1.1.1: The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment.

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S.No	Description
1	Institute Academic Committee Minutes
2	Department Academic committee minutes
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8	Department wise time tables
9	Syllabus Completion
10	MID Examination Circulars and Timetables
11	Semester Examination Timetables
12	External Project Schedule

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
GUNTHAPALLY (V)
ABDULLAPURMET (M)
R.R. DISTRICT.

PRINCIPAL
PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recg. By Govt. of T.S & Affiliated to JNTUH, Hyderabad)
NAAC "B++" Accredited Institute
Gunthapally (V), Abdullapurmet(M), RR Dist, Near Ramoji Film City, Hyderabad -501512.
www.aietg.ac.in email: principal.avanthi@gmail.com

AVIH/AC/2021-2022/01 Date: 23-08-2021

CIRCULAR

This is to inform all the staff members that Institute Academic Committee will be meeting on 25th August 2021 at 02.00 PM in the Principal's chamber to discuss the following agenda. All members are requested to attend the meeting without fail.

Agenda:

1. Preparation of Academic Calendar for the A.Y 2021-22
2. Preparation of Faculty workloads.
3. Preparation of Semester Time Tables.
4. Discussions on utilization of Library Resources.
5. Certificate Courses/Internship Courses.
6. Discussions on Training and Placements.
7. Sports Activities.
8. Discussions on FFC.
9. Discussions on AISHE.
10. Discussion on setting of level for CO & PO attainment.
11. Discussions on Research Committees.
12. Review on the feedback obtained from various stake holders.
13. Any other Issues.

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Copy to:

1. All HODs
2. IQAC coordinator
3. All the Committee Members

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MINUTES OF THE INSTITUTE ACADEMIC COMMITTEE

The Institute Academic Committee meeting was held on 25 August 2021 at 02.00PM in Principal's chamber. The principal welcomed the staff and briefed on the above objective of the Institute Academic Committee meeting. The principal started the deliberations by discussing the Academic issues and emphasized the need to concentrate on new University regulations.

Item-1:

- Preparation of Academic of calendar for A.Y. 2021-2022

Resolution:

- Swamy Rao Kulakarni, IQAC Coordinator prepared the Academic calendar based on the calendar provided by the University and issued it to the Department Heads of the college.
- Department wise Academic calendars were prepared by the HODs of every department based on the calendar and submitted it to principal for further approval.

Item-2:

- Preparation of Faculty workloads

Resolution:

- Department wise faculty workloads were prepared by the HODs of every department based on the curriculum and submitted it to principal for approval.

Item-3:

- Preparation of Semester Timetables

Resolution:

- Department wise semester Timetables were prepared by the HODs of every department based on the curriculum and submitted it to principal for approval.

Item-4:

- Discussions on utilization of Library Resources

Resolution:

- HODs of all the departments instructed the students to utilize Library Resources and advised the Librarian to purchase books if necessary and make them available for students and faculty members.

Item 5:

- Certificate Courses/Internship Courses

Resolutions:

- The members suggested that every student should complete two internships. One during summer vacation and the other during the semester break. It is also advised to undertake internships from MOU organizations.

Item-6:

- Training and Placements

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Resolutions:

- TPO has to submit the training program schedules for each department and the department HODs should include the given schedule in the upcoming semester time tables and send it to principal for approval.

Item-7:

- Sports Activities

Resolutions:

- The Sports Schedule should be submitted by the Physical Director to the entire department HODs for sports hour in the timetable.

Item-8:

- Discussions on FFC

Resolutions:

- Detailed information on different parameters such as student's data, faculty data, infrastructural information, financial information etc., should be formulated and updated as per the requirements of FFC (Fact Finding Committee).

Item-9:

- Discussions on AISHE

Resolutions:

- Detailed information on different parameters such as student's data, faculty information, infrastructural information, financial related information etc should be formulated and updated as required by AISHE.

Item-10:

- Discussion on setting of level for CO & PO attainment.

Resolutions:

- The staff members have proposed to keep 50% marks as CO benchmark for Internal examinations and 26 marks out of 75 for external Examinations.
- It was approved to follow below thumb rule to calculate attainment.
- 50 to 60% - level 1
- 60% to 70% - level 2
- 70% to 80 % - level 3

Item-11:

- Discussions on Research committees

Resolutions:

- Research committees should be formed to look over and maintain a record for the proceedings of the research activities happening in the Institution.

Item-12:

- Any other Issues

Resolutions:

- The IQAC coordinator instructed all the departments to maintain updated Stock registers, Maintenance Registers, Complaint Registers, etc of all the laboratories duly verified by the committee.

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- It was also resolved after the discussion that all the departments should follow IQAC Audit Action Taken Report.
- The IQAC coordinator instructed all the departments to maintain updated Stock registers, Maintenance Registers, Complaint Registers, etc of all the laboratories duly verified by the committee.

- IQAC coordinator informed all the faculty to submit the AQAR for the academic year 2021-22.

Attendance sheet:

Sl.No	Name	Designation	Signature
1	Dr.G. Ramachandra Reddy	Principal (Convenor)	
2	Y. Jayapradha	Director (Member)	
3	Swamy Rao Kulakarni	IQAC Coordinator (Member)	
4	Dr.S. Kishore Reddy	HOD, ECE (coordinator)	
5	Dr. ShakeerBasha	HOD, CSE (Member)	
6	Dr.Y. Ramesh Babu	HOD, MECH (Member r)	
7	Dr.T. Kranthi Kumar	HOD, EEE (Member)	
8	S. Rajendar	HOD, CSM,CSD (Member)	
9	K. Nagaraju	HOD, H&S (Member)	
10	E. Prasanna	EEE (Member)	
11	Dr. N. Ramana Reddy	MBA (Member)	
12	P. Krishna Murthy Naidu	Librarian (Member)	
13	Syed Mahaboobvali	PD (Member)	

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS NGINEERING

Date: 28/08/2021

CIRCULAR

This is to inform you that the Department Academic Committee (DAC) meeting will be held on 03rd September 2021 at 11:00AM in the principal chamber. All members are requested attend the meeting without fail.

Agenda:

1. Report of department progress for the academic year 2020-21.
2. Workload and timetable preparation
3. Industry MOUs
4. Students' academic performance and placements
5. Suggestions on Value added courses.
6. Student seminars and workshops
7. Any other relevant point

HOD-EEE
Head of the Department
Electrical & Electronics Engineering
Avanthi Institute of Engineering & Technology
Gunthapally (Vill), Abdullapur Met (Mdl),
Ranga Reddy District.

Copy to:

1. Principal Office
2. DAC members
3. Department file

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Minutes of the Meeting:

The Institute Academic Committee meeting was held on 03/09/2021at 11.00AM in Principal's chamber and discussed on

Item-1:

Report on Department progress for the academic year 2020-21.

Resolution:

The DAC members evaluated the results of the academic year 2020-21. All the faculty members who met the 90 percent or more were appreciated by the committee for outstanding achievement. Those who failed to achieve the percentage were cautioned by the committee and were asked to step up their efforts.

Item-2:

Workload and timetable preparation.

Resolution:

Workloads and Timetables for the current semester is prepared.

Item-3:

Industry MOUs.

Resolution:

The DAC members proposed to sign MOU with conscience technologies/ Manac infotech Pvt Ltd regarding Internships, projects, Workshops and Value-added courses.

Item-4:

Students' academic performance and placements.

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Resolution:

The members of the DAC appreciated the students who were hired by major multinational corporations. They advised to concentrate on the present fourth year students to increase placements in this view committee decided to sign MOU with FACE Academy for CRT.

Item-5:

Suggestions on Value added courses.

Resolution:

The committee was of the opinion that add-on courses and various certification programs will enable students to confidently face the challenges of the changing job market. Hence, it is advised that training in add-on courses should be made compulsory for all the students.

Item-6:

Student seminars and workshops.

Resolution:

The DAC members suggested conducting various seminars and workshops for students to develop their technical skills.

Item-7:

Any other relevant point.

Resolution:

The principal greeted everyone and suggested the faculty to improve the publications in reputed journals and also discussed the importance of online student feedback system which helps continuously for improving teaching standards.

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www.aietg.ac.in email: principal.avanthi@gmail.com

List of DAC members attended:

S.No.	Name of the Faculty	Designation	Role	Signature
1	Dr. G. Ramachandra Reddy	Principal	Chair Person	
2	Dr. T. Kranti Kumar	HOD	Member	
3	E. Prasanna	Assistant Professor	Academic Member	
4	M. Ragini	Assistant Professor	Academic Member	
5	K. Chandrasekhar	Assistant Professor	Academic Member	
6	Dr. M. Surender Reddy	Assistant Professor	Academic Member	
7	Dr. A. Kamal	Assistant Professor	Academic Member	
8	M. Shankar	Assistant Professor	Academic Member	
9	M. Satish Kumar	Assistant Professor	Academic Member	
10	S. Srikanth Reddy	Assistant Professor	Academic Member	
11	Dr. Kannan Ganapathy	Assistant Professor	Academic Member	
12	B. Srikanth	Assistant Professor	Academic Member	
13	U. Ganesh	Assistant Professor	Academic Member	
14	K. Madhavi	Assistant Professor	Academic Member	
15	D.Nageshwar Rao	Assistant Professor	Academic Member	

HOD-EEE

Head of the Department
Electrical & Electronics Engineering
Avanthi Institute of Engineering & Technology
Gunthapally (VIII), Abdullapur Met (Mdl),
Ranga Reddy District.

PRINCIPAL
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2021-22

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

I SEM

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

II SEM

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

06/12/21

REGISTRAR

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2021-22

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

I SEM

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

II SEM

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

REGISTRAR 11/10/21

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Academic Calendar 2021-22

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

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	**06.092021**	
2	1st Spell of Instructions (including Dussehra Recess)	06.09.2021	06.11.2021 (9 Weeks)
3	Dussehra Recess	11.10.2021	16.10.2021 (1 Week)
4	First Mid Term Examinations	08.11.2021	13.11.2021 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	20.11.2021	
6	2nd Spell of Instructions	15.11.2021	08.01.2022 (8 Weeks)
7	Second Mid Term Examinations	10.01.2022	18.01.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	19.01.2022	25.01.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	25.01.2022	
10	End Semester Examinations	27.01.2022	09.02.2022

II SEM

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

REGISTRAR
27/1/21

27/01/21

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2021-22

MBA/MCA I YEAR I & II SEMESTERS

I SEM

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

II SEM

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

REGISTRAR

PRINCIPAL

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2021-22

MBA/MCA II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	**08.11.2021**	
2	1st Spell of Instructions	08.11.2021	31.12.2021 (8 Weeks)
3	First Mid Term Examinations	03.01.2022	08.01.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	19.01.2022	
5	2nd Spell of Instructions	10.01.2022	05.03.2022 (8 Weeks)
6	Second Mid Term Examinations	07.03.2022	12.03.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	14.03.2022	19.03.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	19.03.2022	
9	End Semester Examinations	21.03.2022	01.04.2022 (2 Weeks)

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	**04.04.2022**	
2	1st Spell of Instructions (including Summer Vacation)	04.04.2022	11.06.2022 (10 Weeks)
3	Summer Vacation	09.05.2022	21.05.2022 (2 Weeks)
4	First Mid Term Examinations	13.06.2022	18.06.2022 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	25.06.2022	
6	2nd Spell of Instructions	20.06.2022	13.08.2022 (8 Weeks)
7	Second Mid Term Examinations	16.08.2022	22.08.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	23.08.2022	27.08.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	27.08.2022	
10	End Semester Examinations	29.08.2022	10.09.2022 (2 Weeks)

REGISTRAR

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2021-22

M.Tech./ M.Pharm. I YEAR I & II SEMESTERS

I SEM

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

II SEM

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

12/11/21

REGISTRAR

PRINCIPAL

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2021-22

M.Tech./ M.Pharm. II YEAR I & II SEMESTERS

I SEM

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

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester (Project Work Continuation) (13.12.2021 to 04.04.2022 – 16 weeks)	**04.04.2022**	
2	Project Work Review -II (Phase-I)	04.04.2022	09.04.2022 (1 Week)
3	** Project Work Review -II (Phase-II)	26.04.2022	28.04.2022 (3 days)
4	Last date for submission of PRC-II marks	02.05.2022	
5	Project Work Review -III (Phase –I) (11.04.2022 to 03.09.2022 – 21 Weeks)	05.09.2022	10.09.2022
6	Last date for submission of Project Work Review-III (Phase-I) Marks	17.09.2022	
7	* Date of eligibility of thesis submission	17.09.2022	
8	Submission of Thesis and Project Viva –Voce Examination (PRC-III Phase-I)	--	
9	** Project Work Review – III (Phase –II) (12.09.2022 to 10.12.2022 – 13 Weeks)	12.12.2022	14.12.2022 (3 days)
10	Last date for submission of Project Work Review –III (Phase-II) Marks	15.12.2022	
11	Submission of Thesis and Project Viva –Voce Examination (Phase-II) follows	---	

* After completion of 40 weeks from the date of approval of project work proposal and subject to approval of Project Work Review-III.

** Phase-II will be conducted only for unsuccessful students in Phase –I

Note: 1 The unsuccessful students in Project Work Review-II (Phase-II) shall appear for Project Work Review-II at the time of Project Work Review-III. These students shall reappear for Project Work Review-III in the next academic year at the time of Project Work Review -I only after completion of Project Work Review -II, and then Project Work Review -III follows.

2 The Project Viva-Voce External examination Marks must be submitted on the day of examination to the University.

REGISTRAR

06/9/12

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INSTITUTION ACADEMIC CALENDAR FOR THE ACADEMIC YEAR 2021-22

I[ST] -SEM

ACTIVITY	DATE
IQAC MEETING -I	04-09-2021
COMMENCEMENT OF I SEM CLASS WORK III B TECH	06-09-2021
I[st] SPELL OF INSTRUCTIONS III B TECH	06-09-2021
COMMENCEMENT OF I SEM CLASS WORK IV B TECH	06-09-2021
I[st] SPELL OF INSTRUCTIONS IV B TECH	06-09-2021
CRT TRAINING FOR IV B TECH	
ENGINEERS DAY CELEBRATIONS	15-09-2021
PLANNING TO ORGANIZE WORKSHOP ON PLACEMENT ELIGIBILITY TEST	23-09-2021 TO 29-09-2021
MAHATMA GANDHI JAYANTHI HOLIDAY	02-10-2021
BATHUKAMMA STARTING DAY HOLIDAY	06-10-2021
PLANNING TO ORGANIZE WORKSHOP ON SOFT SKILLS TRAINING	04-10-2021 TO 09-10-2021
DUSSEHRA HOLIDAYS	11-10-2021 to 16-10-2021
COMMENCEMENT OF I SEM CLASS WORK II B TECH	18-10-2021
I[st] SPELL OF INSTRUCTIONS II B TECH	18-10-2021
EID MILADUN NABI HOLIDAY	19-10-2021
DEEPAVALI HOLIDAY	04-11-2021
I[st] MID EXAMINATIONS III B TECH	08-11-2021
I[st] MID EXAMINATIONS IV B TECH	08-11-2021
COMMENCEMENT OF I SEM CLASS WORK II MBA	08-11-2021
I[st] SPELL OF INSTRUCTIONS II MBA	08-11-2021

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COMMENCEMENT OF I SEM CLASS WORK II M TECH	09-11-2021
Ist SPELL OF INSTRUCTIONS II M TECH	09-11-2021
PREPARATION OF PROJECT WORK PROPOSALS II M TECH	09-11-2021
PLANNING TO CONDUCT INTERNSHIP TRAINING PROGRAM FOR III B TECH	15-11-2021 TO 14-12-2021
IInd SPELL OF INSTRUCTIONS III B TECH	15-11-2021
IInd SPELL OF INSTRUCTIONS IV B TECH	15-11-2021
COMMENCEMENT OF I SEM CLASS WORK I M TECH	15-11-2021
Ist SPELL OF INSTRUCTIONSI M TECH	15-11-2021
GURU NANAK JAYANTHI HOLIDAY	19-11-2021
PLANNING TO ORGANIZE ORIENTATION DAY	22-11-2021
PLANNING TO ORGANIZE WORKSHOP ON AWS	25-11-2021 TO 01-12-2021
PROJECT REVIEW - I FOR II M TECH	06-12-2021
INDUCTION PROGRAM FOR I-YEAR B TECH	09-12-2021 to 18-12-2021
COMMENCEMENT OF I SEM CLASS WORK I MBA	09-12-2021
Ist SPELL OF INSTRUCTIONS I MBA	09-12-2021
PLANNING TO CONDUCT GUEST LECTURES FOR MBA	11-12-2021 TO 15-12-2021
Ist MID EXAMINATIONS II B TECH	13-12-2021
PLANNING ORGANIZE INDUSTRIAL VISITS FOR B TECH/MBA	15-12-2021 TO 20-12-2021
PLANNING TO CONDUCT ANTI RAGGING MEETING	20-12-2021
COMMENCEMENT OF I SEM CLASS WORK I B TECH	20-12-2021
Ist SPELL OF INSTRUCTIONS I B TECH	20-12-2021
IInd SPELL OF INSTRUCTIONS II B TECH	20-12-2021
PLANNING TO CONDUCT INTERNSHIP TRAINING PROGRAM FOR II B TECH	21-12-2021 TO 25-01-2022

