic requirements. The academic regulations under which student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which student has been detained.
- 7.9 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 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 UG major project) 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 essay paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for essay paper). The objective paper is set with 20 bits of multiple choice, fill-in the blanks and matching type of questions for a total of 10 marks. The essay 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-examination, and the second assignment should be submitted before the conduct of the second mid-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 internals/sessionals. 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 question paper pattern are as follows,
- The end semester examinations 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 compulsory question which consists 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.
- 8.3 For practical subjects there shall be a continuous internal evaluation during the semester for 25 sessional marks and 75 semester end examination marks. 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) 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 UG mini-project, 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. The UG mini-project shall be submitted in a report form and presented before the committee in IV year I semester. It shall be evaluated for 100 marks. The committee consists of an external examiner, Head of the Department, supervisor of the UG mini-project and a senior faculty member of the department. There shall be no internal marks for UG mini-project.
- 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 marks. There shall be no semester end examination for the seminar.
- 8.7 Out of a total of 100 marks for the UG major project, 25 marks shall be allotted for internal evaluation and 75 marks for the end semester examination (viva voce). The end semester examination of the UG major project shall be conducted by the same committee as appointed for the UG mini-project. In addition, the UG major project supervisor shall also be included in the committee. The topics for UG mini project, seminar and UG major project shall be different from one another. The evaluation of UG major project shall be made at the end of IV year II semester. The internal evaluation shall be on the basis of two seminars given by each student on the topic of UG major project.





- 8.8 The laboratory marks and the sessional marks awarded by the college are subject to scrutiny and scaling by the university wherever necessary. In such cases, the sessional 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.
- 8.9 For mandatory courses environmental science, professional ethics 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.
- 8.10 For mandatory courses NCC/ NSO and NSS, a 'satisfactory participation certificate' shall be issued to the student from the authorities concerned, only after securing  $\geq 65\%$  attendance in such a course.
- 8.11 No marks or letter grade shall be allotted for all mandatory/non-credit courses.

## 9.0 Grading procedure

- 9.1 Marks will be awarded to indicate the performance of student in each theory subject, laboratory / practicals, seminar, UG mini project and UG major project. 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 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 obtaining '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 A student who has not appeared for examination in any subject, 'Ab' grade will be allocated in that subject, and student shall be considered 'failed'. Student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered.
- 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 The 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

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

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

where 'M' is the total no. of subjects (as specifically required and listed under the course structure of the parent department) the student has 'registered' i.e., from the 1<sup>st</sup> semester onwards up to and inclusive of the S<sup>th</sup> semester, 'j' is the subject indicator index (takes





9.11 For calculations listed in regulations 9.6 to 9.9, performance in failed subjects/ courses (securing F grade) will also be taken into account, and the credits of such subjects/ courses will also be included in the multiplications and summations. After passing the failed subject(s) newly secured letter grades will be taken into account for calculation of SGPA and CGPA. 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 student secures a GP  $\geq$  5 ('C' grade or above) in every subject/course in that semester (i.e. when student gets an SGPA  $\geq$  5.00 at the end of that particular semester); and a student 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 (or transcript) 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, and grade earned etc.), credits earned, SGPA, and CGPA.

#### 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 192 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 the B.Tech. degree in the chosen branch of Engineering as 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 Students with final CGPA (at the end of the under graduate programme)  $\geq$  8.00, and fulfilling the following conditions -

- (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 first year first semester onwards.





(iii) Should not have been detained or prevented from writing the end semester examinations in any semester due to shortage of attendance or any other reason, shall be placed in '**first class with distinction**'.

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 '**university rank**' and '**gold medal**'.

### 13.0 **Withholding of results**

13.1 If the student has not paid the fees to the university/ college 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 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 **Transitory regulations**

14.1 A student who has discontinued for any reason, or has been detained for want of attendance or lack of required credits as specified, or who has failed after having undergone the degree programme, may be considered eligible for readmission to the same subjects/ courses (or equivalent subjects/ courses, as the case may be), and same professional electives/ open electives (or from set/category of electives or equivalents suggested, as the case may be) as and when they are offered (within the time-frame of 8 years from the date of commencement of student's first year first semester).

### 15.0 **Student transfers**

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

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

15.3 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.

- 15.4 The transferred students from other Universities/institutions to JNTUH affiliated colleges who are on rolls to be provide one chance to write the CBT (internal marks) in the **failed subjects and/or subjects not studied** as per the clearance letter issued by the university.
- 15.5 The autonomous affiliated colleges have to provide one chance to write the internal examinations in the **failed subjects and/or subjects not studied**, 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.
- 16.0 **Scope**
- 16.1 The academic regulations should be read as a whole, for the purpose of any interpretation.
- 16.2 In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- 16.3 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 date notified by the university authorities.





# 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) w.e.f the AY 2017-18

### 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 144 credits and secure 144 credits with CGPA  $\geq 5$  from II year to IV year B.Tech. programme (LES) for the award of B.Tech. degree. **Out of the 144 credits secured, the student can avail exemption up to 6 credits**, that is, one open elective subject and one professional elective subject or two professional elective subjects resulting in 138 credits for B.Tech programme performance evaluation.

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 29 credits out of 48 credits i.e., 60% of 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 58 credits out of 96 credits i.e., 60% of 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).





		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 UG major project 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 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 or 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.	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the student(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The students also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.





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 suitable punishment.	
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**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 the college to another college for a specific period of not less than one year.

\*\*\*\*\*





7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	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 UG major project 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.
8.	Possess any lethal weapon or firearm in 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 including practical examinations and UG major project 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.
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.	Student of the colleges 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 UG major project 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 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 including practical examinations and UG major project 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 including practical examinations and UG major project of that semester/year examinations.