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CHRISTMAS HOLIDAY	25-12-2021
NEW YEAR HOLIDAY	01-01-2022
PLANNING TO ORGANIZE FRESHERS' DAY	03-01-2022 TO 06-01-2022
Ist MID EXAMINATIONS II M TECH	03-01-2022
Ist MID EXAMINATIONS II MBA	03-01-2022
IInd MID EXAMINATIONS III B TECH	10-01-2022
IInd MID EXAMINATIONS IV B TECH	10-01-2022
Ist MID EXAMINATIONS I M TECH	10-01-2022
IInd SPELL OF INSTRUCTIONS II M TECH	10-01-2022
IInd SPELL OF INSTRUCTIONS II MBA	10-01-2022
SANKRANTHI/PONGAL HOLIDAYS	14-01-2022 to 16-01-2022
PREPARATION AND PRACTICLE EXAMINATIONS III B TECH	19-01-2022
PREPARATION AND PRACTICLE EXAMINATIONS IV B TECH	19-01-2022
IInd SPELL OF INSTRUCTIONS I M TECH	19-01-2022
PLANNING TO ORGANIZE SPORTS MEET	20-01-2022 TO 25-01-2022
REPUBLIC DAY CELEBRATIONS	26-01-2022
END SEMESTER EXAMINATIONS III B TECH	27-01-2022
END SEMESTER EXAMINATIONS IV B TECH	27-01-2022
Ist MID EXAMINATIONS I MBA	07-02-2022
Ist MID EXAMINATIONS I B TECH	14-02-2022
IInd MID EXAMINATIONS II B TECH	14-02-2022
IInd SPELL OF INSTRUCTIONS I MBA	14-02-2022
IInd SPELL OF INSTRUCTIONS I B TECH	21-02-2022
PREPARATION AND PRACTICLE EXAMINATIONS II B TECH	21-02-2022

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PLANNING TO CONDUCT GUEST LECTURES FOR II B TECH	21-02-2022 TO 23-02-2022
END SEMESTER EXAMINATIONS II B TECH	28-02-2022
MAHA SHIVARATHRI HOLIDAY	01-03-2022
IInd MID EXAMINATIONS II M TECH	07-03-2022
IInd MID EXAMINATIONS II MBA	07-03-2022
PLANNING TO CONDUCT WOMENS DAY CELEBRATIONS	08-03-2022
ANTI DRUG AWARENESS PROGRAM BY NSS	09-03-2022
PREPARATION AND PRACTICLE EXAMINATIONS II M TECH	14-03-2022
PREPARATION AND PRACTICLE EXAMINATIONS II MBA	14-03-2022
IInd MID EXAMINATIONS I MTECH	16-03-2022
HOLI HOLIDAY	18-03-2022
END SEMESTER EXAMINATIONS II M TECH	21-03-2022
END SEMESTER EXAMINATIONS II MBA	21-03-2022
PREPARATION AND PRACTICLE EXAMINATIONS I M TECH	23-03-2022
END SEMESTER EXAMINATIONS I M TECH	30-03-2022
PLANNING TO ORGANIZE TRADITIONAL DAY	01-04-2022
UGADHI HOLIDAY	02-04-2022
BABU JAGJIVANRAM JAYANTHI HOLIDAY	05-04-2022
IInd MID EXAMINATIONS I MBA	11-04-2022
DR B R AMBEDKAR JAYANTHI HOLIDAY	14-04-2022
GOOD FRIDAY HOLIDAY	15-04-2022
PREPARATION AND PRACTICLE EXAMINATIONS I MBA	20-04-2022
IInd MID EXAMINATIONS I B TECH	25-04-2022

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END SEMESTER EXAMINATIONS I MBA	27-04-2022
PREPARATION AND PRACTICLE EXAMINATIONS I B TECH	02-05-2022
RAMZAN HOLIDAY	03-05-2022
FOLLOWING DAY OF RAMZAN HOLIDAY	04-05-2022
END SEMESTER EXAMINATIONS I B TECH	09-05-2022

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INSTITUTION ACADEMIC CALENDAR FOR THE ACADEMIC YEAR 2022-23

IInd -SEM

ACTIVITY	DATE
PLANNING TO CONDUCT INTERNSHIP TRAINING PROGRAM FOR IV B TECH	17-01-2022 TO 11-05-2022
PLANNING TO ORGANIZE WORKSHOP ON ADVANCED VLSI DESIGN TOOLS	17-01-2022 TO 22-01-2022
PLANNING TO CONDUCT WORKSHOP ON ADVANCED PYTHON PROGRAMMING	19-01-2022 TO 25-01-2022
COMMENCEMENT OF II SEM CLASS WORK III B TECH	10-02-2022
Ist SPELL OF INSTRUCTIONS III B TECH	10-02-2022
CRT TRAINING FOR III B TECH	
COMMENCEMENT OF II SEM CLASS WORK IV B TECH	10-02-2022
Ist SPELL OF INSTRUCTIONS IV B TECH	10-02-2022
COMMENCEMENT OF II SEM CLASS WORK II B TECH	14-03-2022
Ist SPELL OF INSTRUCTIONS II B TECH	14-03-2022
IQAC MEETING-II	28-03-2022
COMMENCEMENT OF II SEM CLASS WORK II M TECH	04-04-2022
PROJECT REVIEW -II(PHASE-I) II M TECH	04-04-2022
Ist MID EXAMINATIONS III B TECH	07-04-2022
Ist MID EXAMINATIONS IV B TECH	07-04-2022
COMMENCEMENT OF II SEM CLASS WORK II MBA	04-04-2022
Ist SPELL OF INSTRUCTIONS II MBA	04-04-2022
IInd SPELL OF INSTRUCTIONS III B TECH	14-04-2022
IInd SPELL OF INSTRUCTIONS IV B TECH	14-04-2022
COMMENCEMENT OF II SEM CLASS WORK I M TECH	18-04-2022

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I[st] SPELL OF INSTRUCTIONSI M TECH	18-04-2022
PLANNING TO ORGANIZE INDUSTRIAL VISITS FOR B TECH/MBA	20-04-2022 TO 24-04-2022
PROJECT REVIEW -II(PHASE-II) II MTECH	26-04-2022
PLANNING TO ORGANIZE TECH RESONACE 2K22	28-04-2022 TO 30-04-2022
SUMMER VACATION	09-05-2022 to 21-05-2022
COMMENCEMENT OF II SEM CLASS WORK I MBA	13-05-2022
I[st] SPELL OF INSTRUCTIONS I MBA	13-05-2022
COMMENCEMENT OF II SEM CLASS WORK I B TECH	23-05-2022
I[st] SPELL OF INSTRUCTIONS I B TECH	23-05-2022
I[st] MID EXAMINATIONS II B TECH	30-05-2022
II[nd] SPELL OF INSTRUCTIONS II B TECH	06-06-2022
I[st] MID EXAMINATIONS II MBA	13-06-2022
II[nd] MID EXAMINATIONS III B TECH	25-06-2022
II[nd] MID EXAMINATIONS IV B TECH	25-06-2022
II[nd] SPELL OF INSTRUCTIONS II MBA	26-06-2022
I[st] MID EXAMINATIONS I M TECH	27-06-2022
PLANNING TO ORGANIZE TREE PLANTATION	29-06-2022
PLANNING TO ORGANIZE GUEST LECTURES FOR III & IV B TECH	01-07-2022 TO 04-07-2022
PREPARATION AND PRACTICLE EXAMINATIONS III B TECH	02-07-2022
PREPARATION AND PRACTICLE EXAMINATIONS IV B TECH	02-07-2022
II[nd] SPELL OF INSTRUCTIONS I M TECH	04-07-2022
I[st] MID EXAMINATIONS I MBA	09-07-2022
END SEMESTER EXAMINATIONS III B TECH	11-07-2022

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END SEMESTER EXAMINATIONS IV B TECH	11-07-2022
IInd SPELL OF INSTRUCTIONS I MBA	16-07-2022
Ist MID EXAMINATIONS I B TECH	18-07-2022
BONALU HOLIDAY	25-07-2022
IInd SPELL OF INSTRUCTIONS I B TECH	26-07-2022
IInd MID EXAMINATIONS II B TECH	01-08-2022
PLANNING TO ORGANIZE BLOOD DONATION CAMP BY NSS	02-08-2022 TO 05-08-2022
PREPARATION AND PRACTICLE EXAMINATIONS II B TECH	09-08-2022
MOHARAM HOLIDAY	09-08-2022
INDEPENDENCE DAY CELEBRATIONS	15-08-2022
END SEMESTER EXAMINATIONS II B TECH	17-08-2022
SRI KRISHNA ASHTAMI HOLIDAY	20-08-2022
PLANNING TO ORGANIZE GUEST LECTURES FOR II & III B TECH	21-08-2022 TO 27-08-2022
PLANNING TO ORGANIZE WORKSHOP ON MAT LAB TOOL	22-08-2022 TO 29-08-2022
IInd MID EXAMINATIONS I M TECH	29-08-2022
VINAYAKA CHAVITHI HOLIDAY	31-08-2022
PREPARATION AND PRACTICLE EXAMINATIONS I M TECH	05-09-2022
PROJECT REVIEW -III(PHASE-I) II M TECH	05-09-2022
IInd MID EXAMINATIONS II MBA	16-08-2022
IInd MID EXAMINATIONS I MBA	12-09-2022
END SEMESTER EXAMINATIONS I M TECH	12-09-2022
PREPARATION AND PRACTICLE EXAMINATIONS II MBA	23-08-2022
IInd MID EXAMINATIONS I B TECH	19-09-2022

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PREPARATION AND PRACTICLE EXAMINATIONS I MBA	19-09-2022
END SEMESTER EXAMINATIONS II MBA	29-08-2022
BATHUKAMMA STARTING DAY HOLIDAY	25-09-2022
PREPARATION AND PRACTICLE EXAMINATIONS I B TECH	26-09-2022
END SEMESTER EXAMINATIONS I MBA	26-09-2022
MAHATMA GANDHI JAYANTHI HOLIDAY	02-10-2022
END SEMESTER EXAMINATIONS I B TECH	03-10-2022

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC CALENDAR 2021-22
I[ST] -SEM

ACTIVITY	DATE
DEPARTMENT ACADEMIC COMMITTEE MEETING	03-09-2021
COMMENCEMENT OF I SEM CLASS WORK III B TECH	06-09-2021
I[st] SPELL OF INSTRUCTIONS III B TECH	06-09-2021
COMMENCEMENT OF I SEM CLASS WORK IV B TECH	06-09-2021
I[st] SPELL OF INSTRUCTIONS IV B TECH	06-09-2021
CRT TRAINING FOR IV B TECH	
ENGINEERS DAY CELEBRATIONS	15-09-2021
PLANNING TO ORGANIZE WORKSHOP ON PLACEMENT ELIGIBILITY TEST	23-09-2021 TO 29-09-2021
MAHATMA GANDHI JAYANTHI HOLIDAY	02-10-2021
BATHUKAMMA STARTING DAY HOLIDAY	06-10-2021
PLANNING TO ORGANIZE WORKSHOP ON SOFT SKILLS TRAINING	04-10-2021 TO 09-10-2021
DUSSEHRA HOLIDAYS	11-10-2021 to 16-10-2021
COMMENCEMENT OF I SEM CLASS WORK II B TECH	18-10-2021
I[st] SPELL OF INSTRUCTIONS II B TECH	18-10-2021
EID MILADUN NABI HOLIDAY	19-10-2021
DEEPAVALI HOLIDAY	04-11-2021
I[st] MID EXAMINATIONS III B TECH	08-11-2021
I[st] MID EXAMINATIONS IV B TECH	08-11-2021
PLANNING TO CONDUCT INTERNSHIP TRAINING PROGRAM FOR III B TECH	15-11-2021 TO 14-12-2021
II[nd] SPELL OF INSTRUCTIONS III B TECH	15-11-2021
II[nd] SPELL OF INSTRUCTIONS IV B TECH	15-11-2021

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GURU NANAK JAYANTHI HOLIDAY	19-11-2021
SUBMISSION OF III & IV B TECH MID-I MARKS TO UNIVERSITY	20-11-2021
Ist MID EXAMINATIONS II B TECH	13-12-2021
PLANNING ORGANIZE INDUSTRIAL VISITS FOR B TECH	15-12-2021 TO 20-12-2021
PLANNING TO CONDUCT ANTI RAGGING MEETING	20-12-2021
IInd SPELL OF INSTRUCTIONS II B TECH	20-12-2021
SUBMISSION OF II B TECH MID-I MARKS TO UNIVERSITY	24-12-2021
PLANNING TO CONDUCT INTERNSHIP TRAINING PROGRAM FOR II B TECH	21-12-2021 TO 25-01-2022
CHRISTMAS HOLIDAY	25-12-2021
NEW YEAR HOLIDAY	01-01-2022
PLANNING TO ORGANIZE FRESHERS' DAY	03-01-2022 TO 06-01-2022
IInd MID EXAMINATIONS III B TECH	10-01-2022
IInd MID EXAMINATIONS IV B TECH	10-01-2022
SANKRANTHI/PONGAL HOLIDAYS	14-01-2022 to 16-01-2022
PREPARATION AND PRACTICLE EXAMINATIONS III B TECH	19-01-2022
PREPARATION AND PRACTICLE EXAMINATIONS IV B TECH	19-01-2022
PLANNING TO ORGANIZE SPORTS MEET	20-01-2022 TO 25-01-2022
SUBMISSION OF III & IV B TECH MID-II MARKS TO UNIVERSITY	25-01-2022
REPUBLIC DAY CELEBRATIONS	26-01-2022
END SEMESTER EXAMINATIONS III B TECH	27-01-2022
END SEMESTER EXAMINATIONS IV B TECH	27-01-2022
IInd MID EXAMINATIONS II B TECH	14-02-2022
PREPARATION AND PRACTICLE EXAMINATIONS II B TECH	21-02-2022
PLANNING TO CONDUCT GUEST LECTURES FOR II B TECH	21-02-2022 TO 23-02-2022
SUBMISSION OF II B TECH MID-II MARKS TO UNIVERSITY	26-02-2022

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END SEMESTER EXAMINATIONS II B TECH	28-02-2022
MAHA SHIVARATHRI HOLIDAY	01-03-2022
PLANNING TO CONDUCT WOMENS DAY CELEBRATIONS	08-03-2022
ANTI DRUG AWARENESS PROGRAM BY NSS	09-03-2022
HOLI HOLIDAY	18-03-2022
PLANNING TO ORGANIZE TRADITIONAL DAY	01-04-2022
UGADHI HOLIDAY	02-04-2022
BABU JAGJIVANRAM JAYANTHI HOLIDAY	05-04-2022
PLANNING TO ORGANIZE FDP ON ELECTRIC HYBRID VEHICLES	03-04-2022 TO 10-04-2022
DR B R AMBEDKAR JAYANTHI HOLIDAY	14-04-2022
GOOD FRIDAY HOLIDAY	15-04-2022
RAMZAN HOLIDAY	03-05-2022
FOLLOWING DAY OF RAMZAN HOLIDAY	04-05-2022

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC CALENDAR 2021-22
IIND -SEM

ACTIVITY	DATE
PLANNING TO CONDUCT INTERNSHIP TRAINING PROGRAM FOR IV B TECH	17-01-2022 TO 11-05-2022
COMMENCEMENT OF II SEM CLASS WORK III B TECH	10-02-2022
Ist SPELL OF INSTRUCTIONS III B TECH	10-02-2022
CRT TRAINING FOR III B TECH	
COMMENCEMENT OF II SEM CLASS WORK IV B TECH	10-02-2022
Ist SPELL OF INSTRUCTIONS IV B TECH	10-02-2022
COMMENCEMENT OF II SEM CLASS WORK II B TECH	14-03-2022
Ist SPELL OF INSTRUCTIONS II B TECH	14-03-2022
Ist MID EXAMINATIONS III B TECH	07-04-2022
Ist MID EXAMINATIONS IV B TECH	07-04-2022
IInd SPELL OF INSTRUCTIONS III B TECH	14-04-2022
IInd SPELL OF INSTRUCTIONS IV B TECH	14-04-2022
SUBMISSION OF III & IV B TECH MID-I MARKS TO UNIVERSITY	20-04-2022
PLANNING TO ORGANIZE INDUSTRIAL VISITS	20-04-2022 TO 24-04-2022
PLANNING TO ORGANIZE TECH RESONACE 2K22	28-04-2022 TO 30-04-2022
SUMMER VACATION	09-05-2022 to 21-05-2022
Ist MID EXAMINATIONS II B TECH	30-05-2022
IInd SPELL OF INSTRUCTIONS II B TECH	06-06-2022
SUBMISSION OF II B TECH MID-I MARKS TO UNIVERSITY	11-06-2022
IInd MID EXAMINATIONS III B TECH	25-06-2022
IInd MID EXAMINATIONS IV B TECH	25-06-2022
PLANNING TO ORGANIZE TREE PLANTATION	29-06-2022

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PLANNING TO ORGANIZE GUEST LECTURES FOR III & IV B TECH	01-07-2022 TO 04-07-2022
PREPARATION AND PRACTICLE EXAMINATIONS III B TECH	02-07-2022
PREPARATION AND PRACTICLE EXAMINATIONS IV B TECH	02-07-2022
SUBMISSION OF III & IV B TECH MID-II MARKS TO UNIVERSITY	09-07-2022
END SEMESTER EXAMINATIONS III B TECH	11-07-2022
END SEMESTER EXAMINATIONS IV B TECH	11-07-2022
BONALU HOLIDAY	25-07-2022
IInd MID EXAMINATIONS II B TECH	01-08-2022
PLANNING TO ORGANIZE BLOOD DONATION CAMP BY NSS	02-08-2022 TO 05-08-2022
PREPARATION AND PRACTICLE EXAMINATIONS II B TECH	09-08-2022
MOHARAM HOLIDAY	09-08-2022
INDEPENDENCE DAY CELEBRATIONS	15-08-2022
SUBMISSION OF II B TECH MID-II MARKS TO UNIVERSITY	16-08-2022
END SEMESTER EXAMINATIONS II B TECH	17-08-2022
SRI KRISHNA ASHTAMI HOLIDAY	20-08-2022
PLANNING TO ORGANIZE GUEST LECTURES FOR II & III B TECH	21-08-2022 TO 27-08-2022
PLANNING TO ORGANIZE WORKSHOP ON MAT LAB TOOL	22-08-2022 TO 29-08-2022
VINAYAKA CHAVITHI HOLIDAY	31-08-2022
BATHUKAMMA STARTING DAY HOLIDAY	25-09-2022
MAHATMA GANDHI JAYANTHI HOLIDAY	02-10-2022

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by State Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

ACADEMIC REGULATIONS FOR B.TECH. REGULAR STUDENTS WITH EFFECT FROM ACADEMIC YEAR 2018-19 (R-18)

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

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

2.0 Eligibility for admission

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

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

3.0 B.Tech. Programme structure

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

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

3.2.1 Semester scheme

Each under graduate programme is of 4 academic years (8 semesters) with the academic year divided into two semesters of 22 weeks (≥ 90 instructional days) each, each semester having - 'Continuous Internal Evaluation (CIE)' and 'Semester End Examination (SEE)'

under Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) indicated by UGC, and curriculum/course structure as suggested by AICTE are followed.