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY - HYDERABAD - 500085

EXAMINATION BRANCH

II YEAR B.TECH I SEMESTER RIS REGULATION I-MID TERM EXAMINATIONS DECEMBER-2020

PROVISIONAL TIME TABLE

TIME → FN: 9.30 AM TO 10.50 AM

AN: 01.30 PM TO 02.50 PM

BRANCH	DATE, SESSION AND DAY					
	23-12-2020 FN WEDNESDAY	23-12-2020 AN WEDNESDAY	28-12-2020 FN MONDAY	28-12-2020 AN MONDAY	30-12-2020 FN WEDNESDAY	
CIVIL ENGINEERING (01-C-E)	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 Variables (common to ME, MECT, MMT, AE, MIE, PTM) ✓	Mechanics of Solids (common to ME, MECT, MIE) ✓	Material Science and Metallurgy (common to ME, MECT) ✓	Production Technology ✓	Thermodynamics ✓	

DATE: 18-12-2020

PRINCIPAL  
Sri Indu Institute of Engineering & Tech.  
Sheriguda(V), Ibrahimpatnam(M)  
R.R. Dist. Telangana -501 511



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY - HYDERABAD - 500085

EXAMINATION BRANCH

III YEAR B.TECH - I SEMESTER - R18 REGULATION I MID TERM EXAMINATIONS DECEMBER-2020

PROVISIONAL TIME TABLE

TIME → FN: 9.30 AM TO 10.50 AM

AN: 01.30 PM TO 02.50 PM

DATE, SESSION AND DAY

BRANCH	DATE, SESSION AND DAY		DATE, SESSION AND DAY		DATE, SESSION AND DAY	
	24-12-2020 FN THURSDAY	24-12-2020 AN THURSDAY	29-12-2020 FN TUESDAY	29-12-2020 AN TUESDAY	31-12-2020 FN THURSDAY	31-12-2020 AN THURSDAY
CIVIL ENGINEERING (01-C-E)	Structural Analysis-II ✓	Geotechnical Engineering ✓	Structural Engineering-I ✓	Transportation Engineering ✓	Concrete Technology Theory of Elasticity Rock Mechanics ✓	Engineering Economics and Accountancy Common to (CE, MME)
					Computer Architecture High Voltage Engineering Electrical Machine Design	
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Power Electronics	Power System-II	Measurements and Instrumentation	Business Economics and Financial Analysis Common to (EEE, ME, ECE, EIE, MCT, AE)		
MECHANICAL ENGINEERING (03-ME)	Dynamics of Machinery Common to (ME, MCT) ✓	Design of Machine Members-I ✓	Metrology & Machine Tools ✓	Business Economics & Financial Analysis Common to (EEE, ME, ECE, EIE, MCT, AE)	Thermal Engineering-II ✓	Operations Research ✓

DATE: 18-12-2020

Principal  
Institute of Engineering & Tech  
Jawahar Institute of Engineering & Tech  
Kukatpally, Hyderabad-500085  
Ph: 01-23301000



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

KUKATPALLY - HYDERABAD - 5000 85  
EXAMINATION BRANCH

**IV YEAR B.TECH - I SEMESTER - R16 REGULATION I - MID TERM EXAMINATIONS DECEMBER-2020**  
**PROVISIONAL TIME TABLE**

TIME → FN: 11.30 AM TO 12.50 PM  
AN: 3.30 PM TO 4.50 PM

BRANCH	23-12-2020 FN WEDNESDAY	23-12-2020 AN WEDNESDAY	28-12-2020 FN MONDAY	28-12-2020 AN MONDAY	30-12-2020 FN WEDNESDAY
			E2	E3	E4
CIVIL ENGINEERING (01-CE)	TRANSPORTATION ENGINEERING ✓	ESTIMATION QUANTITY SURVEYING AND VALUATION ✓	CONSTRUCTION TECHNOLOGY AND MANAGEMENT ✓	GROUND IMPROVEMENT TECHNIQUES ✓	IRRIGATION AND HYDRAULIC STRUCTURES
			FOUNDATION ENGINEERING		
			REHABILITATION AND RETROFITTING OF STRUCTURES	WATERSHED MANAGEMENT	BRIDGE ENGINEERING
			STOCHASTIC HYDROLOGY	PRESTRESSED CONCRETE	TRAFFIC ENGINEERING ✓

Date: 18-12-2020

  
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# Sri Indu Institute of Engineering & Technology

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

I - Mid Examinations, DEC -2020

Set - II

Year & Branch: IV ECE

Subject: MWE

Max. Marks: 10

Date: 23-12-2020

Time: 60 mins

Answer any TWO Questions. All Question Carry Equal Marks

2\*5=10 marks

(This question paper is prepared with Course Outcome and BT's mapping)

1. a) Derive the wave equation for a TE wave and obtain all the field components in a Rectangular waveguides. [3M] (C411.1) [Creating]  
b) Define phase velocity and group velocity in rectangular waveguide? Write the relation Between them [2M] (C411.1) [Remembering]
2. a) What are the various losses in a Micro strip line? Explain. [2M] (C411.1) [Knowledge]  
b) Determine the Impedance of Rectangular waveguide in TE and TM Mode. [3M] (C411.1) [Knowledge]
3. a) What are the different types of attenuators? Explain them with neat diagrams. [2M] (C411.2) [Remembering]  
b) Draw the structure of E-Plane Tee and explain its characteristics. Derive the Scattering Matrix for E-Plane Tee. [2M] (C411.2) [Understanding]  
c) Write short notes on Waveguide Irises. [1M] (C411.2) [Applying]
4. a) What are the different types of phase -shifter and explain them with neat diagram. [2M] (C411.1) [Remembering]  
b) Explain the coupling probes and coupling loops? [1M] (C411.2) [understanding]  
c) Write the Classification of Microwave Tubes and explain the difference between O-Type tubes and M-Type Tubes. [1M] (C411.3) [Applying]

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B-303

# Sri Indu Institute of Engineering & Technology

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

B-Tech I - Mid Examinations, SEP -2019

## Objective Type Exam

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

Date: 23-12-2020(FN)

Subject: MWE

Max. Marks: 10

Time: 20 mins

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

Choose the correct answers.

20\*0.5=10 marks

1. Ku band range \_\_\_\_\_ GHz  
a) 5 to 8    b) 12.5 to 18.0    c) 11 to 14    d) none
2. Dominant mode of rectangular waveguide \_\_\_\_\_  
a)  $TE_{11}$     b)  $TE_{01}$     c)  $TE_{10}$     d)  $TM_{11}$
3. Waveguide acts as a \_\_\_\_\_  
a) HPF    b) LPF    c) BPF    d) BSF
4. Micro strip lines has \_\_\_\_\_ dielectric material  
a) Low loss    b) High loss    c) Medium loss    d) None
5. Symmetric property of a  $S_{23} =$  \_\_\_\_\_  
a)  $S_{21}$     b)  $S_{22}$     c)  $S_{23}$     d)  $S_{32}$
6. Microwave junction described by \_\_\_\_\_  
a) ABCD Parameters    b) h-parameters    c) S-parameters    d) None
7. In E-plane i/p at 3, o/p' sat 1 & 2. the phase shift between 1 & 2 \_\_\_\_\_  
a) 180    b) 90    c) 270    d) 360
8. Ferrite Materials are \_\_\_\_\_  
a) MnO    b)  $Fe_2O_3$     c) Both    d) None
10. In  $TE_{10}$  mode of wave propagation in a rectangular waveguide, if the broader dimension of the waveguide is 40 cm, then the cutoff wavelength for that mode is  
a) 8 cm    b) 6 cm    c) 4 cm    d) 2 cm

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# Sensors & Transducers MID EXAMINATION (Online Mode)

A.Y : 2020-21  
Semester : II  
Examination : QUIZ(Online Mode)  
Subject : Sensors & Transducers.  
Year & Section : IV ECE - A,B&C  
Number of Questions : 20  
Maximum Marks : 20  
Each Question Carry 1 Mark.

\* Required

1. Email \*

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2. ROLL NUMBER \*\*

---

3. NAME OF THE STUDENT \*

---

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4. DEPARTMENT \*

---

5. SECTION \*

*Mark only one oval.*

A

B

C

6. MAIL ID \*

---

7. MOBILE NUMBER \*

---

**CHOOSE THE CORRECT ANSWERS**

10\*1=10

8. 1. The smallest change which a sensor can detect is termed \*

*Mark only one oval.*

a) Accuracy

b) Precision

c) Resolution

d) Scale



9. 2.Which of the following is correct for tactile sensors? \*

*Mark only one oval.*

- a) Touch sensitive
- b) Pressure sensitive
- c) Input voltage sensitive
- d) Humidity sensitive

10. 3.Change in output of sensor with change in input is \_\_\_\_\_ \*

*Mark only one oval.*

- a) Threshold
- b) Slew rate
- c) Sensitivity
- d) None of the mentioned

11. 4. Which of the following error is caused by a reversal of measured property? \*

*Mark only one oval.*

- a) Hysteresis
- b) Noise
- c) Digitization error
- d) Quantization error



12. 5. Thermocouple generate output voltage according to \_\_\_\_\_ \*

Mark only one oval.

- a) Circuit parameters
- b) Humidity
- c) Temperature
- d) Voltage

13. 6. Smallest change which a sensor can detect is \_\_\_\_\_ \*

Mark only one oval.

- a) Resolution
- b) Accuracy
- c) Precision
- d) none of the above

14. 7. Sensor is a type of transducer. \*

Mark only one oval.

- a) TRUE
- b) FALSE
- c) Either True or False
- d) none of the above

  
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15. 8. Which of the following is not an analog sensor? \*

Mark only one oval.

- a) Potentiometer
- b) Force-sensing resistors
- c) Accelerometers
- d) None of the mentioned

16. 9. Function of transducer is to convert \*

Mark only one oval.

- a) Electrical signal into non electrical quantity
- b) Non electrical quantity into electrical signal
- c) Electrical signal into mechanical quantity
- d) both a & b

17. 10. Potentiometer transducers are used for the measurement of \*

Mark only one oval.

- a) Pressure
- b) Displacement
- c) Humidity
- d) Both (a) and (b)

#### FILL IN THE BLANKS

18. 1. Types of Transducers \_\_\_\_\_ \*

\_\_\_\_\_

10\*1=10

  
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19. 2. what are the methods in measurement \_\_\_\_\_ \*

\_\_\_\_\_

20. 3. What are the types of errors in transducers \_\_\_\_\_ \*

\_\_\_\_\_

21. 4. Closeness of measured value to true value is \_\_\_\_\_ \*

\_\_\_\_\_

22. 5. Strain gauge is a \_\_\_\_\_ \*

\_\_\_\_\_

23. 6. The ability to give same output reading when same input value is applied repeatedly is known as \_\_\_\_\_ \*

\_\_\_\_\_

24. 7. Comparing the unknown quantity with a known quantity is called \_\_\_\_\_ \*

\_\_\_\_\_

25. 8. For the measurement of pressure the instruments used can be \_\_\_\_\_ \*

\_\_\_\_\_

26. 9. The linear variable differential transformer transducer is \_\_\_\_\_ \*

\_\_\_\_\_



27. 10. The transducer used for the measurements is \_\_\_\_\_ \*

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# Sri Indu Institute of Engineering & Technology

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

II - Mid Examinations, FEB -2021

Set -I

Year & Branch: III -ECE (A,B,C)

Date: 25/02/21(AN)

Subject: DCN

Max. Marks: 10

Time: 60 mins

Answer any **TWO** Questions. All Question Carry Equal Marks

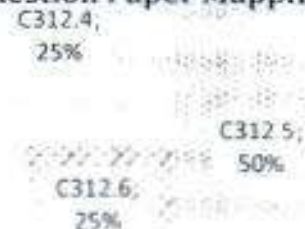
2\*5=10 marks

1. Difference between TCP and UDP? (C313.4) (Comprehension)
2. Explain about ICMP Protocol? (C313.3) (Knowledge)
3. Explain about FTP commands and replies (C313.6) (Knowledge)
4. Describe briefly about congestion control? (C313.5) (Knowledge)