3.2.2 Credit courses

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

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

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

3.2.3 Subject Course Classification

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

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

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

4.0 Course registration

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

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

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

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

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

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

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

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

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

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

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

5.0 Subjects/ courses to be offered

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

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

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

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

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

6.0 Attendance requirements:

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

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

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

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

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

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

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

7.0 Academic requirements

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

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

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

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

7.3 Promotion Rules

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

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

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

7.6 A student eligible to appear in the semester end examination for any subject/ course, but absent from it or failed (thereby failing to secure **'C'** grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, internal marks (CIE) assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.

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

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

8.0 Evaluation - Distribution and Weightage of marks

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

8.2 For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the descriptive paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for descriptive paper). The objective paper is set with 20 multiple choice, fill-in the blanks and matching type of questions for a total of 10 marks. The descriptive paper shall contain 4 full questions out of which, the student has to answer 2 questions, each

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

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

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

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

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

8.2.4 For the Subject **Estimation, Costing and Project Management**, the SEE paper should consist of Part- A, Part-B and Part C. (i) Part – A – 1 out of 2 questions from Unit – I for 30 Marks, (ii) Part – B – 1 out of 2 questions from Unit – II for 15 Marks, (iii) Part – C – 3 out of 5 questions from Units – III, IV, V for 30 Marks.

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

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

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

8.5 There shall be an Industrial Oriented Mini Project/Summer Internship, in collaboration with an industry of their specialization. Students will register for this immediately after III year II semester examinations and pursue it during summer vacation. Industrial Oriented Mini Project/Summer Internship shall be submitted in a report form and presented before the committee in IV year I semester. It shall be evaluated for 100 external marks. The committee consists of an external examiner, Head of the Department, supervisor of the Industrial Oriented mini project/Summer Internship and a senior faculty member of the department. There shall be no internal marks for Industrial Oriented Mini Project/Summer Internship.

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

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

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

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

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

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

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

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

8.11 For mandatory courses of Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization lab, a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course. **These marks should also be uploaded along with the internal marks of other subjects.**

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

9.0 Grading procedure

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

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

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

Greater than or equal to 90%	**O (Outstanding)**	**10**
80 and less than 90%	**A^+ (Excellent)**	**9**
70 and less than 80%	**A (Very Good)**	**8**
60 and less than 70%	**B^+ (Good)**	**7**
50 and less than 60%	**B (Average)**	**6**
40 and less than 50%	**C (Pass)**	**5**
Below 40%	**F (FAIL)**	**0**
Absent	**Ab**	**0**

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

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

9.5 A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.

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

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

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

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

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

where 'i' is the subject indicator index (takes into account all subjects in a semester), 'N' is the no. of subjects '**registered**' for the semester (as specifically required and listed under the course structure of the parent department), C_i is the no. of credits

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

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

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

(i.e., up to and inclusive of S semesters, S ≥ 2),

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

Illustration of calculation of SGPA:

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

SGPA = 152/21 = 7.24

Illustration of calculation of CGPA up to 3rd semester:

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

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

CGPA = 518/69 = 7.51

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

9.10 For merit ranking or comparison purposes or any other listing, **only** the '**rounded off**' values of the CGPAs will be used.

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

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10.0 Passing standards

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

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

11.0 Declaration of results

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

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

% of Marks = (final CGPA – 0.5) x 10

12.0 Award of degree

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

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

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

(i) Should have passed all the subjects/courses in **'first appearance'** within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.

(ii) Should have secured a CGPA ≥ 8.00, at the end of each of the 8 sequential semesters, starting from I year I semester onwards.

(iii) Should not have been detained or prevented from writing the semester end examinations in any semester due to shortage of attendance or any other reason.

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

12.4 Students with final CGPA (at the end of the under graduate programme) ≥ 6.50 but <

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

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

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

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

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

13.0 Withholding of results

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

14.0 Student transfers

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

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

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

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

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

15.0 Scope

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

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

15.3 The University may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the dates notified by the University authorities.

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

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by State Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

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

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

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

2. The student shall register for 123 credits and secure 123 credits with CGPA ≥ 5 from II year to IV year B.Tech. programme (LES) for the award of B.Tech. degree.

3. The students, who fail to fulfil the requirement for the award of the degree in six academic years from the year of admission, shall forfeit their seat in B.Tech.

4. The attendance requirements of B. Tech. (Regular) shall be applicable to B.Tech. (LES).

5. Promotion rule

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

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

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

MALPRACTICES RULES

DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

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

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

	misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	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.
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:

Sl. No.	Branch
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 ≥ 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 (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
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 ± 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 ≥ 5.0 (in each semester) and CGPA (at the end of each successive semester) ≥ 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.

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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 ≥ 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^+ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B^+ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	Ab	0

9.3 A student 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 ≥ 5 ('C' grade or above)**

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

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

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

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

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

(i.e., up to and inclusive of S semesters, S ≥ 2),

where **'M'** is the **total** no. of subjects (as specifically required and listed under the course structure of the parent department) the student has **'registered'** i.e., from the 1st semester onwards up to and inclusive of the 8^{th} semester, 'j' is the subject indicator index (takes

into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the j^{th} subject, and G_j represents the grade points (GP) corresponding to the letter grade awarded for that j^{th} subject. After registration and completion of first year first semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA

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

SGPA = 152/21 = 7.24

Illustration of calculation of CGPA:

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
I Year I Semester				
Course 1	4	A	8	4 x 8 = 32
Course 2	4	A+	9	4 x 9 = 36
Course 3	4	B	6	4 x 6 = 24
Course 4	3	O	10	3 x 10 = 30
Course 5	3	B+	7	3 x 7 = 21
Course 6	3	A	8	3 x 8 = 24
I Year II Semester				
Course 7	4	B+	7	4 x 7 = 28
Course 8	4	O	10	4 x 10 = 40
Course 9	4	A	8	4 x 8 = 32
Course 10	3	B	6	3 x 6 = 18
Course 11	3	C	5	3 x 5 = 15
Course 12	3	A+	9	3 x 9 = 27
	Total Credits = 42			Total Credit Points = 327

CGPA = 327/42 = 7.79

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.

10.0 Passing standards

10.1 A student shall be declared successful or 'passed' in a semester, if student secures a GP ≥ 5 ('C' grade or above) in every subject/course in that semester (i.e. when student gets an SGPA ≥ 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 ≥ 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.

% of Marks = (final CGPA – 0.5) x 10

12.0 Award of degree

12.1 A student who registers for all the specified subjects/ courses as listed in the course structure and secures the required number of 192 credits (with CGPA ≥ 5.0), within 8 academic years from the date of commencement of the first academic year, shall be declared to have **'qualified'** for the award of 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) ≥ 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 ≥ 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) ≥ 6.50 but < 8.00, shall be placed in '**first class**'.

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

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

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

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

MALPRACTICES RULES

DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

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

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		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 of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	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.

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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.

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.	

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.

* * * * *

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Examination Reform Policy

November 2018

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

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Examination Reform Policy

November 2018

PRINCIPAL

MESSAGE

AICTE is taking a multi-pronged approach to recalibrate the technical education in the country, to provide competent professionals. Challenged by keeping the pace of education with the advancements in the technology and industry needs, AICTE has pushed reforms by way of a model curriculum for various engineering disciplines, providing good quality self-learning content through MOOCs, framing a policy for the training of technical teachers 3-week student induction program and enunciating guidelines for the mandatory internship for student among others. Continuing with the streak, AICTE has now come out with an Examination Reform Policy, which would not only improve the quality of technical education in general but also examine the effectiveness of earlier initiatives of AICTE and also those on the anvil.

Evaluation, grading and certification in our system rest on examinations which play an important role in the progression of a learner on the learning path. The examinations not only indicate whether the desired learning outcomes have been achieved but also assess the level of achievements against benchmarks. Thus, examinations serve as checkpoints for both the learner and the external world, allowing appropriate certification to be issued reflecting the proficiency of an individual operating in socio-economic spheres.

This policy comes at a time when knowledge is freely available for creating resources, opportunities for more knowledge, which requires skill of higher order beyond remembering and comprehension. This policy intends to push the evaluation notches up on the Bloom's taxonomy and examine the learner for higher order cognitive skills to drive critical thinking, creativity and problem solving which have to be the attributes of any technical professional. It is hoped that this will also force necessary alignment in the teaching-learning processes on one hand to the bridging of the gap between theory and practicals on the other and prepare students for innovation and creativity.

We request the technical institutions and universities in the country to adopt this examination reform policy. To facilitate this, model question papers and question banks will be developed/ shared through AICTE website. With a view to impart momentum to this much-awaited reform, AICTE shall be conducting a series of training workshops for faculty, across the country.

We thank members of the committee led by Prof. Shettar, Vice-Chancellor, KLE University for developing the policy which will go a long way to enhance the employability ratio and also enable youngsters to become problem-solvers, innovators and job creators. We especially thank MHRD for providing guidance and support throughout the process of creation of this Policy.

(Prof. Anil D. Sahasrabudhe)

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PREFACE

Globalisation of the world economy and higher education are driving profound changes in engineering education system. Worldwide adaptation of Outcome-Based Education (OBE) framework and enhanced focus on higher-order learning and professional skills necessitates paradigm shift in traditional practices of curriculum design, education delivery and assessment. In recent years, worldwide sweeping reforms are being undertaken to bring about essential changes in engineering education in terms of what to teach (content) and how to teach (knowledge delivery) and how to assess (student learning).

Examinations/student assessments play a very important role in deciding the quality of education. The academic quality of examinations (question papers) in Indian engineering education system has been a matter of concern from a long time. This report attempts to bring out recommendations for reforms in examination system to meet challenges of emerging engineering education landscape.

The recommendations are presented in four sections. Beginning in Section-1, the most important drivers for examination reforms in Indian engineering education system are discussed. Section-2 brings out strategies to be adopted to align assessment with the desired student learning outcomes. A two-step method is proposed for mapping the examination questions with course outcomes. Section-3 highlights the necessity of designing question papers to test higher order abilities and skills. Application of blooms taxonomy framework to create an optimal structure of examination papers to test the different cognitive skills is discussed in detail. Challenge of assessing higher order abilities and professional skills through traditional examination system is brought out in Section-4. Several educational experiences and assessment opportunities are identified to overcome the challenges. Appendices contain the supplement material that is helpful for Universities/ Colleges to implement recommendations.

At this juncture, reforms in examinations are critical for the improvement of the quality and relevance of Indian engineering education. It is hoped that the Report will be of use to Universities and Colleges to bring out the much-needed change. The cooperation received from AICTE officials in bringing out the Report is gratefully acknowledged.

Prof. Ashok S. Shettar

Prof. Rama Krishna Challa

Prof. Sanjay Agarwal

Prof. Upendra Pandel

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ACKNOWLEDGEMENT

The development of an outcome based Examination Reform Policy for technical education is a result of thoughtful deliberations, involving dedicated and specialized experts. This Policy has been framed to meet the expectations of an academically challenging environment, develop problem-solving skills by students, aligning with current global standards and to enrich the students learning to make them self-enablers and/or match job requirements on successful completion of their degree.

The performance-based new-age reforms in the examination will benefit each student for preparing him/her for success in the knowledge society. This will create proper mapping between program outcomes and assessment tools that lead to the accurate and reliable measurement of attainment of outcomes of the students. In short, the Policy focuses on providing the ability of student to understand the subject and apply the knowledge to real world problems.

We are thankful to the members of the committee Prof. Ashok S. Shettar, Prof. Rama Krishna Challa, Prof. Sanjay Agarwal and Prof. Upendra Pandel who were devotedly committed towards framing this Policy. We thank them for identifying Competencies and Performance Indicators (PIs) with Program Outcomes (POs); Sample Questions for all six levels of Bloom's Taxonomy; Model Question Papers for end semester examinations based on Bloom's Taxonomy; and Sample Scoring Rubrics for communication (written & oral), and assessment of design projects and semester mini projects.

Special thanks and gratitude to Prof. Anil D. Sahasrabdhe, Chairman; Prof M.P. Poonia, Vice Chairman and Prof. A.P. Mittal, Member Secretary, AICTE who have been pivotal in developing this Policy and encouraging throughout the process.

I appreciate the officers and officials of Policy & Academic Planning Bureau for their contribution and support in the exercise that has led to this Policy.

I also sincerely thank all officers and officials of AICTE, who have contributed in one way or other for the development of this Policy.

Thanking all once again and seeking continued support and also feedback on the Policy.

(Prof. Rajive Kumar)
Adviser-I
Policy & Academic Planning Bureau, AICTE

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INTRODUCTION

Globalisation of the world economy and higher education are driving profound changes in engineering education system. There is a continuing need to dynamically adapt to these changes, to ensure that we remain competitive and can respond effectively to the challenges of globalisation. Future engineering graduates not only need to be knowledgeable in his/her discipline but also needs a new set of soft, professional skills and competencies [1].

In recent years, there have been essential changes in engineering education in terms of what to teach (content) and how to teach (knowledge delivery) and how to assess (student learning).

AICTE has already taken initiation to come out with model curriculum for engineering programs. The digital initiatives of MHRD and AICTE have made available very large number of MOOC courses through SWAYAM, that can help the colleges and teachers to adopt innovative methodologies in the delivery of course.

The present report focusses on the recommendations for reforms in examinations (assessment of student) in the context of emerging landscape of engineering education.

Examinations/student assessments play a very important role in deciding the quality of education. They must not only assess student's achievements (and grades) but also measure whether the desired learning outcomes have been achieved. The achievement of objectives and program outcomes are crucial and needs to be proven through accurate and reliable assessments.

The academic quality of examinations (question papers) in Indian engineering education system has been a matter of concern from a long time. It is widely acknowledged that "assessment drives learning", what and how students learn depends to a major extent on how they think they will be assessed [2]. The question papers that require simple memory recall will not ensure deep, meaningful learning. High expectations for learning motivate the students to rise to the occasion. The assessment (examination) must embed those high expectations to ensure that the learner is motivated to attain them.

Considering the above imperatives, it is clear that reforms in Examinations are critical for improvement of the quality of Indian engineering education. The most important drivers for reforms in examination system of Indian engineering education are:

1. Adaptation of Outcome-Based Education Framework

Outcome-based education (OBE)- a performance-based approach has emerged as a major reform model in the global engineering education scenario [3]. The country that wants to be a signatory member of a multinational agreement for the mutual recognition of engineering degrees, i.e. the Washington Accord (WA) must implement OBE. This will be an endorsement that the engineering education system has demonstrated a strong, long-term commitment to quality assurance in producing engineers ready for industry practice in the international scene. Being signatory to the Washington Accord, Indian accreditation agency 'National Board of Accreditation (NBA)' has made it mandatory for engineering institutions to adapt OBE framework for their curriculum design, delivery and assessment. In OBE framework, the educational outcomes of a program are clearly and unambiguously specified. These determine the curriculum content and its organization, the teaching methods and strategies and the assessment process.

Though Indian Universities and Colleges have started adapting OBE framework for their engineering programs, the focus is limited to the curriculum design part, i.e. connecting curriculum components to the program outcomes. Very little attention is being given for connecting examination questions/assessment tools to the program outcomes. The absence of proper mapping between program outcomes and assessment tools lead to the inaccurate and unreliable measurement of attainment of outcomes by the students. This missing connect creates a big gap in the effective adaptation of OBE framework, making the whole exercise futile.

2. Importance of Higher-order Abilities and Professional Skills

In the present examination system, memorization occupies a dominant place. The recall of factual knowledge, though essential to any examination, is only one of several major abilities to be demonstrated by the graduates. The assessment process must also test higher level skills viz. ability to apply knowledge, solve complex problems, analyse, synthesise and design. Further, professional skills like the ability to communicate, work in teams, lifelong learning have become important elements for employability of the graduates [4]. It is important that the examinations also give appropriate weightage to the assessment of these higher-level skills and professional competencies.

Keeping in view of the above challenges and looking at some of the worldwide best practices in assessment, the present report comes up with several recommendations that can be used by Universities/ Colleges to design their assessment strategies.

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ASSESSMENT STRATEGY FOR OUTCOME-BASED EDUCATION

1. Mapping Program Outcomes to Assessment (Examinations)

Graduate attributes (GAs) articulate the generic abilities to be looked for in a graduate of any undergraduate degree program. They form the Program Outcomes (POs) that reflect the skills, knowledge and abilities of graduates regardless of the field of study. This does not mean that POs are necessarily independent of disciplinary knowledge –rather, these qualities may be developed in various disciplinary contexts.

In outcome-based education, a "design down" process is employed which moves from POs to Course Outcomes (COs) and outcomes for individual learning experiences. Outcomes at each successive level need to be aligned with, and contribute to, the program outcomes.