Question Paper Mapping with



Question Paper Mapping with CO's



  
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**SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**ASSIGNMENT- I SUBJECT: DCCN**

1. Draw and explain in detail the OSI/ISO reference model? (Knowledge) (C312.1)
2. Explain briefly about Components and Data flow? (Analysis) (C312.1)
3. Explain briefly about network criteria and explain types of networks. (Analysis) (C312.1)
4. Explain the methods in noisy channels? (Analysis) (C312.2)
5. Explain the methods in noiseless channel ? (Analysis) (C312.2)
6. Explain the briefly about IPV4 addressing ? (Analysis) (C312.3)
7. Explain about Random access protocol? (Analysis) (C312.2)
8. Explain about HDLC in data link layer? (Analysis) (C312.3)
9. Explain the layers in TCP/IP suite? (Analysis) (C312.1)
10. Write the network service models in network layer? (Knowledge) (C312.3)
11. Difference between virtual circuit network and Datagram network?(Compare) (C312.3)

  
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## ASSIGNMENT 2:

- |   |                          |
|---|--------------------------|
| 1. Explain about ICMP Protocol?                           | (C312.3) (Knowledge)     |
| 2. Difference between TCP and UDP?                        | (C312.4) (Comprehension) |
| 3. Explain about multiplexing methods in transport layer? | (C413.4) (Knowledge)     |
| 4. Describe briefly about congestion control?             | (C312.5) (Knowledge)     |
| 5. Difference between Transport and network layer?        | (C413.4) (Comprehension) |
| 6. Explain about FTP commands and replies?                | (C413.6) (Knowledge)     |
| 7. Explain about STMP?                                    | (C413.6) (Knowledge)     |
| 8. Explain about DNS records and message?                 | (C413.6) (Knowledge)     |
| 9. Compare HTTP and DNS?                                  | (C413.6) (Comprehension) |

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



**SRI LINDU INSTITUTE OF ENGINEERING AND TECHNOLOGY  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Digital System Design Lab  
A.Y 2020-2021  
Internal I**

1. Design and Realization of **Boolean Expression using Logic Gates.**
2. Design and Realization of **Logic Gates using Universal Gates.**
3. Design and Realization of **4-bit Adder/Subtractor.**
4. Design and Realization of **Binary to Gray and Gray to Binary Converter.**
5. Design and Realization of **Synchronous Counter** using Flipflops.
6. Design and Realization of **Asynchronous Counter** using Flipflops.

  
**PRINCIPAL**  
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R R Dist. Telangana -501 510



**SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Digital System Design Lab**  
**A.Y 2020-2021**  
**Internal 2**

1. Design and Realization of Generation of Clock using NAND Gates.
2. Design and Realization of 4-bit Comparator.
3. Design and Realization of Parallel-in Serial-out Shift register using Flipflops.
4. Design and Realization of Sequence Detector as a Finite State Machine.
5. Design and Realization of 8\*1 Mux using 2\*1 Mux.

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



# SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to JNTUH, Hyderabad.  
[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(IT-KGP), Ph.D. FIE, MISTE, MISHM  
Principal

Dated: . . . 2021

To, B. Mohana Naidu

B.TECH (ECE)

18X31A0410

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 IV B.Tech I Sem, during this academic year 2018-19.

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 a **minimum of 75% attendance**. Otherwise he / she will be **DETAINED** in End Examinations and has to repeat the IV B.Tech I Sem class work to fulfill the academic regulation on attendance. You are requested to advise him / her accordingly for the improvement and fulfillment of University Norms. Feel free to contact Concern HOD / PRINCIPAL.

Subject	Attendance as on 16-10-2020 Number of classes		I - Mid Term Examinations
	Held	Attended	Max. Marks 25
Microprocessors and Microcontrollers	35	30	15
Data Communications and Networks	32	24	15
Control Systems	38	27	22
Business Economics and Financial Analysis	27	22	19
Computer Organization and Operating System	32	25	18
Microprocessors and Microcontrollers Lab	15	15	23
Data Communications and Networks Lab	15	12	21
Advanced English Communication Skills Lab	12	8	23

His / Her attendance is 79.12 % and is Poor / Average / Good / Excellent.

His / Her Performance in internal tests is 78 % 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 & Technology  
Sheriguda(V), Ibrahimpatnam(M)  
R.R. Dist. Telangana - 501510

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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(IT-KGP), Ph.D., F.I.E., MISTE, MISHMT,  
Principal

Dated: 23.04.2021

To, P. Manikanta s/o. Srinivas Reddy

B.TECH (ECE)

17X31A04A1

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 IV B Tech I Sem during this academic year 2018-19.

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 a **minimum of 75% attendance**. Otherwise he / she will be **DETAINED** in End Examinations and has to repeat the IV B.Tech I Sem class work to fulfill the academic regulation on attendance. You are requested to advise him / her accordingly for the improvement and fulfillment of University Norms. Feel free to contact Concern HOD / PRINCIPAL.

Subject	Attendance as on 17-04-2021 Number of classes		I - Mid Term Examinations
	Held	Attended	Max Marks 25
Global Positioning System	11	8	24
optical communication	11	9	24
sensor and transducers	10	10	20
Major project	18	17	24

His / Her attendance is 88 % and is Poor / Average / Good / Excellent

His / Her Performance in internal tests is 89 % 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

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Sri Indu Institute of Engineering & Tech  
Sheriguda (V), Ibrahimpatnam (M),  
R. R. Dist. Telangana - 501510





# SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

(Formerly RVR Institute of Engineering & Technology)

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Recognized under 2(f) of UGC Act 1956.

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

Ph.No:-9347187999, 8096951507, 9640590999. E-mail: principal.sriet@gmail.com

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### MAJOR PROJECT REVIEW-1

Academic Year: 2020-21

Year : IV

Sem : II

Branch : ECE

Section : A

S.NO	Hall ticket NO	Name of the Student	Project Title	Dress Code (5M)	Present ation (5M)	Project (5M)	Viva (10M)	Total (25M)
1	17X31A0402	AENUGU NAVYA	Design of advanced plc and place robot using Bluetooth communication	5	3	4	10	22
2	17X31A0403	ANNAPUREDDY SHIVANI	Implementation of health monitoring system using IOT	5	4	5	8	22
3	17X31A0404	ANNEM UMESH CHANDRA	Implementation of health monitoring system using IOT	4	4	5	8	21
4	17X31A0406	BALUSA SAI LAKSHMI	Implementation of health monitoring system using IOT	5	3	4	10	22
5	17X31A0407	BANDA SUSHMITHA	Python based advanced drowsy driver detection using machine learning algorithm	5	4	5	10	24
6	17X31A0408	BANDA VINITHA	Design & implementation of IOT based smart helmet	4	3	5	10	22

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

			for road accident detection					
7	17X31A0409	BEECHANI NANDA KISHORE	Python based advanced drowsy driver detection using machine learning algorithm	5	3	4	8	20
8	17X31A0411	BOLLOJU INDHU	Advanced vehicle tracking and controlling system using GSM and GPS	5	4	3	10	22
9	17X31A0412	BOREM NIKITH REDDY	Implementation of health monitoring system using IOT	5	3	4	10	22
10	17X31A0415	BURUGU KAVYA	Python based advanced drowsy driver detection using machine learning algorithm	5	4	5	10	24
11	17X31A0417	CHILLUKURI RAKESH REDDY	Design & implementation of IOT based smart helmet for road accident detection	5	4	5	10	24
12	17X31A0418	CH MANIKANTA SWAMY	Advanced vehicle tracking and controlling system using GSM and GPS	5	3	4	8	20
13	17X31A0419	CHITTANOORI RAVALIKA	Design & implementation of IOT based smart helmet for road accident detection	5	4	4	8	21
14	17X31A0420	CHITTINI SHASHIDHAR	Advanced vehicle tracking and controlling system using GSM and GPS	5	4	5	7	21
15	17X31A0422	DANTHURI LAXMI PRASANNA	Smart wireless OTP based advanced locking and unlocking system	5	4	4	7	22
16	17X31A0423	DASOJU MOUNIKA	Smart wireless OTP based advanced locking and unlocking system	5	3	4	8	20
17	17X31A0424	Uday	Implementation of advanced traffic management system	5	4	3	10	22





30	17X31A0437	GOSHIKONDA SAIVARDHAN	Implementation of advanced traffic management system	5	3	24	8	20
31	17X31A0438	GOVINDH SANDEEP	Automatic vehicle speed controlling system in smart zones	5	3	4	9	21
32	17X31A0440	GULLA SRAVYA	UVC based advanced hospital sanitization robot using android application	5	3	4	9	23
33	17X31A0442	GUNDA SAI KIRAN	Implementation of iot based smart flood monitoring and alerting system	5	4	5	10	24
34	17X31A0443	GUNTOJU DURGASRI	UVC based advanced hospital sanitization robot using android application	5	3	4	7	19
35	17X31A0444	GUNTURI SAI HARSHITHA	IOT based advanced weather monitoring system	5	3	4	9	23
36	17X31A0445	HANMESH BHAIKADI	IOT based advanced weather monitoring system	5	3	4	9	21
37	17X31A0446	JARUGULLA VENU MADHAVI	Automatic vehicle speed controlling system in smart zones	5	4	5	10	24
38	17X31A0447	JITTA TEJASRI	Advanced vehicle tracking and controlling system using GSM and GPS	5	3	4	10	22
39	17X31A0448	JULURU KRISHNA GOUTHAM	Automatic vehicle speed controlling system in smart zones	5	4	4	8	21
40	17X31A0450	KAJJAM MANASVNI	Design of voice based doctor prescription and tablet reminder system of aged people	5	3	4	10	22
41	17PTIA0413	KATTA SABITHA	Automatic vehicle speed controlling system in smart zones	5	4	4	8	21



42	16RCLA0432	P. SATYA NAVEEN	Implementation of iot based smart flood monitoring and alerting system	5	5	5	4	19
43	17BE1A0407	CH. LAKSHMI PRASANNA	Design of advanced pic and place robot using bluetooth communication	5	3	4	10	22
44	17BE1A0413	GOLLA ANJANEYULU	Python based advanced drowsy driver detection using machine learning algorithm	5	3	4	8	20
45	17BE1A0434	RAGI ANUSHA	Implementation of iot based smart flood monitoring and alerting system	5	4	4	10	23
46	17BE1A0438	T.DIVYA	Design of advanced pic and place robot using bluetooth communication	5	4	4	8	21
47	17BE1A0440	V.UDAY KUMAR	Design of advanced pic and place robot using bluetooth communication	5	3	4	6	18
48	17BE1A0444	D. PAVANI	Implementation of iot based smart flood monitoring and alerting system	5	3	4	9	21

  
Panel Member -1

  
Panel Member -2

  
Project Co-Ordinator

  
HOD  


PRINCIPAL  
Sri Indu Institute of Engineering & Tech.  
Sri Gonda(V), Toranapuram-601 510  
S.P. Road, Telangana



## SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

(Formerly RVR Institute of Engineering & Technology)  
Approved by AICTE, New Delhi and Affiliated to JNTUH.