Courses are the building blocks of a program. Teaching strategies, learning activities, assessments and resources should all be designed and organized to help students achieve the learning outcomes at the course level. In the assessment activities, students demonstrate their level of achievement of the course learning outcomes. In a constructively aligned program, the courses are carefully coordinated to ensure steady development or scaffolding from the introduction to mastery of the learning outcomes, leading to achievement of the intended POs. For the effectiveness of the program, the achievement of POs is crucial which needs to be proven through accurate and reliable assessments.

2. Two-step Process for Bringing Clarity to POs

POs give useful guidance at the program level for the curriculum design, delivery and assessment of student learning. However, they represent fairly high-level generic goals that are not directly measurable. Real observability and measurability of the POs at course level is very difficult. To connect high-level learning outcomes (POs) with course content, course outcomes and assessment, there is a necessity to bring further clarity and specificity to the program outcomes [5]. This can be achieved through the following two-step process of identifying Competencies and Performance Indicators (PI).

(1) Identify Competencies to be attained: For each PO define competencies –different abilities implied by program outcome statement that would generally require different assessment measures. This helps us to create a shared understanding of the competencies we want students to achieve. They serve as an intermediate step to the creation of measurable indicators.

Example:

Program Outcome (Attribute 3)

Design:

PO3: Design/Development of Solutions: Design solutions for complex engineering problems and

design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.

Competencies

1. Demonstrate an ability to define a complex, open-ended problem in engineering terms.
2. Demonstrate an ability to generate a diverse set of alternative design solutions.
3. Demonstrate an ability to select the optimal design scheme for further development.
4. Demonstrate an ability to advance an engineering design to the defined end state.

(2) Define Performance Indicators: For each of the competencies identified, define performance Indicators (PIs) that are explicit statements of expectations of the student learning. They can act as measuring tools in assessment to understand the extent of attainment of outcomes. They can also be designed to determine the appropriate achievement level or competency of each indicator so that instructors can target and students can achieve the acceptable level of proficiency.

Example:

For the Competency -2

Demonstrate an ability to generate a diverse set of alternative design solutions

Performance Indicators:

1. Apply formal idea generation tools to develop multiple engineering design solutions
2. Build models, prototypes, algorithms to develop a diverse set of design solutions
3. Identify the functional and non-functional criteria for evaluation of alternate design solutions.

It should be noted that, when we consider the program outcome, it looks like, it can be achieved only in the Capstone project. But if we consider the competencies and performance indicators, we start seeing the opportunities of addressing them (and hence PO) in various courses of the program.

Once the above process is completed for the program, the assessment of COs for all the courses is designed by connecting assessment questions (used in various assessment tools) to the PIs. By following this process, where examination questions map with PIs, we get clarity and better resolution for the assessment of COs and POs. The pictorial representation of the process is given in Fig. 1

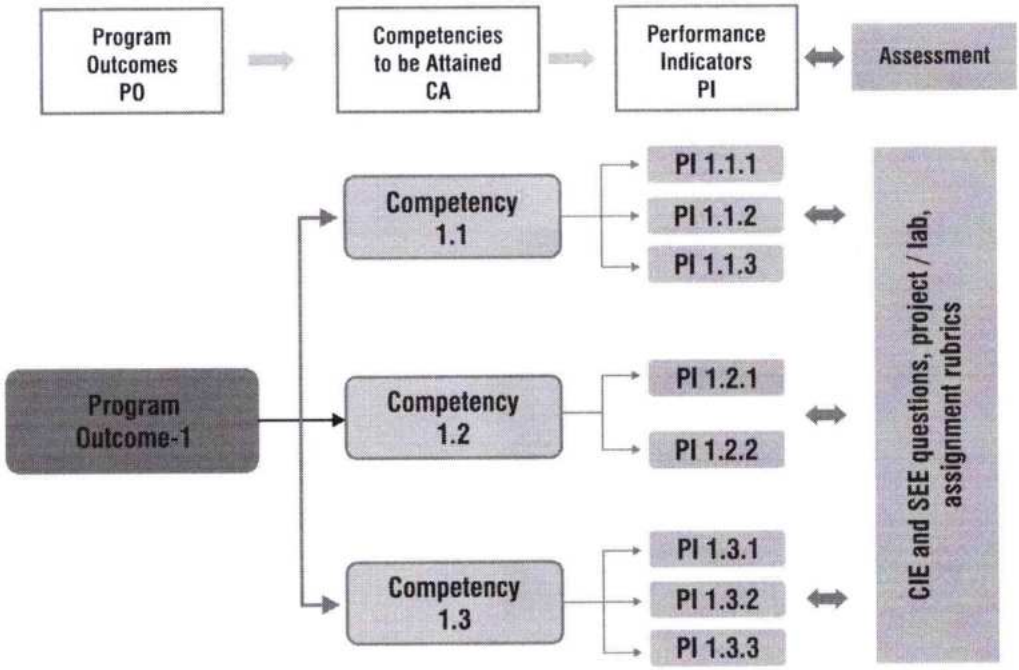

Fig. 1: Connecting POs to Assessment

3. Program Outcomes – Competencies – Performance Indicators

Following table gives the suggestive list of competencies and associated performance indicators for each of the PO in Mechanical Engineering Program.

PO 1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation for the solution of complex engineering problems.	
Competency	**Indicators**
1.1 Demonstrate competence in mathematical modelling	1.1.1 Apply mathematical techniques such as calculus, linear algebra, and statistics to solve problems 1.1.2 Apply advanced mathematical techniques to model and solve mechanical engineering problems
1.2 Demonstrate competence in basic sciences	1.2.1 Apply laws of natural science to an engineering problem
1.3 Demonstrate competence in engineering fundamentals	1.3.1 Apply fundamental engineering concepts to solve engineering problems
1.4 Demonstrate competence in specialized engineering knowledge to the program	1.4.1 Apply Mechanical engineering concepts to solve engineering problems.
PO 2: Problem analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.	
Competency	**Indicators**
2.1 Demonstrate an ability to identify and formulate complex engineering problem	2.1.1 Articulate problem statements and identify objectives 2.1.2 Identify engineering systems, variables, and parameters to solve the problems 2.1.3 Identify the mathematical, engineering and other relevant knowledge that applies to a given problem

2.2	Demonstrate an ability to formulate a solution plan and methodology for an engineering problem	2.2.1	Reframe complex problems into interconnected sub-problems
		2.2.2	Identify, assemble and evaluate information and resources.
		2.2.3	Identify existing processes/solution methods for solving the problem, including forming justified approximations and assumptions
		2.2.4	Compare and contrast alternative solution processes to select the best process.
2.3	Demonstrate an ability to formulate and interpret a model	2.3.1	Combine scientific principles and engineering concepts to formulate model/s (mathematical or otherwise) of a system or process that is appropriate in terms of applicability and required accuracy.
		2.3.2	Identify assumptions (mathematical and physical) necessary to allow modeling of a system at the level of accuracy required.
2.4	Demonstrate an ability to execute a solution process and analyze results	2.4.1	Apply engineering mathematics and computations to solve mathematical models
		2.4.2	Produce and validate results through skilful use of contemporary engineering tools and models
		2.4.3	Identify sources of error in the solution process, and limitations of the solution.
		2.4.4	Extract desired understanding and conclusions consistent with objectives and limitations of the analysis

PO 3: Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.

	Competency		Indicators
3.1	Demonstrate an ability to define a complex/ open-ended problem in engineering terms	3.1.1	Recognize that need analysis is key to good problem definition
		3.1.2	Elicit and document, engineering requirements from stakeholders
		3.1.3	Synthesize engineering requirements from a review of the state-of-the-art
		3.1.4	Extract engineering requirements from relevant engineering Codes and Standards such as ASME, ASTM, BIS, ISO and ASHRAE.
		3.1.5	Explore and synthesize engineering requirements considering health, safety risks, environmental, cultural and societal issues
		3.1.6	Determine design objectives, functional requirements and arrive at specifications
3.2	Demonstrate an ability to generate a diverse set of alternative design solutions	3.2.1	Apply formal idea generation tools to develop multiple engineering design solutions
		3.2.2	Build models/prototypes to develop a diverse set of design solutions
		3.2.3	Identify suitable criteria for the evaluation of alternate design solutions
3.3	Demonstrate an ability to select an optimal design scheme for further development	3.3.1	Apply formal decision-making tools to select optimal engineering design solutions for further development
		3.3.2	Consult with domain experts and stakeholders to select candidate engineering design solution for further development
3.4	Demonstrate an ability to advance an engineering design to defined end state	3.4.1	Refine a conceptual design into a detailed design within the existing constraints (of the resources)
		3.4.2	Generate information through appropriate tests to improve or revise the design

PO 4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

	Competency		Indicators
4.1	Demonstrate an ability to conduct investigations of technical issues consistent with their level of knowledge and understanding	4.1.1	Define a problem, its scope and importance for purposes of investigation
		4.1.2	Examine the relevant methods, tools and techniques of experiment design, system calibration, data acquisition, analysis and presentation
		4.1.3	Apply appropriate instrumentation and/or software tools to make measurements of physical quantities
		4.1.4	Establish a relationship between measured data and underlying physical principles.

4.2	Demonstrate an ability to design experiments to solve open-ended problems	4.2.1	Design and develop an experimental approach, specify appropriate equipment and procedures
		4.2.2	Understand the importance of the statistical design of experiments and choose an appropriate experimental design plan based on the study objectives
4.3	Demonstrate an ability to analyze data and reach a valid conclusion	4.3.1	Use appropriate procedures, tools and techniques to conduct experiments and collect data
		4.3.2	Analyze data for trends and correlations, stating possible errors and limitations
		4.3.3	Represent data (in tabular and/or graphical forms) so as to facilitate analysis and explanation of the data, and drawing of conclusions
		4.3.4	Synthesize information and knowledge about the problem from the raw data to reach appropriate conclusions

PO 5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

	Competency		Indicators
5.1	Demonstrate an ability to identify/ create modern engineering tools, techniques and resources	5.1.1	Identify modern engineering tools such as computer-aided drafting, modeling and analysis; techniques and resources for engineering activities
		5.1.2	Create/adapt/modify/extend tools and techniques to solve engineering problems
5.2	Demonstrate an ability to select and apply discipline-specific tools, techniques and resources	5.2.1	Identify the strengths and limitations of tools for (i) acquiring information, (ii) modeling and simulating, (iii) monitoring system performance, and (iv) creating engineering designs.
		5.2.2	Demonstrate proficiency in using discipline-specific tools
5.3	Demonstrate an ability to evaluate the suitability and limitations of tools used to solve an engineering problem	5.3.1	Discuss limitations and validate tools, techniques and resources
		5.3.2	Verify the credibility of results from tool use with reference to the accuracy and limitations, and the assumptions inherent in their use.

PO 6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

	Competency		Indicators
6.1	Demonstrate an ability to describe engineering roles in a broader context, e.g. pertaining to the environment, health, safety, legal and public welfare	6.1.1	Identify and describe various engineering roles; particularly as pertains to protection of the public and public interest at the global, regional and local level
6.2	Demonstrate an understanding of professional engineering regulations, legislation and standards	6.2.1	Interpret legislation, regulations, codes, and standards relevant to your discipline and explain its contribution to the protection of the public

PO 7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and the need for sustainable development.

	Competency		Indicators
7.1	Demonstrate an understanding of the impact of engineering and industrial practices on social, environmental and in economic contexts	7.1.1	Identify risks/impacts in the life-cycle of an engineering product or activity
		7.1.2	Understand the relationship between the technical, socio-economic and environmental dimensions of sustainability

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7.2	Demonstrate an ability to apply principles of sustainable design and development	7.2.1	Describe management techniques for sustainable development
		7.2.2	Apply principles of preventive engineering and sustainable development to an engineering activity or product relevant to the discipline

PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Competency		Indicators	
8.1	Demonstrate an ability to recognize ethical dilemmas	8.1.1	Identify situations of unethical professional conduct and propose ethical alternatives
8.2	Demonstrate an ability to apply the Code of Ethics	8.2.1	Identify tenets of the ASME professional code of ethics
		8.2.2	Examine and apply moral & ethical principles to known case studies

PO 9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

Competency		Indicators	
9.1	Demonstrate an ability to form a team and define a role for each member	9.1.1	Recognize a variety of working and learning preferences; appreciate the value of diversity on a team
		9.1.2	Implement the norms of practice (e.g. rules, roles, charters, agendas, etc.) of effective team work, to accomplish a goal.
9.2	Demonstrate effective individual and team operations--communication, problem-solving, conflict resolution and leadership skills	9.2.1	Demonstrate effective communication, problem-solving, conflict resolution and leadership skills
		9.2.2	Treat other team members respectfully
		9.2.3	Listen to other members
		9.2.4	Maintain composure in difficult situations
9.3	Demonstrate success in a team-based project	9.3.1	Present results as a team, with smooth integration of contributions from all individual efforts

PO 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

Competency		Indicators	
10.1	Demonstrate an ability to comprehend technical literature and document project work	10.1.1	Read, understand and interpret technical and non-technical information
		10.1.2	Produce clear, well-constructed, and well-supported written engineering documents
		10.1.3	Create flow in a document or presentation - a logical progression of ideas so that the main point is clear
10.2	Demonstrate competence in listening, speaking, and presentation	10.2.1	Listen to and comprehend information, instructions, and viewpoints of others
		10.2.2	Deliver effective oral presentations to technical and non-technical audiences
10.3	Demonstrate the ability to integrate different modes of communication	10.3.1	Create engineering-standard figures, reports and drawings to complement writing and presentations
		10.3.2	Use a variety of media effectively to convey a message in a document or a presentation

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PO 11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Competency	Indicators
11.1 Demonstrate an ability to evaluate the economic and financial performance of an engineering activity	11.1.1 Describe various economic and financial costs/benefits of an engineering activity 11.1.2 Analyze different forms of financial statements to evaluate the financial status of an engineering project
11.2 Demonstrate an ability to compare and contrast the costs/benefits of alternate proposals for an engineering activity	11.2.1 Analyze and select the most appropriate proposal based on economic and financial considerations.
11.3 Demonstrate an ability to plan/manage an engineering activity within time and budget constraints	11.3.1 Identify the tasks required to complete an engineering activity, and the resources required to complete the tasks. 11.3.2 Use project management tools to schedule an engineering project, so it is completed on time and on budget.

PO 12: Life-long learning: Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Competency	Indicators
12.1 Demonstrate an ability to identify gaps in knowledge and a strategy to close these gaps	12.1.1 Describe the rationale for the requirement for continuing professional development 12.1.2 Identify deficiencies or gaps in knowledge and demonstrate an ability to source information to close this gap
12.2 Demonstrate an ability to identify changing trends in engineering knowledge and practice	12.2.1 Identify historic points of technological advance in engineering that required practitioners to seek education in order to stay current 12.2.2 Recognize the need and be able to clearly explain why it is vitally important to keep current regarding new developments in your field
12.3 Demonstrate an ability to identify and access sources for new information	12.3.1 Source and comprehend technical literature and other credible sources of information 12.3.2 Analyze sourced technical and popular information for feasibility, viability, sustainability, etc.

The above table can be used for most of the engineering programs. However, for Computer Science & Engineering/ Information Technology programs it requires some modifications.

A suggestive list of competencies and associated performance indicators for Computer Science & Engineering/ Information Technology **Programs is given in Appendix- A.**

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IMPROVING STRUCTURE AND QUALITY OF ASSESSMENTS

For improving the structure and quality of assessment in various engineering programs following points need to be remembered:

1. In Indian engineering education system, written examinations play a major role in assessing the learning and awarding of grades to the student. Universities and colleges give highest weightage to the outcomes of the written examinations in overall grading. Questions raised in the examination/test papers play an important role in defining the level of learning the student is expected to achieve in the courses and hence in the program. Since assessment drives learning, the design of question papers needs to go beyond the mere test of memory recall. They also need to test higher-order abilities and skills.

2. Written examinations assess a very limited range of outcomes and cognitive levels. Particularly in the courses, where course outcomes (COs) cover a broad range of expectations, written examinations alone will not be sufficient to make valid judgements about student learning. A wide range of assessment methods (e.g., term papers, open-ended problem-solving assignments, course/lab project rubrics, portfolios etc.) need to be employed to ensure that assessment methods match with learning outcomes.

3. It is advisable to formulate assessment plans for each of the course in the program that brings clarity to the following:

    a. Alignment of assessment with learning outcome of the course

    b. Level of learning (cognitive) student is expected to achieve

    c. Assessment method to be adapted

The method to align examination questions/assessment to COs and hence POs was discussed in the section-1. The following sections discuss the application of Bloom's taxonomy framework to create the optimal structure of examination papers to test the different cognitive skills.

1. Bloom's Taxonomy for Assessment Design

Bloom's Taxonomy provides an important framework to not only design curriculum and teaching methodologies but also to design appropriate examination questions belonging to various cognitive levels. Bloom's Taxonomy of Educational Objectives developed in 1956 by Benjamin Bloom [6] was widely accepted by educators for curriculum design and assessment. In 2001, Anderson and Krathwohl modified Bloom's taxonomy [7] to make it relevant to the present-day requirements. It attempts to divide learning into three types of domains (cognitive, affective, and behavioural) and then defines the level of performance for each domain. Conscious efforts to map the curriculum and assessment to these levels can help the programs to aim for higher-level abilities which go beyond remembering or understanding, and require application, analysis, evaluation or creation.

Revised Bloom's taxonomy in the cognitive domain includes thinking, knowledge, and application of knowledge. It is a popular framework in engineering education to structure the assessment as it characterizes complexity and higher-order abilities. It identifies six levels of competencies within the cognitive domain (Fig. 2) which are appropriate for the purposes of engineering educators.