Recognized under 2(f) of UGC Act 1956.  
Sheriguda (V), Ibrahimpatnam (M), Hyderabad, R.R. Dist., Telangana-501 510.  
Ph.No:9347187999, 8096951507, 9640590999. E-mail: principalstier@gmail.com

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### MAJOR PROJECT REVIEW-2

Academic Year: 2020-21

Year : IV

Sem : II

Branch : ECE

Section : A

S.NO	Hall ticket NO	Name of the Student	Project Title	Dress Code (5M)	Present action (5M)	Project (5M)	Viva (10M)	Total (25M)
1	17X31A0402	AENUGU NAVVA	Design of advanced pic and place robot using Bluetooth communication	5	4	5	10	24
2	17X31A0403	ANNAPUREDDY SHIVANI	Implementation of health monitoring system using IOT	5	3	4	10	22
3	17X31A0404	ANNEM UMESH CHANDRA	Implementation of health monitoring system using IOT	5	4	4	10	23
4	17X31A0406	BALUSA SAI LAKSHMI	Implementation of health monitoring system using IOT	5	4	5	10	24
5	17X31A0407	BANDA SUSHMITHA	Python based advanced drowsy driver detection using machine learning algorithm	5	3	4	10	22
6	17X31A0408	BANDA VINITHA	Design & Implementation of IOT based smart helmet for road accident detection	5	4	5	10	24

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



7	17X31A0409	BEECHANI NANDA KISHORE	Python based advanced drowsy driver detection using machine learning algorithm	5	3	4	10	22
8	17X31A0411	BOLLOJU INDHU	Advanced vehicle tracking and controlling system using GSM and GPS	5	3	4	8	20
9	17X31A0412	BOREM NIKITH REDDY	Implementation of health monitoring system using IOT	5	4	5	10	24
10	17X31A0415	BURUGU KAVYA	Python based advanced drowsy driver detection using machine learning algorithm	5	3	4	8	20
11	17X31A0417	CHILUKURI RAKESH REDDY	Design & implementation of IOT based smart helmet for road accident detection	5	4	3	8	20
12	17X31A0418	CH MANIKANTA SWAMY	Advanced vehicle tracking and controlling system using GSM and GPS	5	3	3	9	20
13	17X31A0419	CHITTANOORI RAVALUKA	Design & implementation of IOT based smart helmet for road accident detection	5	4	4	10	23
14	17X31A0420	CHITTINI SHASHIDHAR	Advanced vehicle tracking and controlling system using GSM and GPS	5	3	4	9	21
15	17X31A0422	DANTHURI LAXMI PRASANNA	Smart wireless OTP based advanced locking and unlocking system	5	4	5	10	24
16	17X31A0423	DASOJU MOUNIKA	Smart wireless OTP based advanced locking and unlocking system	5	4	3	8	20
17	17X31A0424	Uday	Implementation of advanced traffic management system	5	4	5	10	24
18	17X31A0425	DHARAVATH NIKHIL	Smart wireless OTP based advanced locking and unlocking system	5	3	3	7	18
19	17X31A0426	DOGIPARTHY ANAND	UVC based advanced hospital sanitization robot using	5	4	5	10	24

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Sri Indu Institute of Engineering & Technology,  
Sri Indu Nagar, Ibrahimpatnam(M),  
Srienguda(V), Ibrahimpatnam(M),  
R R Dist, Telangana -501 510

			android application					
20	17X31A0427	DONGARI SHIRISHA	Implementation of advanced traffic management system	5	4	5	10	24
21	17X31A0428	DORNALA CHAITANYA	Implementation of advanced traffic management system	5	3	4	10	22
22	17X31A0429	DUGGEMPUDI ABHINAVA	UVC based advanced hospital sanitization robot using android application	5	4	4	10	23
23	17X31A0430	DURGAPU ARAVIND GOUD	Design & implementation of IOT based smart helmet for road accident detection	5	4	5	10	24
24	17X31A0431	ENDLA KAVITHA	IOT based advanced weather monitoring system	5	3	4	8	20
25	17X31A0432	GADDI PAVAN KALYAN	Design of voice based doctor prescription and tablet reminder system of aged people	5	4	5	10	24
26	17X31A0433	GADE MAHANTHI LOHITHASA	Design of voice based doctor prescription and tablet reminder system of aged people	5	4	5	10	24
27	17X31A0434	GANGADI SHREYA	IOT based advanced weather monitoring system	5	4	3	10	22
28	17X31A0435	GILLA ANILA	Design of voice based doctor prescription and tablet reminder system of aged people	5	3	4	10	22
29	17X31A0436	GINIKUNTA VAMSHI	Smart wireless OTP based advanced locking and unlocking system	5	3	4	7	19
30	17X31A0437	GOSHIKONDA SAIVARDHAN	Implementation of advanced traffic management system	5	4	3	10	22
31	17X31A0438	GOVINDH SANDEEP	Automatic vehicle speed controlling system in smart zones	5	4	3	7	19



32	17X31A0440	GUJJA SRAVVA	UVC based advanced hospital sanitization robot using android application	5	4	4	10	23
33	17X31A0442	GUNDA SAI KIRAN	Implementation of iot based smart flood monitoring and alerting system	5	3	4	10	22
34	17X31A0443	GUNTOJU DURGASRI	UVC based advanced hospital sanitization robot using android application	5	3	3	10	21
35	17X31A0444	GUNTURI SAI HARSHITHA	IOT based advanced weather monitoring system	5	4	4	10	23
36	17X31A0445	HANMESH BHAIKADI	IOT based advanced weather monitoring system	5	4	4	10	23
37	17X31A0446	JARUGULLA VENU MADHAVI	Automatic vehicle speed controlling system in smart zones	5	3	4	10	22
38	17X31A0447	JITTA TEJASRI	Advanced vehicle tracking and controlling system using GSM and GPS	5	4	3	10	22
39	17X31A0448	JULURU KRISHNA GOUTHAM	Automatic vehicle speed controlling system in smart zones	5	4	3	7	19
40	17X31A0450	KAJJAM MANASVINI	Design of voice based doctor prescription and tablet reminder system of aged people	5	4	5	10	24
41	17PT1A0413	KATTA SABITHA	Automatic vehicle speed controlling system in smart zones	5	4	4	10	23
42	16RCL1A0432	P. SATYA NAVEEN	Implementation of iot based smart flood monitoring and alerting system	5	3	3	10	21
43	17BE1A0407	CH. LAKSHMI PRASANNA	Design of advanced pic and place robot using bluetooth communication	5	4	5	10	24
44	17BE1A0413	GOLLA ANJANEYULU	Python based advanced drowsy driver detection using	5	3	3	10	20

Principal  
 Sr. In-charge, Engineering  
 Sreevidya(V), Ibrahimpanam  
 P. R. Dist. Telangana - 501 510

			machine learning algorithm					
45	17BE1A0434	RAGI ANUSHA	Implementation of iot based smart flood monitoring and alerting system	5	3	3	10	21
46	17BE1A0438	T.DIVYA	Design of advanced pic and place robot using bluetooth communication	5	4	4	10	23
47	17BE1A0440	V.UDAY KUMAR	Design of advanced pic and place robot using bluetooth communication	5	3	3	7	18
48	17BE1A0444	D. PAVANI	Implementation of iot based smart flood monitoring and alerting system	5	4	4	10	23

Panel Member -1

Panel Member -2

Project Co-Ordinator

Handwritten signature and date: 16/6/21

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





# SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

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

Ph.No:9347187999, 8096951507, 9640590999. E-mail: principaliec@gmail.com

## MINI-PROJECT EVALUATION

Academic Year: 2020-21

Year: IV

Sem: I

Branch: ECE

Section: A

S.No	Hall ticket No	Name Of the Student	REVIEW-I				REVIEW-II				AVERAGE
			Kno wledg e(20 M)	Presen tation (20M)	Viva (10M)	Total (A)	Knowled ge(20M)	Present ation (20M)	Viva (10M)	Total (B)	
1	17X31A0402	AENUGU NAVYA	20	20	9	44	20	19	7	46	45
2	17X31A0403	ANNAPUREDDY SHIVANI	20	20	6	46	20	20	6	46	46
3	17X31A0404	A UMESH CHANDRA	19	19	5	43	20	19	6	45	44
4	17X31A0406	BALUSA SAI LAKSHMI	20	20	7	47	20	19	6	45	46
5	17X31A0407	BANDA SUSHMITHA	20	19	8	47	20	20	7	47	47
6	17X31A0408	BANDA VINITHA	20	20	8	48	20	19	7	46	47
7	17X31A0409	B NANDA KISHORE	20	20	7	47	20	20	5	45	46
8	17X31A0411	BOLLOJU INDHU	20	19	7	46	19	19	6	44	45
9	17X31A0412	BOREM NIKITH REDDY	19	19	9	47	20	20	8	48	48
10	17X31A0415	BURUGU KAVYA	20	19	9	48	19	19	6	44	46



11	17X31A0417	CI RAKESH REDDY	20	20	6	46	19	19	8	46	46
12	17X31A0418	CH MANIKANTA SWAMY	20	00	7	47	19	18	8	45	45
13	17X31A0419	CHITTANOO RI RAVALIKA	19	19	5	42	19	19	7	45	44
14	17X31A0420	CHITTINNI SHASHIDHAR	18	18	6	42	19	18	7	44	43
15	17X31A0422	DANTHURI LAXMI PRASANNA	17	18	6	41	19	18	6	43	42
16	17X31A0423	DASOJU MOUNIKA	20	20	5	45	19	19	7	45	45
17	17X31A0424	Uday	20	20	6	46	20	20	6	46	46
18	17X31A0425	DHARAVATH NIKHIL	19	18	6	43	20	20	5	45	44
19	17X31A0426	DOGIPARTHY ANAND	19	18	5	42	18	18	8	44	43
20	17X31A0427	DONGARI SHIRISHA	20	20	6	46	19	19	8	46	46
21	17X31A0428	DORNALA CHAITANYA	20	20	7	47	19	19	9	47	47
22	17X31A0429	DUGGEMPUDI ABHINAYA	20	20	8	48	20	20	8	48	48
23	17X31A0430	DURGAPU ARAVIND GOUD	19	19	8	46	20	20	4	44	45
24	17X31A0431	ENDLA KAVITHA	19	19	8	46	20	20	6	46	46
25	17X31A0432	GADDI PAVAN KALYAN	20	20	7	47	20	19	8	47	47
26	17X31A0433	GADE MAHANTHI LOHITHASA	19	20	8	47	20	20	8	48	48
27	17X31A0434	GANGADI SHREYA	20	20	9	49	20	20	8	48	49
28	17X31A0435	GILLA ANILA	19	19	8	46	19	19	8	46	46
29	17X31A0436	GINIKUNTA VAMSHI	19	18	8	45	20	20	5	45	45
30	17X31A0437	GOSHIKONDA SAIWARDHAN	18	18	8	44	20	20	4	44	44
31	17X31A0438	GOVINDH SANDEEP	17	18	5	40	17	18	5	40	40
32	17X31A0440	GULLA SRAVYA	19	18	5	42	18	18	8	44	43
33	17X31A0442	GUNDA SAI KIRAN	20	20	5	46	20	20	02	42	44
34	17X31A0443	GUNTOJU DURGASRI	A	A	A	A	A	A	A	A	A
35	17X31A0444	GUNTURI SAI HARSHITHA	20	20	5	45	20	20	7	47	46
36	17X31A0445	HANMESH BHAIKADI	20	20	6	46	20	20	8	48	47
37	17X31A0446	JARUGULA VENU MADHAVI	20	20	8	48	20	20	8	48	48
38	17X31A0447	JITTA TEASRI	19	18	8	45	20	20	7	47	46