According to revised Bloom's taxonomy, the levels in the cognitive domain are as follows:

Level	Descriptor	Level of attainment
1	Remembering	Recalling from the memory of the previously learned material
2	Understanding	Explaining ideas or concepts
3	Applying	Using the information in another familiar situation
4	Analysing	Breaking information into the part to explore understandings and relationships
5	Evaluating	Justifying a decision or course of action
6	Creating	Generating new ideas, products or new ways of viewing things

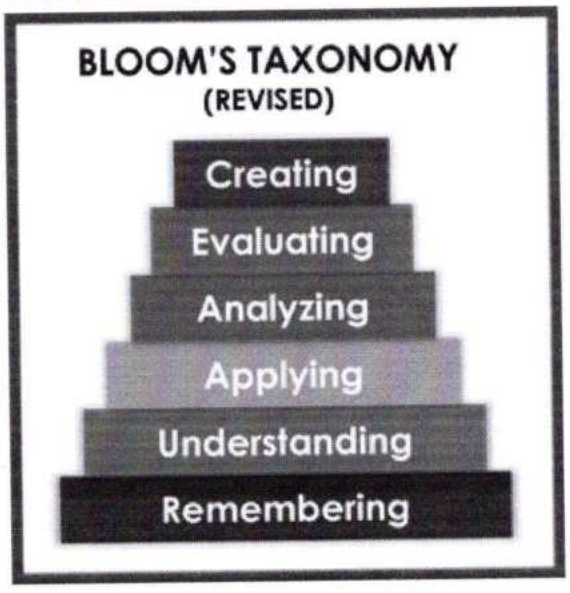

Fig. 2: Revised Bloom's Taxonomy

Bloom's taxonomy is hierarchical, meaning that learning at the higher level requires that skills at a lower level are attained.

2. Action Verbs for Assessment

Choice of action verbs in constructing assessment questions is important to consider. Quite often, the action verbs are indicators of the complexity (level) of the question. Over time, educators have come up with a taxonomy of measurable verbs corresponding to each of the Bloom's cognitive levels [8]. These verbs help us not only to describe and classify observable knowledge, skills and abilities but also to frame the examination or assignment questions that are appropriate to the level we are trying to assess.

Suggestive list of skills/ competencies to be demonstrated at each of the Bloom's level and corresponding cues/ verbs for the examination/ test questions is given below:

Level	Skill Demonstrated	Question cues / Verbs for tests
1. Remember	• Ability to recall of information like facts, conventions, definitions, jargon, technical terms, classifications, categories, and criteria • ability to recall methodology and procedures, abstractions, principles, and theories in the field • knowledge of dates, events, places • mastery of subject matter	list, define, tell, describe, recite, recall, identify, show, label, tabulate, quote, name, who, when, where
2. Understand	• understanding information • grasp meaning • translate knowledge into new context • interpret facts, compare, contrast • order, group, infer causes • predict consequences	describe, explain, paraphrase, restate, associate, contrast, summarize, differentiate interpret, discuss
3. Apply	• use information • use methods, concepts, laws, theories in new situations • solve problems using required skills or knowledge • Demonstrating correct usage of a method or procedure	calculate, predict, apply, solve, illustrate, use, demonstrate, determine, model, experiment, show, examine, modify
4. Analyse	• break down a complex problem into parts • Identify the relationships and interaction between the different parts of a complex problem • identify the missing information, sometimes the redundant information and the contradictory information, if any	classify, outline, break down, categorize, analyze, diagram, illustrate, infer, select
5. Evaluate	• compare and discriminate between ideas • assess value of theories, presentations • make choices based on reasoned argument • verify value of evidence • recognize subjectivity • use of definite criteria for judgments	assess, decide, choose, rank, grade, test, measure, defend, recommend, convince, select, judge, support, conclude, argue, justify, compare, summarize, evaluate
6. Create	• use old ideas to create new ones • Combine parts to make (new) whole, • generalize from given facts • relate knowledge from several areas • predict, draw conclusions	design, formulate, build, invent, create, compose, generate, derive, modify, develop, integrate

It may be noted that some of the verbs in the above table are associated with multiple Bloom's Taxonomy levels. These verbs are actions that could apply to different activities. We need to keep in mind that it's the skill, action or activity we need students to demonstrate that will determine the contextual meaning of the verb used in the assessment question.

3. Assessment Planning

While using Bloom's taxonomy framework in planning and designing of assessment of student learning, following points need to be considered:

1. Normally the first three learning levels; remembering, understanding and applying and to some extent fourth level analysing are assessed in the Continuous Internal Evaluation (CIE) and Semester End

Examinations (SEE), where students are given a limited amount of time. And abilities; analysis, evaluation and creation can be assessed in extended course works or in a variety of student works like course projects, mini/ minor projects, internship experience and final year projects.

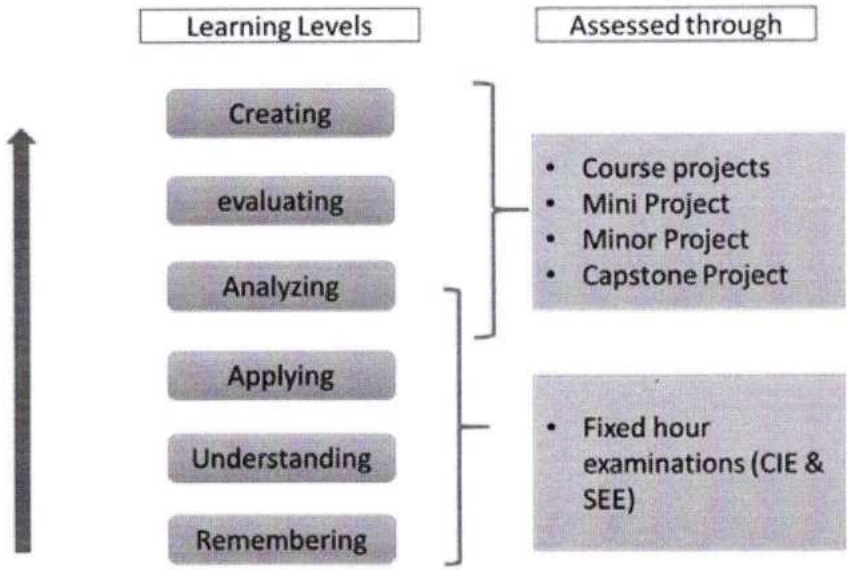

Fig. 3: Assessment methods for different Bloom's cognitive levels

2. Before adopting this framework for reforms in examination system of a University/Institution, it is worthwhile to study the present pattern of assessment in each of the course in the program to gain insight about:

    a) Alignment of assessment questions with course learning outcomes

    b) Whether all the learning outcomes are tested; sometimes some learning outcomes are over tested at the expense of others which may be not tested at all.

    c) Overall weightage in the assessment, to each of Bloom's learning levels

    d) Assessment methods used to adequately assess the content and desired learning outcomes

    Based on the study, improvement priorities for each of the above factors need to be arrived at. The reform process needs to be well planned and implemented through institutional strategy and communicated to all stakeholders particularly to the students.

3. A good and reasonable examination paper must consist of various difficulty levels to accommodate the different capabilities of students. Bloom's taxonomy framework helps the faculty to set examination papers that are well balanced, testing the different cognitive skills without a tilt towards a tough or easy paper perception. If the present examination questions are more focused towards lower cognitive skills, conscious efforts need to be made to bring in application skills or higher cognitive skills in the assessment. It is recommended that at institution/ University level, upper limit need to be arrived for lower order skills (for example, no more than 40% weightage for knowledge-oriented questions). It is important to note that, as nature of every course is different, the weightage for different cognitive levels in the question papers can also vary from course to course.

    - Examples of typical questions for each of Bloom's cognitive level are given in Appendix-B
    - Model Question Papers are given in Appendix- C

ASSESSING HIGHER-ORDER ABILITIES & PROFESSIONAL SKILLS

In the 21st century, professional skills (also known as soft skills, generic skills or transferable skills) have emerged as important attributes of a graduate engineer. Studies show that Industry/ employers around the world value these abilities more than the disciplinary knowledge. This is also reflected in the NBA graduate attributes wherein six out of twelve attributes belong to this category, viz. (1) communication, (2) teamwork, (3) understanding ethics and professionalism, (4) understanding global and societal contexts, (5) lifelong learning, and (6) knowledge of contemporary issues. Further, higher-order cognitive abilities like critical thinking, problem-solving and making informed decisions are also crucial for a graduate to succeed in the emerging world. Though the employers consider these professional skills and higher abilities as important, students are weak in them. The main challenge surrounding them is that they are difficult to assess through existing conventional examination system.

1. Innovative Educational Experiences to Teach and Assess

One of the main obstacles in addressing these outcomes is the limitation of educational experience we create within our engineering programs. Most of the coursework in our programs are oriented towards teaching technical knowledge and skills; hence, the assessment is limited to those abilities. However, acquiring the professional outcomes may not result simply from participation in a particular class or set of classes. Rather, these outcomes are more often acquired or influenced through sources both in and outside the classroom [4].

To address these challenges, comprehensive reforms are needed in the way we design our curriculum, student learning experiences and assessment of the outcomes. Worldwide several attempts are being made to address these challenges. Following are the few educational experiences that are recommended to teach and assess professional outcomes and higher-order cognitive abilities:

- Course projects
- Open-ended experiments in laboratories
- Project-based learning modules
- MOOCs
- Co-Curricular experiences
- Mini / Minor projects
- Final year projects
- Internship experiences
- E-portfolios of student works

2. Using Scoring Rubrics as Assessment Tool

To evaluate the above, student works for attainment of course outcomes and hence POs, it is of

utmost importance to have reliable methods / proper assessment tools. Rubrics provide a powerful tool for assessment and grading of student work. They can also serve as a transparent and inspiring guide to learning. Rubrics are scoring, or grading tool used to measure a students' performance and learning across a set of criteria and objectives. Rubrics communicate to students (and to other markers) your expectations in the assessment, and what you consider important.

There are three components within rubrics namely (i) criteria / performance Indicator: the aspects of performance that will be assessed, (ii) descriptors: characteristics that are associated with each dimension, and (iii) scale/level of performance: a rating scale that defines students' level of mastery within each criterion.

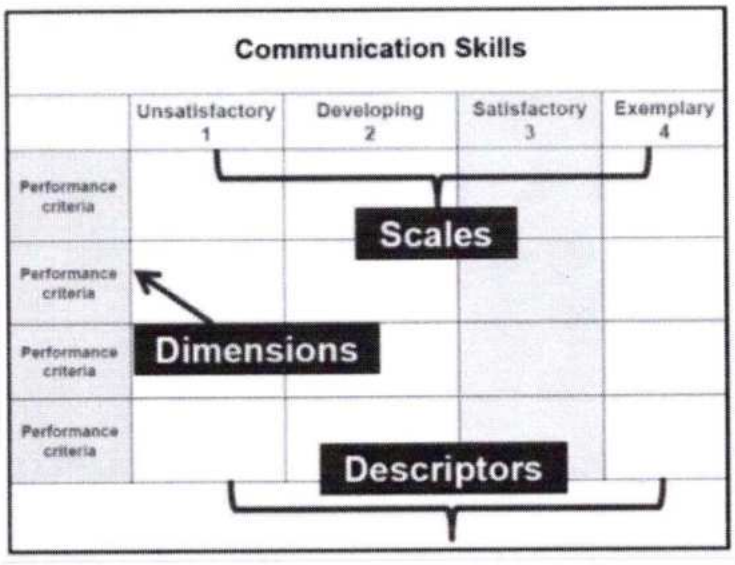

Fig. 4: Examples of Rubrics (Accessed from Rogers 2010)

3. Open-Book Examinations

In the earlier sections it was noted that the traditional written examinations have a significant weakness that they tend to encourage rote learning and more superficial application of knowledge. This deficiency can be overcome by "open-book examination". Open-book examination is similar to time constrained written examinations but designed in a way that allows students to refer to either class notes, textbooks, or other approved material while answering questions. They are particularly useful if you want to test skills in application, analysis and evaluation, i.e. higher levels of Bloom's taxonomy. However, in a program, the courses or the curriculum areas that are best suited to an open-book exam are to be carefully chosen.

Advantages of open-book examinations

1. Less demanding on memory and hence less stressful
2. Questions can emphasise more on problem-solving, application of knowledge and higher-order thinking rather than simple recall of facts.
3. Assessment questions can reflect real-life situations that require comprehension, information retrieval and synthesising skills of the students to solve.

Designing a good open-book examination

- Set questions that require students to do things with the information available to them, rather than to merely locate the correct information and then summarize or rewrite it.
- The questions in open-book exam must take advantage of the format, and give more weightage

to the application of knowledge, critical thinking and use of resources for solving real complex engineering problems.

- As the nature of questions is complex, it is to be ensured that the students get enough time. Open book test questions typically take longer time compared to traditional examinations. It is advisable either to set less number of questions that encompass 2 or 3 concepts taught or allocate longer duration of time for the examinations.

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APPENDIX

Competencies and Performance Indicators (PIs)
Computer Science & Engineering/Information Technology Programs

Appendix-A

PO 1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation for the solution of complex engineering problems.			
Competency		**Indicators**	
1.2	Demonstrate competence in mathematical modelling	1.2.1	Apply the knowledge of discrete structures, linear algebra, statistics and numerical techniques to solve problems
		1.2.2	Apply the concepts of probability, statistics and queuing theory in modeling of computer-based system, data and network protocols.
1.5	Demonstrate competence in basic sciences	1.5.1	Apply laws of natural science to an engineering problem
1.6	Demonstrate competence in engineering fundamentals	1.6.1	Apply engineering fundamentals
1.7	Demonstrate competence in specialized engineering knowledge to the program	1.7.1	Apply theory and principles of computer science and engineering to solve an engineering problem
PO 2: Problem analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
Competency		**Indicators**	
2.1	Demonstrate an ability to identify and formulate complex engineering problem	2.5.1	Evaluate problem statements and identifies objectives
		2.5.2	Identify processes/modules/algorithms of a computer-based system and parameters to solve a problem
		2.5.3	Identify mathematical algorithmic knowledge that applies to a given problem
2.6	Demonstrate an ability to formulate a solution plan and methodology for an engineering problem	2.6.1	Reframe the computer-based system into interconnected subsystems
		2.6.2	Identify functionalities and computing resources.
		2.6.3	Identify existing solution/methods to solve the problem, including forming justified approximations and assumptions
		2.6.4	Compare and contrast alternative solution/methods to select the best methods
		2.6.5	Compare and contrast alternative solution processes to select the best process.
2.7	Demonstrate an ability to formulate and interpret a model	2.7.1	Able to apply computer engineering principles to formulate modules of a system with required applicability and performance.
		2.7.2	Identify design constraints for required performance criteria.
2.8	Demonstrate an ability to execute a solution process and analyze results	2.8.1	Applies engineering mathematics to implement the solution.
		2.8.2	Analyze and interpret the results using contemporary tools.
		2.8.3	Identify the limitations of the solution and sources/causes.
		2.8.4	Arrive at conclusions with respect to the objectives.

PO 3: Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.			
	Competency		**Indicators**
3.5	Demonstrate an ability to define a complex/ open-ended problem in engineering terms	3.5.1	Able to define a precise problem statement with objectives and scope.
		3.5.2	Able to identify and document system requirements from stake- holders.
		3.5.3	Able to review state-of-the-art literature to synthesize system requirements.
		3.5.4	Able to choose appropriate quality attributes as defined by ISO/IEC/IEEE standard.
		3.5.5	Explore and synthesize system requirements from larger social and professional concerns.
		3.5.6	Able to develop software requirement specifications (SRS).
3.6	Demonstrate an ability to generate a diverse set of alternative design solutions	3.6.1	Able to explore design alternatives.
		3.6.2	Able to produce a variety of potential design solutions suited to meet functional requirements.
		3.6.3	Identify suitable non-functional requirements for evaluation of alternate design solutions.
3.7	Demonstrate an ability to select optimal design scheme for further development	3.7.1	Able to perform systematic evaluation of the degree to which several design concepts meet the criteria.
		3.7.2	Consult with domain experts and stakeholders to select candidate engineering design solution for further development
3.8	Demonstrate an ability to advance an engineering design to defined end state	3.8.1	Able to refine architecture design into a detailed design within the existing constraints.
		3.8.2	Able to implement and integrate the modules.
		3.8.3	Able to verify the functionalities and validate the design.
PO 4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
	Competency		**Indicators**
4.4	Demonstrate an ability to conduct investigations of technical issues consistent with their level of knowledge and understanding	4.4.1	Define a problem for purposes of investigation, its scope and importance
		4.4.2	Able to choose appropriate procedure/algorithm, dataset and test cases.
		4.4.3	Able to choose appropriate hardware/software tools to conduct the experiment.
4.5	Demonstrate an ability to design experiments to solve open-ended problems	4.5.1	Design and develop appropriate procedures/methodologies based on the study objectives
4.6	Demonstrate an ability to analyze data and reach a valid conclusion	4.6.1	Use appropriate procedures, tools and techniques to collect and analyze data
		4.6.2	Critically analyze data for trends and correlations, stating possible errors and limitations
		4.6.3	Represent data (in tabular and/or graphical forms) so as to facilitate analysis and explanation of the data, and drawing of conclusions
		4.6.4	Synthesize information and knowledge about the problem from the raw data to reach appropriate conclusions

PO 5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.			
Competency		**Indicators**	
5.4	Demonstrate an ability to identify/create modern engineering tools, techniques and resources	5.4.1	Identify modern engineering tools, techniques and resources for engineering activities
		5.4.2	Create/adapt/modify/extend tools and techniques to solve engineering problems
5.5	Demonstrate an ability to select and apply discipline-specific tools, techniques and resources	5.5.1	Identify the strengths and limitations of tools for (i) acquiring information, (ii) modeling and simulating, (iii) monitoring system performance, and (iv) creating engineering designs.
		5.5.2	Demonstrate proficiency in using discipline-specific tools
5.6	Demonstrate an ability to evaluate the suitability and limitations of tools used to solve an engineering problem	5.6.1	Discuss limitations and validate tools, techniques and resources
		5.6.2	Verify the credibility of results from tool use with reference to the accuracy and limitations, and the assumptions inherent in their use.

PO 6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
Competency		**Indicators**	
6.3	Demonstrate an ability to describe engineering roles in a broader context, e.g. pertaining to the environment, health, safety, legal and public welfare	6.3.1	Identify and describe various engineering roles; particularly as pertains to protection of the public and public interest at the global, regional and local level
6.4	Demonstrate an understanding of professional engineering regulations, legislation and standards	6.4.1	Interpret legislation, regulations, codes, and standards relevant to your discipline and explain its contribution to the protection of the public

PO 7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and the need for sustainable development.			
Competency		**Indicators**	
7.3	Demonstrate an understanding of the impact of engineering and industrial practices on social, environmental and in economic contexts	7.3.1	Identify risks/impacts in the life-cycle of an engineering product or activity
		7.3.2	Understand the relationship between the technical, socio-economic and environmental dimensions of sustainability
7.4	Demonstrate an ability to apply principles of sustainable design and development	7.4.1	Describe management techniques for sustainable development
		7.4.2	Apply principles of preventive engineering and sustainable development to an engineering activity or product relevant to the discipline

PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
Competency		**Indicators**	
8.3	Demonstrate an ability to recognize ethical dilemmas	8.3.1	Identify situations of unethical professional conduct and propose ethical alternatives

PRINCIPAL

8.4	Demonstrate an ability to apply the Code of Ethics	8.4.1 Identify tenets of the ASME professional code of ethics 8.4.2 Examine and apply moral & ethical principles to known case studies

PO 9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

Competency		Indicators
9.4	Demonstrate an ability to form a team and define a role for each member	9.4.1 Recognize a variety of working and learning preferences; appreciate the value of diversity on a team 9.4.2 Implement the norms of practice (e.g. rules, roles, charters, agendas, etc.) of effective team work, to accomplish a goal.
9.5	Demonstrate effective individual and team operations--communication, problem-solving, conflict resolution and leadership skills	9.5.1 Demonstrate effective communication, problem-solving, conflict resolution and leadership skills 9.5.2 Treat other team members respectfully 9.5.3 Listen to other members 9.5.4 Maintain composure in difficult situations
9.6	Demonstrate success in a team-based project	9.6.1 Present results as a team, with smooth integration of contributions from all individual efforts

PO 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

Competency		Indicators
10.4	Demonstrate an ability to comprehend technical literature and document project work	10.4.1 Read, understand and interpret technical and non-technical information 10.4.2 Produce clear, well-constructed, and well-supported written engineering documents 10.4.3 Create flow in a document or presentation - a logical progression of ideas so that the main point is clear
10.5	Demonstrate competence in listening, speaking, and presentation	10.5.1 Listen to and comprehend information, instructions, and viewpoints of others 10.5.2 Deliver effective oral presentations to technical and non-technical audiences
10.6	Demonstrate the ability to integrate different modes of communication	10.6.1 Create engineering-standard figures, reports and drawings to complement writing and presentations 10.6.2 Use a variety of media effectively to convey a message in a document or a presentation

PO 11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Competency		Indicators
11.4	Demonstrate an ability to evaluate the economic and financial performance of an engineering activity	11.4.1 Describe various economic and financial costs/benefits of an engineering activity 11.4.2 Analyze different forms of financial statements to evaluate the financial status of an engineering project
11.5	Demonstrate an ability to compare and contrast the costs/benefits of alternate proposals for an engineering activity	11.5.1 Analyze and select the most appropriate proposal based on economic and financial considerations.

11.6	Demonstrate an ability to plan/manage an engineering activity within time and budget constraints	11.6.1 Identify the tasks required to complete an engineering activity, and the resources required to complete the tasks. 11.6.2 Use project management tools to schedule an engineering project, so it is completed on time and on budget.
PO 12: Life-long learning: Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.		
	Competency	**Indicators**
12.4	Demonstrate an ability to identify gaps in knowledge and a strategy to close these gaps	12.4.1 Describe the rationale for the requirement for continuing professional development 12.4.2 Identify deficiencies or gaps in knowledge and demonstrate an ability to source information to close this gap
12.5	Demonstrate an ability to identify changing trends in engineering knowledge and practice	12.5.1 Identify historic points of technological advance in engineering that required practitioners to seek education in order to stay current 12.5.2 Recognize the need and be able to clearly explain why it is vitally important to keep current regarding new developments in your field
12.6	Demonstrate an ability to identify and access sources for new information	12.6.1 Source and comprehend technical literature and other credible sources of information 12.6.2 Analyze sourced technical and popular information for feasibility, viability, sustainability, etc.

PRINCIPAL

APPENDIX
Sample questions for Bloom's Taxonomy levels

Appendix-B

SAMPLES QUESTIONS FOR BLOOMS TAXONOMY LEVELS:

1. REMEMBER

Skill Demonstrated	Question Ques / Verbs for tests
• Ability to recall of information like, facts, conventions, definitions, jargon, technical terms, classifications, categories, and criteria • ability to recall methodology and procedures, abstractions, principles, and theories in the field • knowledge of dates, events, places • mastery of subject matter	list, define, describe, state, recite, recall, identify, show, label, tabulate, quote, name, who, when, where, etc.

Sample Questions:

1. State Ohm's law
2. List the physical and chemical properties of silicon
3. List the components of A/D converter
4. List the arithmetic operators available in C in increasing order of precedence.
5. Define the purpose of a constructor.
6. Define the terms: Sensible heat, Latent heat and Total heat of evaporation
7. List the assembler directives.
8. Describe the process of galvanisation and tinning
9. Write truth table and symbol of AND, OR, NOT, XNOR gates
10. Define the terms: Stress, Working stress and Factor of safety.
11. What is the difference between declaration and definition of a variable/function?
12. List the different storage class specifiers in C.
13. What is the use of local variables?
14. What is a pointer to a pointer?
15. What are the valid places for the keyword "break" to appear?
16. What is a self-referential structure?

2. UNDERSTAND

Skill Demonstrated	Question Ques / Verbs for tests
• understanding information • grasp meaning • translate knowledge into new context • interpret facts, compare, contrast • order, group, infer causes • predict consequences	describe, explain, paraphrase, restate, associate, contrast, summarize, differentiate interpret, discuss

Sample Questions:

1. Explain the importance of sustainability in Engineering design
2. Explain the behaviour of PN junction diode under different bias conditions
3. Describe the characteristics of SCR and transistor equivalent for a SCR
4. Explain the terms: Particle, Rigid body and Deformable body giving two examples for each.
5. How many values of the variable num must be used to completely test all branches of the following code fragment?

```
if (num>0)
    if (value<25)
{
        value=10*num;
        if(num<12)
                value=value/10;
}
else
        Value=20*num;
else
        Value=30*num
```

6. Discuss the effect of Make in India initiative on the Indian manufacturing Industry.
7. Summarise the importance of ethical code of conduct for engineering professionals
8. Explain the syntax for 'for loop'.
9. What is the difference between including the header file with-in angular braces < > and double quotes " "?
10. What is the meaning of base address of the array?
11. What is the difference between actual and formal parameters?
12. Explain the different ways of passing parameters to the functions.
13. Explain the use of comma operator (,).
14. Differentiate between entry and exit controlled loops.
15. How is an array different from linked list?

3. APPLY

Skill Demonstrated	Question Ques / Verbs for tests
• use information • use methods, concepts, laws, theories in new situations • solve problems using required skills or knowledge • Demonstrating correct usage of a method or procedure	calculate, predict, apply, solve, illustrate, use, demonstrate, determine, model, experiment, show, examine, modify

Sample Questions:

1. Model and realize the following behaviors using diodes with minimum number of digital inputs.

   (i) Turning on of a burglar alarm only during night time when the locker door is opened.

   (ii) Providing access to an account if either date of birth or registered mobile number or both are correct.

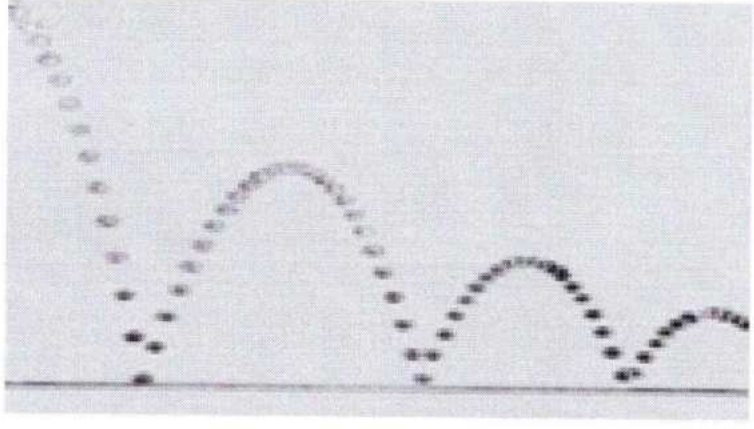
   (iii) Updating the parking slot empty light in the basement of a shopping mall.

2. One of the resource persons needs to address a huge crowd (nearly 400 members) in the auditorium. A system is to be designed in such a way that everybody attending the session should be able to hear properly and clearly without any disturbance. Identify the suitable circuit to boost the voice signal and explain its functionality in brief.

3. A ladder 5.0 m long rests on a horizontal ground & leans against a smooth vertical wall at an angle 20^0 with the vertical. The weight of the ladder is 900 N and acts at its middle. The ladder is at the point of sliding, when a man weighing 750 N stands on a rung 1.5 m from the bottom of the ladder. Calculate the coefficient of friction between the ladder & the floor.

4. A ball is dropped from 6 meters above a flat surface. Each time the ball hits the surface after falling a distance h, it rebounds a distance rh. What will be the total distance the ball travels in each of the following cases.

   (a) $r>1$ (b) $0<r<1$ (c) $r=1$



5. The region bounded by the curves y=e ^ ((-1)□x),y=0,x=1, and x=5 is rotated about the x-axis. Use Simpson's Rule with n=8 to estimate the volume of the resulting solid.

6. An electric train is powered by machine which takes the supply from 220 V DC rail running above the train throughout. Machine draws current of 100 A from the DC rail to account for high torque during starting and runs at 700 r.p.m initially. Calculate the new speed of the train once it picks up the speed

where the torque output required is only 70% of starting torque. Assume the motor has a resistance of 0.1Ω across its terminals.

7. Write an algorithm to implement a stack using queue.

8. A single array A[1..MAXSIZE] is used to implement two stacks. The two stacks grow from opposite ends of the array. Variables top1 and top2 (topl< top2) point to the location of the topmost element in each of the stacks. What is the condition for "stack full", if the space is to be used efficiently.

9. Consider the following table of arrival time and burst time for three processes P0, P1 and P2.

Process	Arrival time	Burst Time
P0	0 ms	9 ms
P1	1 ms	4 ms
P2	2 ms	9 ms

The pre-emptive shortest job first scheduling algorithm is used. Scheduling is carried out only at arrival or completion of processes. What is the average waiting time for the three processes?

10. A CPU generates 32-bit virtual addresses. The page size is 4 KB. The processor has a translation look-aside buffer (TLB) which can hold a total of 128-page table entries and is 4-way set associative. What is the minimum size of the TLB tag?

4. ANALYZE

Skill Demonstrated	Question Ques / Verbs for tests
• break down a complex problem into parts. • Identify the relationships and interaction between the different parts of complex problem	classify, outline, break down, categorize, analyse, diagram, illustrate, infer, select

Sample Questions:

1. A class of 10 students consists of 5 males and 5 females. We intend to train a model based on their past scores to predict the future score. The average score of females is 60 whereas that of male is 80. The overall average of the class is 70. Give two ways of predicting the score and analyse them for fitting model.

2. Suppose that we want to select between two prediction models, M1 and M2. We have performed 10 rounds of 10-fold cross-validation on each model, whereas the same data partitioning in round one is used for both M1 and M2. The error rates obtained for M1 are 30.5, 32.2, 20.7, 20.6, 31.0, 41.0, 27.7, 26.0, 21.5, 26.0. The error rates for M2 are 22.4, 14.5, 22.4, 19.6, 20.7, 20.4, 22.1, 19.4, 16.2, 35.0. Comment on whether one model is significantly better than the other considering a significance level of 1%.

3. Return statement can only be used to return a single value. Can multiple values be returned from a function? Justify your answer.

4. Bob wrote a program using functions to find sum of two numbers whereas Alex wrote the statements to find the sum of two numbers in the main() function only. Which of the two methods is efficient in execution and why?

5. Carly wants to store the details of students studying in 1st year and later on wishes to retrieve the

information about the students who score the highest marks in each subject. Specify the scenario where the data can be organized as a single 2-D array or as multiple 1-D arrays.

6. Dave is working on a Campus Management Software but is unable to identify the maximum number of students per course. He decided to implement the same using arrays but discovered that there is memory wastage due to over-provisioning. Which method of memory storage should be used by Dave and how it can be implemented using C?

7. Albert is working on a 32-bit machine whereas Julie is working on a 64-bit machine. Both wrote the same code to find factorial of a number but Albert is unable to find factorial of a number till 9 whereas Julie is able to find the factorial of higher number. Identify the possible reason why Albert is unable to find the factorial. Suggest some changes in the code so that Albert can handle bigger inputs.

8. While writing a C code, the problem faced by the programmers is to find if the parenthesis is balanced or not. Write an algorithm to check if the parenthesis in C code are balanced. Initially your code should work for balanced { and } braces.

9. Swapping of the data in a linked list can be performed by swapping the contents in the linked list. Can the contents of a linked list be swapped without actually swapping the data?

5. EVALUATE

Skill Demonstrated	Question Ques / Verbs for tests
• compare and discriminate between ideas • assess value of theories, presentations • make choices based on reasoned argument • verify value of evidence • recognize subjectivity • use of definite criteria for judgments	assess, decide, choose, rank, grade, test, measure, defend, recommend, convince, select, judge, support, conclude, argue, justify, compare, summarize, evaluate

6. CREATE

Skill Demonstrated	Question Ques / Verbs for tests
• use old ideas to create new ones • Combine parts to make (new) whole, • generalize from given facts • relate knowledge from several areas • predict, draw conclusions	design, formulate, build, invent, create, compose, generate, derive, modify, develop, integrate

Both higher order cognitive skills 'Evaluate' and 'Create' are difficult to assess in time-limited examinations. These need to be assessed in variety of student works like projects, open ended problem-solving exercises etc. Typical examples of problem statements or need statements which need higher order abilities to solve are given below

Sample Problem / Need statements:

1. Automatic tethering of milking machine to the udder of a cow. A milk diary wants to automate the milking process. The milking process involves attaching the milking cups to the teats. Design a system for the same.

2. An electric vehicle uses LIoN batteries. The batteries have to be charged and get discharged during use.

The batteries require continuous monitoring during charging and discharging so that they remain healthy and yield a long life. Design a system to monitor and manage the health of the batteries.

3. A Biotech industry needs automation for filling its product into 20 ltr bottles. Design a system to meter the flow into the bottles so that each bottle has 20 ltr of the liquid. There will be more than one filling station and the system has to monitor all the filling stations as well as keep count of the total production on a daily basis.
4. Microwave Doppler radar with a range of 9m are available for motion detection. Design a surround view monitoring system for a 3 wheeler to detect human obstacles while the vehicle is in motion.
5. Design a system to assist the driver by using cameras to detect lane markers and pedestrians while the vehicle is in motion.
6. Develop a small size USB 2.0 / 3.0 CMOS camera system which can be used for industrial inspection, medical applications, microscopy, etc. The system should be able to capture the image quickly and be able to process the captured image and then store it also

Appendix-C

MODEL QUESTION PAPER

Course: Programming for Problem solving (ESC 103)
Maximum Marks :100; Duration: 03 hours

Q.No	Questions	Marks	CO	BL	PI
1(a)	Explain the steps involved in solving a problem using computer.	08	CO1	L2	1.4.1
1(b)	Write an algorithm to find roots of a quadratic equation ax2 + bx +c = 0 reading the values of a, b and c.	12	CO2	L3	1.4.1
2(a)	Compare if-else-if and switch statement giving examples for their relevant use.	08	CO2	L2	1.4.1
2b	Write a C program that reads a given integer number and checks whether it a palindrome. A palindrome is a number that has same value even when it is reversed. Eg: 12321 is a palindrome.	12	CO3	L3	1.4.1
3a	Compare the working of three looping constructs of C language giving their syntax.	08	CO3	L2	1.4.1

3b	What does the following program do?
	#include <stdio.h>
	int main()
	{
	char ch;
	int vcnt = 0, ccnt=0;
	for (ch = getchar(); ch != '\n'; ch=getchar()){
	if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u' ||
	ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')
	vcnt++;
	else if((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z'))
	ccnt++;
	}
	printf(" %d %d\n", vcnt, ccnt);
	}
	Rewrite the above program using while and switch constructs.
		12	CO4	L4	1.4.1

4a	Compare call by value and call by reference with relevant examples.	8	CO3	L2	1.4.1
4b	Write a C function to find the largest and smallest in a given list of integers of size n using call by reference: void minmax(int list[ ], int n, int *min, int *max);	12	CO3	L3	1.4.1
5a	Explain at least four file handling operations available in C language giving their syntax.	4	CO3	L2	1.4.1
5b	Identify the bug in the following function written to return the swapped values of two integer variables given:				

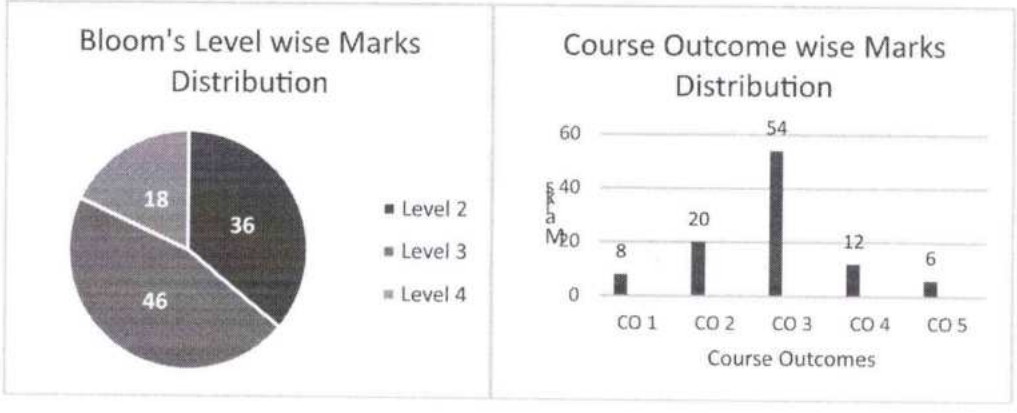
	int swap(int *x, int *y)
	{
	int *temp;
	temp = x, x=y, y = temp;
	}
		6	CO5	L4	1.4.1

5c	Define a structure to store time with three components hours, mins and seconds. Write a modular C program to compute the time taken by an athlete to complete a marathon reading the start and end time of his run.	10	CO3	L3	1.4.1

BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)

CO – Course Outcomes

PO – Program Outcomes; PI Code – Performance Indicator Code



MODEL QUESTION PAPER FOR END SEMESTER EXAMINATION

Course Name: Programming for Problem Solving
Duration: 3 hrs. ; Max. Marks: 100

Instructions:

a. Attempt five questions selecting ONE from each section. Question 9 (Section E) is compulsory.

b. All the questions carry equal marks.

c. Draw neat diagrams wherever applicable.