39	17X31A0448	JULURU KRISHNA GOUTHAM	20	20	5	45	20	19	6	45	45
40	17X31A0450	KAJIAM MANASVINI	20	20	5	45	20	20	7	47	46
41	17PT1A0413	KATTA SABITHA	20	19	7	46	20	20	8	48	47
42	16RC1A0432	P. SATYA NAVEEN	20	19	7	46	19	19	6	44	45
43	17BE1A0407	CH. LAKSHMI PRASANNA	19	19	6	44	18	18	8	44	44
44	17BE1A0413	GOLLA ANJANEYULU	19	19	7	45	19	18	8	45	45
45	17BE1A0434	RAGI ANUSHA	20	20	6	46	20	20	6	46	46
46	17BE1A0438	T. DIVYA	19	19	4	42	20	19	5	49	43
47	17BE1A0440	V.UDAY KUMAR	18	18	4	40	19	19	6	44	42
48	17BE1A0444	D. PAVANI	18	18	6	42	20	20	6	46	44

Panel Member -1  


Panel Member -2  


Project Co-Ordinator  


HOD  


PRINCIPAL  
Sri Indu Institute of Engineering & Tech.  
Vijayawada, Ibrahimpatnam(MM)  
Dist: West Godavari -501 510



# SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

A.Y : 2020-21

IV ECE-A SEMINAR MARKS

SEM : I

S.NO	Roll No	Name	Topic, Content and Work (20M)	Knowledge & Participation (20M)	Presentation (30M)	Dress Code (10M)	Viva (20M)	Total (100M)
1	17X31A0402	AENUGU NAVYA	17	18	28	9	17	89
2	17X31A0403	ANNAPUREDDY SHIVANI	18	19	27	8	16	88
3	17X31A0404	ANNEM UMESH CHANDRA	17	16	30	8	18	89
4	17X31A0406	BALISA SAI LAKSHMI	19	18	26	9	18	90
5	17X31A0407	BANDA SUSHMITHA	18	19	26	10	19	92
6	17X31A0408	BANDA VINITHA	19	18	27	8	18	90
7	17X31A0409	BEECHANI NANDA KISHORE	18	18	27	9	16	88
8	17X31A0411	BOLLOJU INDHU	19	19	28	8	18	92
9	17X31A0412	BOREM NIKITH REDDY	17	17	27	10	19	90
10	17X31A0415	BURRUGU KAVYA	18	16	28	10	19	91
11	17X31A0417	CHILUKURI RAKESH REDDY	18	18	29	8	16	89
12	17X31A0418	CH MANIKANTA SWAMY	19	15	29	9	17	89
13	17X31A0419	CHITTANOORI RAVALIKA	18	18	30	8	18	92
14	17X31A0420	CHITTINNI SHASHIDHAR	18	18	26	9	17	88
15	17X31A0422	DANTHURI LAXMI PRASANNA	17	19	24	9	17	88
16	17X31A0423	DASOJU MOUNIKA	18	17	27	9	17	88
17	17X31A0424	Uday	19	18	29	8	16	89
18	17X31A0425	DHARAVATH NIKHIL	15	18	24	8	13	78
19	17X31A0426	DOGIPARTHY ANAND	17	18	28	8	19	90
20	17X31A0427	DONGARI SHIRISHA	18	19	26	8	19	90
21	17X31A0428	DORNALA CHAITANYA	19	18	24	10	18	89
22	17X31A0429	DUGGEMPUDI ABHINAVA	18	17	27	9	18	89
23	17X31A0430	DURGAPU ARAVIND GOUD	19	18	27	8	17	89
24	17X31A0431	ENDLA KAVITHA	18	18	27	8	18	89



S.NO	Roll No	Name	Topic, Content and Work (20M)	Knowledge & Participation (20M)	Presentation (30M)	Dress Code (10M)	Viva (20M)	Total (100M)
25	17X31A0432	GADDI PAVAN KALYAN	20	19	25	8	18	90
26	17X31A0433	GADDE MAHAN'THI LOHITHASA	20	18	27	9	19	93
27	17X31A0434	GANGADI SHREYA	19	17	24	10	20	91
28	17X31A0435	GILLA ANILA	20	18	25	9	18	90
29	17X31A0436	GINIKUNTA VAMSHI	20	17	25	8	20	90
30	17X31A0437	GOSHIKONDA SAIVARDHAN	19	18	23	9	20	90
31	17X31A0438	GOVINDH SANDEEP	18	16	27	09	19	89
32	17X31A0440	GUJJA SRAVYA	20	17	26	08	19	90
33	17X31A0442	GUNDA SAI KIRAN	20	16	26	09	19	90
34	17X31A0443	GUNTOJU DURGASRI	19 A	A	A	A	A	A
35	17X31A0444	GUNTURI SAI HARSHITHA	18	19	28	07	18	90
36	17X31A0445	HANMESH BHAIKADI	17	18	27	08	17	89
37	17X31A0446	JARUGULLA VENU MADHAVI	19	19	27	09	16	90
38	17X31A0447	JITTA TEJASRI	20	19	26	09	18	92
39	17X31A0448	JULURU KRISHNA GOUTHAM	20	20	25	10	16	91
40	17X31A0450	KAJJAM MANASVNI	19	18	25	09	19	90
41	17PT1A0413	KATTA SABITHA	20	19	25	08	17	89
42	16RC1A0432	P. SATYA NAVEEN	18	20	25	07	19	89
43	17BE1A0407	CH. LAKSHMI PRASANNA	19	17	26	08	19	89
44	17BE1A0413	GOLLA ANJANEYULU	17	18	23	09	18	85
45	17BE1A0434	RAGI ANUSHA	20	19	26	09	16	90
46	17BE1A0438	T.DIVYA	20	18	23	09	19	89
47	17BE1A0440	V.UDAY KUMAR	19	16	25	08	15	83
48	17BE1A0444	D. PAVANI	18	19	24	09	19	89

  
Panel Member-1

  
Panel Member-2

  
Co-Ordinator

  
HQB