Q. No	Question	Marks	BL	CO	PO	PI Code
	Section-A					
1.	a. What is an algorithm? Explain the characteristics of an algorithm.	2+6	1,2	2	1	1.4.1
	b. Write an algorithm to find angle between hour and minute hands of a clock at a given time.	7	3	3	1	1.4.1
	c. Is it mandatory to declare main() function with return type as void or int. What will be the effect if there is no return type declared for main() function?	3+2	4	3	1	1.4.1
	OR					
2.	a. What is the difference between definition and declaration in C? When a user writes "int x;" is it treated as declaration or definition in C.	3+2	2,4	3	1	1.4.1
	b. Write a program in C to find largest of 3 positive integer numbers using conditional operators.	7	3	3	1,2	1.4.1, 2.2.4
	c. What is meant by iterative statements? What are the different types of iterative statements in C?	8	1,2	3	1	1.4.1
	Section-B					
3.	a. Bob has placed N objects in a row which are marked with a number equal to their weight in Kg. He wants to check whether the objects are in increasing order of their weights or not. Write a C program to help Bob.	12	3	3,6,7	1,2	1.4.1, 2.2.4
	b. Differentiate between Big-O and Big-Omega notation.	4	2	3	1	1.4.1
	c. What is the role of index in an array? How are the elements of a 2D array accessed in C?	2+2	2	3	1	1.4.1
	OR					
4.	a. Ram is conducting a study which is based on counting the number of cars crossing the highway. Every hour he generates a random string containing sequence of characters <rbwbwr...>, where r represents red color, w denotes white color and b denotes blue color cars. The string is forwarded to Shyam for analysis who computes the number of red, blue and white color cars crossing Ram every hour. Assume that Ram works for 5 hours in a day, help Shyam generate a daily report containing the following: i. Total number of different colour cars crossing Ram in an hour. ii. Total number of different colour cars crossing Ram in a day. iii. Total number of cars crossing Ram in a day.	4+4+4	3	3,6,7	1,2	1.4.1, 2.2.4

	b. What is a variable? Explain the ways to declare scope of a variable.	2+6	1,2	3	1	1.4.1
	Section-C					
5.	a. Write a program which will read positive integer numbers from the users and compute the sum if the number can be expressed as power of 2. The test whether a number can be expressed as power of 2 will be done using a function power_of_two(int a).	12	3	3,6,7	1,2	1.4.1
	b. What is recursion? Differentiate between homogeneous and heterogeneous recursion with the help of an example.	2+3+3	2	3	1	1.4.1
	OR					
6.	a. What are the different ways to pass parameters to a function? Explain with the help of a suitable example.	4+4	2	3,5	1	1.4.1
	b. Is it possible to return multiple values from a function? Justify the statement with the help of an example.	4+8	3	3,6,7	1,2	1.4.1
	Section-D					
7.	a. What is a structure? What is the benefit offered by using a structure over multiple arrays?	2+6	2	5	1	1.4.1
	b. Ram is working on a project which requires returning multiple values from a function. He observed that a return statement can only be used to return a single value from a function. How the function should be implemented so that multiple values can be returned by Ram?	12	4	5	1	1.4.1
	OR					
8.	a. Write a program that reads a number as input from the user. The entered number is written to a file "even.txt" if the input is even else it is written to "odd.txt". Write a C code to perform the desired task.	12	3	5	1	1.4.1
	b. What are the different methods to open a file? Explain each with the help of a C program.	3+5	2	5	1	1.4.1
	Section-E (Compulsory Question)					
9.	a. What is a compiler? List names of any 2 compilers.	2 ½	1	1	1	1.4.1
	b. What are the benefits of designing a flowchart for solving a problem?	2 ½	4	2	1	1.4.1

	c. What is the output of the following code?
	int main(){
	int x=10;
	int y=sizeof(x/2);
	printf("%d",y); }
		2 ½	3	4	1	1.4.1

	d. What is the difference between creating constant using #define macro and const keyword?	2 ½	3	3	1	1.4.1
	e. What is the role of function prototype? When is it required in C?	2 ½	2	3	1	1.4.1
	f. Which of the following are unary operators in C? State reason for your answer. a. ! b. sizeof c. ~ d. &&	2 ½	2	3	1	1.4.1

	g. Which of the following special symbol allowed in a variable name? State reason for your answer. a. * (asterisk) b. | (pipeline) c. - (hyphen) d. _ (underscore)	2 ½	2	3	1	1.4.1
	h. In which header file is the NULL macro defined? State reason for your answer. a. stdio.h b. stddef.h c. stdio.h and stddef.h d. math.h	2 ½	2	3	1	1.4.1

BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)

CO – Course Outcomes

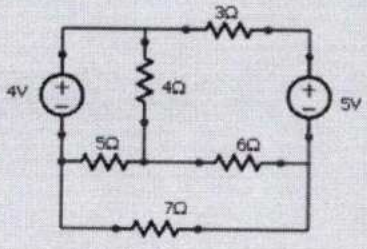
PO – Program Outcomes; PI Code – Performance Indicator Code

MODEL QUESTION PAPER

Total Duration (H:M): 3:00

Course : Basic Electrical Engineering (ESC101)

Maximum Marks :100

Q.No	Questions	Marks	CO	BL	PI
1(a)	Calculate current through 4 Ω resistor using Kirchoff's Laws? Verify the same using Superposition Theorem. 	12	CO1	L3	1.3.1
1(b)	Derive the expression for the transient current in a series 'R-L' circuit when a 'dc' voltage of V volts is applied. Sketch time variation of current in the circuit.	8	CO1	L2	1.3.1
2(a)	Two impedances Z1=15+j12Ω and Z2=8-j5 Ω are connected in parallel. If the potential difference across one of the impedance is 250 V, calculate i) total current and branch currents ii) total power and power consumed in each branch iii) overall p.f. IV) draw the phasor diagram	12	CO2	L3	1.3.1
2b	It is desired to operate a 100 W, 120 V, electric bulb at its rated current on a 240 V, 50 Hz supply. The simplest arrangement is to use either (a) a resistor, or (b) a capacitor or (c) an inductor having 10 Ω resistance in series with the electric bulb so as to drop the excess voltage. Determine the value of the component used, the total power consumed and the power factor in each case. Giving reasons, state which alternative is the best.	8	CO2	L4	1.3.1

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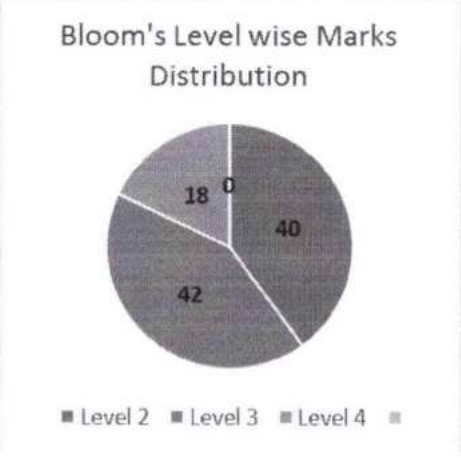
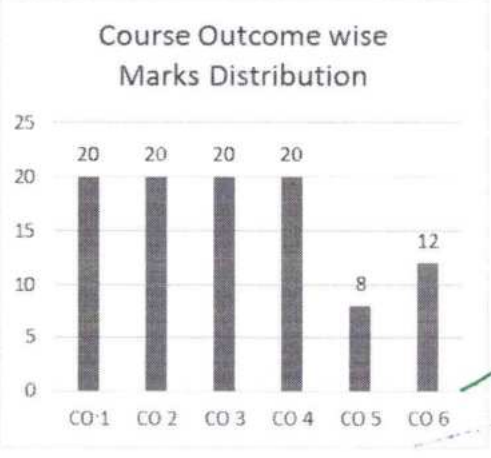
3a	A single phase 25 kVA 1000/2000 V, 50 Hz transformer has maximum efficiency of 98% at full load upf. Determine its efficiency at, (a) 3/4th full load, unity power factor (b) 3/4th full load 0.8 power factor	12	CO3	L3	1.3.1
3b	Explain the working of a practical transformer with relevant phasor diagram. and define voltage regulation.	8	CO3	L2	1.3.1
4a	A two pole 3 phase 50 Hz induction motor is running on load with a slip of 4%. Calculate the actual speed and the synchronous speed of the machine. Sketch the speed/ load characteristic of the machine.	8	CO4	L2	1.3.1
4b	A wireless battery powered drilling machine operates on 24 V DC with constant speed and negligible field current. Initially when the machine is powered it runs at 1200 rpm and draws 0.5 A from the battery. Further when the drill bit starts drilling the hole, the speed reduces to 1120 rpm. Determine power requirement from the battery for drilling if the resistance of the armature is 0.2Ω. What is the power drawn initially?	12	CO4	L4	1.3.1
5a	Explain the working principle of a single phase pulse width modulated voltage source inverter with relevant circuit diagram and draw the output voltage wave form.	8	CO5	L2	1.3.1
5b	To protect an expensive circuit component from being delivered too much power, you decide to incorporate a fast blowing fuse into the design. Knowing that the circuit component is connected to 12 V, its minimum power consumption is 12 watts and the maximum power it can safely dissipate is 100 watts, which of the three available fuse ratings should you select: 1A , 4A or 10 A? Give reasons.	6	CO6	L4	1.3.1
5c	Calculate the i) ampere-hour and ii) watt-hour efficiency of a secondary cell which is discharged at a uniform rate of 30 A for 6 hours at an average terminal voltage of 2 V. It is then charged at a uniform rate of 40 A for 5 hours to restore it to its original condition. The terminal voltage during charging is 2.5 V.	6	CO6	L3	1.3.1

BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)

CO – Course Outcomes

PO – Program Outcomes; PI Code – Performance Indicator Code





APPENDIX
Sample Scoring Rubrics

Appendix-D

RUBRICS FOR COMMUNICATION (WRITTEN & ORAL)

Component	Proficient	Acceptable	Needs Improvements
Written Communication	Report is well organized and clearly written. The underlying logic is clearly articulated and easy to follow. Words are chosen that precisely express the intended meaning and support reader comprehension. Diagrams or analyses enhance and clarify presentation of ideas. Sentences are grammatical and free from spelling errors.	Report is organized and clearly written for the most part. In some areas the logic or flow of ideas is difficult to follow. Words are well chosen with some minor exceptions. Diagrams are consistent with the text. Sentences are mostly grammatical and only a few spelling errors are present but they do not hinder the reader.	Report lacks an overall organization. Reader has to make considerable effort to understand the underlying logic and flow of ideas. Diagrams are absent or inconsistent with the text. Grammatical and spelling errors make it difficult for the reader to interpret the text in places.
Presentation Visual Aids	Slides are error-free and logically present the main components of the process and recommendations. Material is readable and the graphics highlight and support the main ideas.	Slides are error-free and logically present the main components of the process and recommendations. Material is mostly readable and graphics reiterate the main ideas.	Slides contain errors and lack a logical progression. Major aspects of the analysis or recommendations are absent. Diagrams or graphics are absent or confuse the audience.
Oral Presentation	Speakers are audible and fluent on their topic, and do not rely on notes to present or respond. Speakers respond accurately and appropriately to audience questions and comments.	Speakers are mostly audible and fluent on their topic, and require minimal referral to notes. Speakers respond to most questions accurately and appropriately.	Speakers are often inaudible or hesitant, often speaking in incomplete sentences. Speakers rely heavily on notes. Speakers have difficulty responding clearly and accurately to audience questions.
Body Language	Body language, as indicated by appropriate and meaningful gestures (e.g., drawing hands inward to convey contraction, moving arms up to convey lift, etc.) eye contact with audience, and movement, demonstrates a high level of comfort and connection with the audience.	Body language, as indicated by a slight tendency to repetitive and distracting gestures (e.g., tapping a pen, wringing hands, waving arms, clenching fists, etc.) and breaking eye contact with audience, demonstrates a slight discomfort with the audience.	Body language, as indicated by frequent, repetitive and distracting gestures, little or no audience eye-contact, and /or stiff posture and movement, indicate a high degree of discomfort interacting with audience.

RUBRICS FOR ASSESSMENT OF DESIGN PROJECTS

Category	Needs Improvements	Acceptable	Proficient
Purpose of the Project	Does not clearly explain the intended outcome of the project or provides little information about the problem that was being solved, the need being met, or why the project was selected	Provides a description of the intended outcome of the project which includes information about the problem that was being solved or the need being met, and why the project was selected	Provides a detailed intended outcome of the project which includes information about the problem that was being solved or the need being met, and clearly articulates the reasons and decision-making process used to select the project
Research	Lacks awareness of similar work done by others in an unacceptable literary form	Reflects awareness of similar work done by others and presents it in an acceptable literary format	•Reflects thorough understanding of similar work done by others and presents it in an acceptable literary format
Choices	Lacks justification of choices with little or no references to functional, aesthetic, social, economic, or environmental considerations	Justifies choices made with reference to functional, aesthetic, social, economic, or environmental considerations	Demonstrates sophisticated justification of choices with reference to functional, aesthetic, social, economic, or environmental consideration
Alternative Designs	Only one design presented or clearly infeasible alternative given. Serious deficiencies in exploring and identifying alternative designs.	Alternative approaches identified to some degree.	Final design achieved after review of reasonable alternatives.
Application of Engineering Principles	No or erroneous application of engineering principles yielding unreasonable solution. Serious deficiencies in proper selection and use of engineering principles.	Effective application of engineering principles resulting in reasonable solution.	Critical selection and application of engineering principles ensuring reasonable results.
Final Design	Not capable of achieving desired objectives.	Design meets desired objectives.	Design meets or exceeds desired objectives.
Interpretation of Results	No or erroneous conclusions based on achieved results. Serious deficiencies in support for stated conclusions.	Sound conclusions reached based on achieved results.	Insightful, supported conclusions and recommendations.

Rubrics can also be used effectively to design the continuous assessment of the student projects. The Performance Indicators referred to in the previous sections can be used measurement criteria in the rubric. In the following example, we can see that for different phases of the students projects, we can design the rubrics keeping in mind the deliverables of the project at that particular stage.

5 - SEMESTER MINI PROJECT

RUBRICS FOR REVIEW – I

PI Code	PI	Marks	Very Poor Up to 20%	Poor Up to 40%	Average Up to 60%	Good Up to 80%	Very good Up to 100%
2.1.1	Articulate problem statements and identify objectives - GA	02	Problem statement and objectives are not identified	Problem statement and objectives are not clear	Problem statement is clear and objectives are not in line with problem statement	Problem statement is clear and objectives are not completely defined.	Problem statement is clear and objectives are completely defined
2.1.2	Identify engineering systems, variables, and parameters to solve the problems - IA	02	Engineering systems are not identified. Variables, and parameters to solve the problems are not defined	Engineering systems are identified but not clear. Variables, and parameters to solve the problems are not defined	Engineering systems are clear. Variables, and parameters to solve the problems are not defined	Engineering systems are identified. Variables, and parameters to solve the problems are partially defined	Engineering systems are identified. Variables, and parameters to solve the problems are completely defined
2.2.3	Identify existing processes/ solution methods for solving the problem, including forming justified approximations and assumptions - GA	02	Not able to identify existing solution for solving the problem. The assumptions, approximations and justifications are also not identified.	Not able to identify existing solution for solving the problem. The assumptions, approximations and justifications are identified but not clear	Not able to identify existing solution for solving the problem. But assumptions and approximations are aligned to the objectives.	Able to identify existing solution for solving the problem. Assumptions, and approximations are clear	Able to identify existing solution for solving the problem. But assumptions, approximations and justifications are clear
2.2.4	Compare and contrast alternative solution processes to select the best process - GA	02	Not able to identify alternative solution processes	Not able to compare alternative solution processes	Able to compare alternative solution processes but could not contrast clearly	Able to compare alternative solution processes and contrast clearly but not able to select best process	Able to compare alternative solution processes, contrast it and also able to select best process
10.1.1	Read, understand and interpret technical and non-technical information - GA	02	Not able to identify technical and non-technical information	Able to identify non-technical information	Able to read technical and non-technical information, but could not understand and interpret	Able to read, understand technical and non-technical information, but could not interpret	Able to read, understand and interpret technical and non-technical information

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GA – Group Assessment IA – Individual Assessment

RUBRICS FOR REVIEW – II

PI Code	PI	Marks	Very Poor Up to 20%	Poor Up to 40%	Average Up to 60%	Good Up to 80%	Very good Up to 100%
3.2.1	Apply formal idea generation tools to develop multiple engineering design solutions - GA	02	Not able to identify tools to develop solutions	Able to identify but not able to use it effectively	Able to use the tool but not able to generate engineering designs	Able to generate engineering designs but not able to justify	Able to generate engineering designs with justification
3.2.3	Identify suitable criteria for evaluation of alternate design solutions - GA	02	Not able to identify criteria	Able to identify criteria but not able to use them	Able to use criteria but not able to compare alternatives	Not able to justify the comparison with criteria	Able to justify the comparison with criteria
3.3.1	Apply formal decision-making tools to select optimal engineering design solutions for further development - GA	02	Not able to identify decision-making tools	Able to identify but not able to choose optimum one	Able to identify optimum one but not able to use it	Able to use optimum one but not able to justify	Able to use optimum one with justification
3.2.2	Build models/ prototypes to develop diverse set of design solutions - IA	02	Not able to identify tool to build model/ prototype	Able to choose the tool but not able to use it effectively	Able to use the tool but not able to generate alternatives	Able to generate alternatives but not able to justify the best solution	Able to generate and justify the best solution
13.1.1	Develop 2D drawings of components/ systems using modern CAD tools - IA	02	Not able to identify CAD tools	Able to identify but not able to use CAD tool	Able to use CAD tool but not able to generate drawings	Able to generate drawings but not able to follow drawing standards	Able to generate drawings with standards
13.1.2	Develop 3D models of components/systems using modern CAD tools - IA	03	Not able to identify CAD tools	Able to identify but not able to use CAD tool	Able to use CAD tool but not able to generate 3D models	Able to generate models but not able to follow standards	Able to generate models with standards
13.1.3	Apply GD&T principles as per ASME standards to manufacturing drawings, with all relevant data like material, hardness, surface finish, and tolerances - IA	02	Not able to extract GD&T principles from ASME standards	Able to extract but not able to understand them	Able to understand but not able to apply GD&T standards	Able to apply GD&T standards to drawings but not able to justify	Able to apply and justify GD&T standards to drawings

PRINCIPAL

GA – Group Assessment IA – Individual Assessment

RUBRICS FOR REVIEW – III

PI Code	PI	Marks	Very Poor Up to 20%	Poor Up to 40%	Average Up to 60%	Good Up to 80%	Very good Up to 100%
3.4.2	Generate information through appropriate tests to improve or revise design - GA	02	Not able to identify suitable tests to be done	Able to identify but not able to follow testing procedure	Able to follow testing procedures but not able to collect information	Able to collect information but not able to apply it for improvement	Able to apply information for the improvement
4.3.1	Use appropriate procedures, tools and techniques to conduct experiments and collect data - GA	04	Not able to identify tools, techniques and procedures	Able to identify but not able to conduct experiments	Able to conduct experiments but not able to follow procedure	Able to follow procedure but not able to collect data	Able to collect data as per the standards
4.3.2	Analyze data for trends and correlations, stating possible errors and limitations - GA	03	Not able to understand data	Able to understand but not able to analyze data	Able to analyze data but not able to correlate them	Able to correlate but not able to identify errors and limitations	Able to identify errors and limitations
10.2.2	Deliver effective oral presentations to technical and non-technical audiences - IA	03	Could not deliver effective presentations.	Could not deliver presentation, but presentation was prepared and attempted.	Able to deliver fair presentation but not able to answer to the audiences	Deliver effective presentations but able to answer partially to the audience queries.	Deliver effective presentation and able to answer all queries of the audience.
9.3.1	Present results as a team, with smooth integration of contributions from all individual efforts – GA + IA	03	No Contribution from an individual to a team	Contributions from an individual to a team is minimal	Contributions from an individual to a team is moderate	A contribution from an individual to a team is good but not well groomed in team.	Contribution from an individual to a team is good and results in an integrated team presentation.

GA – Group Assessment IA – Individual Assessment

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AICTE COMMITTEE ON EXAMINATION REFORMS

Members of the Committee

1. **Prof. Ashok S. Shettar, Chairman**
   Vice Chancellor, KLE Technological University, Hubballi, Karnataka
2. **Prof. Rama Krishna Challa,**
   Head, Dept. of Computer Science and Engineering, NITTTR, Chandigarh
3. **Prof. Sanjay Agrawal**
   Dept. of Computer Engineering and Applications, NITTR, Bhopal (M.P)
4. **Prof. Upendra Pandel**
   Dept. of Metallurgical & Material Engineering, MNIT, Jaipur

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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by State Act No. 30 of 2008)

Kukatpally, Hyderabad, Telangana (India).

- **Academic requirements**

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

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

- **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.**

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Cherlapally (Vill.), R.R. Dist.

		(ii) Must have secured at least 18 credits out of 37 credits i.e., 50% credits up to first year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3.	**Second year first semester to second year second semester**	**Regular course of study of second year first semester.**
4	**Second year second semester to third year first semester**	**(i) Regular course of study of second year second semester.** **(ii) Must have secured at least 47 credits out of 79 credits i.e., 60% credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.**
5	**Third year first semester to third year second semester**	**Regular course of study of third year first semester.**
6	**Third year second semester to fourth year first semester**	**(i) Regular course of study of third year second semester.** **(ii) Must have secured at least 73 credits out of 123 credits i.e., 60% credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.**
7	**Fourth year first semester to fourth year second semester**	**Regular course of study of fourth year first semester.**

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

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

- A student eligible to appear in the semester end examination for any subject/ course, but absent from it or failed (thereby failing to secure **'C'** grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, internal marks (CIE) assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- A student **detained in a semester due to shortage of attendance may be re-admitted in the same semester in the next academic year for fulfillment of academic requirements**. The academic regulations under which a student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which the student has beendetained.
- student detained **due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits.** The academic regulations under which the student has been readmitted shall be applicable to him.
- **Evaluation - Distribution and Weightage of marks**
  - The performance of a student in every subject/course (including practical's and Project Stage – I & II) will be evaluated for 100 marks each, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).
  - For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the descriptive paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for descriptive paper). The objective paper is set with 20 multiple choice, fill-
  - in the blanks and matching type of questions for a total of 10 marks. The descriptive paper shall contain 4 full questions out of which, the student has to answer 2 questions, each carrying 5 marks. While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus. Five marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted

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

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

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

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

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

➢ For the Subject **Estimation, Costing and Project Management**, the SEE paper should consist of Part- A, Part-B and Part C. (i) Part – A – 1 out of 2 questions from Unit – I for 30 Marks, (ii) Part – B – 1 out of 2 questions from Unit – II for 15 Marks, (iii) Part – C – 3 out of 5 questions from Units – III, IV, V for 30 Marks.

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

- **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.
- There shall be a seminar presentation in IV year I semester. For the seminar, the student shall collect the information on a specialized topic, prepare a technical report, and submit it to the department. It shall be evaluated by the departmental committee consisting of Head of the Department, seminar supervisor and a senior faculty member. The seminar report shall be evaluated for 100 internal marks. There shall be no semester end examination for the seminar.
- UG project work shall be carried out in two stages: Project Stage – I during IV Year I Semester, Project Stage – II during IV Year II Semester. Each stage will be evaluated for 100 marks. Student has to submit project work report at the end of each semester. First report includes project work carried out in IV Year I semester and second report includes project work carried out in IV Year I & II Semesters. SEE for both project stages shall be completed before the commencement of SEE Theory examinations.
- For Project Stage – I, the departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall evaluate the project
- work for 75 marks and project supervisor shall evaluate for 25 marks. The student

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

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

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

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

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

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

- For mandatory courses of Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization lab, a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course. **These marks should also be uploaded along with the internal marks of other subjects.**

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

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www.aietg.ac.in email: principal.avanthi@gmail.com

Teaching Faculty Work Load I SEM for the Academic year 2021-22

S.No	Name of the faculty	Subjects	Class	No of periods	Total Workload
1	Dr.Kannan Ganapathi	IOMP	IV-EEE	3	8
		BEE	I CSE(DS)	5	
2	Dr.M.Surender Reddy	EHV	IV-EEE	5	11
		E&ED LAB	IV-EEE	6	
3	Dr.Anbalagan Kamal	BEE	I CSE-C	5	11
		BEE LAB	I CSE-C	6	
4	Dr.T.Kranti Kumar	ECA	II-EEE	5	5
5	E.Prasanna	HVDC T	IV-EEE	5	11
		BEE LAB	I CSE(DS)	6	
6	M.Satish Kumar	CS	III-ECE A&B	10	10
7	M.Ragini	EM-I	II-EEE	5	11
		EM-I LAB	II-EEE	6	
8	G.Pavan kumar	HVE	III-EEE	5	11
		BEE LAB	I CSE(DS)	6	
9	M.Shankar	M&I	III EEE	5	11
		M&I LAB	III-EEE	6	
10	B.Srikanth	EC LAB	II-EEE	6	12
		PSS LAB	III-EEE	6	
11	K.Madhavi	ECA LAB	II-EEE	6	11
		NA&TL	II-ECE-B	5	
12	D.Nageshwar Rao	EMF	II-EEE	5	10
		NA&TL	II-ECE-A	5	
13	S.Srikanth Reddy	PE	III-EEE	5	13
		PE LAB	III-EEE	6	
		SEMINAR	IV- EEE	2	
14	U. Ganesh	BEE LAB	I-CSE A	6	12
		BEE LAB	I-CSE B	6	
15	K. Chandra Shekar	PS-II	III- EEE	5	11
		PROJECT STAGE I	IV- EEE	6	
16	P. Saraswathi	BEE	I-CSE A&B	10	16
		BEE LAB	I-CSE A	6	

HOD

Head of the Department
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Teaching Faculty Work Load II SEM for the Academic year 2021-22

S.No	Name of the faculty	Subjects	Class	No of periods	Total Workload
1	Dr Kannan Ganapathi	NCSE	III-CSEA&B	5	12
		PROJECT STAGE-2	IV-EEE	7	
2	Dr M Surender Reddy	NCSE	IV-EEE	5	5
3	Dr.Anbalagan Kamal	EDS	IV-EEE	5	5
4	Dr.T.Kranti Kumar	PQ&FACTS	IV-EEE	5	12
		PROJECT STAGE-2	IV-EEE	7	
5	E.Prasanna	PS-I	II-EEE	5	5
6	M.Satish Kumar	CS	II-EEE	5	11
		CS LAB	II-EEE	6	
7	M.Ragini	PSP	III-EEE	5	11
		PS LAB	III-EEE	6	
8	G.Pavan kumar	PSD	III-EEE	5	12
		PROJECT STAGE-II	IV-EEE	7	
9	M.Shankar	NCES	III-EEE	5	12
		PROJECT STAGE-II	IV-EEE	7	
10	B.Srikanth	BEE	I-CSM	5	11
		BEE LAB	I-CSM	6	
11	K.Madhavi	BEEE	II-MECH	5	11
		BEEE LAB	II-MECH	6	
12	D.Nageshwar Rao	EM-II	II-EEE	5	11
		EM-II LAB	II-EEE	6	
13	S.Srikanth Reddy	BEE	I-ECE-B	5	11
		BEE LAB	I-ECE-B	6	
14	U.Ganesh	BEE LAB	I-ECE-B	6	6
15	K.Chandra Shekar	PSOC	III-EEE	5	5
16	P.Saraswathi	BEE	I-ECE-A	5	11
		BEE LAB	I-ECE-A	6	

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A.Y 2021-22 TIME TABLE

II B. Tech EEE I SEM **W.E. F:18-10-2021** **COLLEGE TIMINGS: 09.30AM –03.50PM**

DAY ⇩	9:30-10:20	10.20-11:10	11:10-12:00	12:00-12:50	12:50-01:20	01:20-2:10	2:10-3:00	3:00-3:50
MON	EM-I	EM-I / AE LAB			Lunch Break	EMF	EM	SPORTS
TUE	EMF	EM-I	EM	ECA		AE		LIB/INT
WED	EM	AE LAB /ECA LAB				EM-I	AE	DAA
THU	AE	EM-I	EMF	EM		ECA	GENDER SESTIZIATION	
FRI	ECA	ECA / EM-I LAB				EMF	ECA	COUN.
SAT	EM-I	AE	EMF	ECA		EM	GENDER SESTIZIATION	

Engineering Mechanics (EM)	M.VENKATESHWARLU
Electrical Circuit Analysis (ECA)	T. KRANTHI KUMAR
Analog Electronics (AE)	B. DASHARADHA
Electrical Machines - I (EM-I)	M.RAGINI
Electromagnetic Fields (EMF)	D.NAGESHWAR RAO
Electrical Machines Lab - I (EM-I LAB)	M.RAGINI
Analog Electronics Lab (AE LAB)	B.DASHARADHA/S.SAGAR
Electrical Circuits Lab (EC LAB)	B.SRIKANTH
Gender Sensitization Lab (GS LAB)	D.SRILAXMI

H.O.D (EEE)

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A.Y 2021-22 TIME TABLE

II B.Tech EEE II SEM **W.E. F:14-03-2022** **COLLEGE TIMINGS: 09.30AM –03.50PM**

DAY ⇩	9:30-10:20	10.20-11:10	11:10-12:00	12:00-12:50	12:50-01:20	01:20-2:10	2:10-3:00	3:00-3:50
MON	CS	EM-II	PS-I	DE	Lunch Break	LTNM&CV	SPORTS	
TUE	EM-II	DE	CS	PS-I		Constitution of India		LTNM&CV
WED	PS-I	DE LAB /CS LAB				EM-II	DE	PS-I(T) /CS(T)
THU	DE	CS	EM-II	LTNM&CV		PS-I	EMII(T)/ DE(T)	LIB / INT
FRI	LTNM&CV	EM-II /CS LAB				CS	PS-I	DE
SAT	CS(T)	DE /EM-II LAB				EM-II	CS	LTNM&CV

Laplace Transforms, Numerical Methods & Complex variables (LNCV)	D.SRILATHA
Electrical Machines – II (EM-II)	D.NAGESHWAR RAO
Digital Electronics (DE)	G. SRINIVAS
Control Systems (CS)	M.SATISH KUMAR
Power System - I (PS-I)	E. PRASANNA
Digital Electronics Lab (DE LAB)	G. SRINIVAS/DASHARADHA.B
Electrical Machines Lab - II (EM-II LAB)	D.NAGESHWAR RAO
Control Systems Lab (CS LAB)	M.SATISH KUMAR
Constitution of India (COI)	Dr RAMULU BHUKYA

HOD, EEE

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A.Y 2021-22 TIME TABLE

III B. Tech EEE I SEM **W.E. F:06-09-2021** **COLLEGE TIMINGS: 09.30AM –03.50PM**

DAY ⇩	9:30-10:20	10.20-11:10	11:10-12:00	12:00-12:50	12:50-01:20	01:20-2:10	2:10-3:00	3:00-3:50
MON	MI	HVE	PE	PS-II	Lunch Break	BEFA	IPR	SPORTS
TUE	BEFA	HVE	MI	PE		PSS LAB / PE LAB		
WED	PS-II	PE	HVE	BEFA		MI	IPR	DAA
THU	PE	BEFA	HVE	PS-II		MI LAB /PE LAB		
FRI	PS-II	MI	PE	HVE		IPR	INT/LIB	
SAT	MI	BEFA	ECA	PS-II		PSS LAB /MI LAB		

Power Electronics (PE)	S. SRIKANTH REDDY
Power System-II (PS-II)	K. CHANDRA SHEKAR
Measurements and Instrumentation (M&I)	M.SHANKAR
High Voltage Engineering (HVE)	G. PAVAN KUMAR
Business Economics and Financial Analysis (BEFA)	MD.ASHRAF HUSSAIN
Power System Simulation Lab (PSS LAB)	B. SRIKANTH
Power Electronics Lab (PE LAB)	S. SRIKANTH REDDY
Measurements and Instrumentation Lab (M&I LAB)	M.SHANKAR
Advanced Communication Skills Lab (ACS LAB)	SWARUPA KUMARI/N.RAMESH
Intellectual Property Rights (IPR)	M.S.S.V.SRI KUMAR

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A.Y 2021-22 TIME TABLE

III B. Tech EEE II SEM **W.E. F:10-02-2022** **COLLEGE TIMINGS: 09.30AM –03.50PM**

DAY ⇩	9:30-10:20	10.20-11:10	11:10-12:00	12:00-12:50	12:50-01:20	01:20-2:10	2:10-3:00	3:00-3:50
MON	PSOC	PSP	MPMC	SS	Lunch Break	PSD	NCES	SPORTS
TUE	MPMC	PS LAB/ MPMC SLAB				SS	PSP(T)	PSOC
WED	NCES	SS /MPMC LAB				SS	PSD	MPMC(T)
THU	SS	PSD	MPMC	SS		PSOC(T)	PSP	NCES
FRI	PSD	PS LAB / SS LAB				PSP	PSOC	MPMC
SAT	PSP	PSOC	NCES	SS(T)		PSD	NCES	INT/LIBRARY

Non-Conventional Energy Sources (NCES)	M.SHANKAR
Power Semiconductor Drives (PSD)	G. PAVAN KUMAR
Signals and Systems (S&S)	P. PADMAVATHI
Microprocessors & Microcontrollers (MP&MC)	V.GURAVAAIAH
Power System Protection (PSP)	M.RAGINI
Power System Operation and Control (PSOC)	K. CHANDRA SHEKAR
Power System Lab (PS LAB)	M.RAGINI
Microprocessors & Microcontrollers Lab (MP&MC LAB)	V.GURAVAAIAH/S.SAGAR
Signals and Systems Lab (S&S LAB)	P.PADMAVATHI/P.GEETHA
Environmental Science (ES)	B. BALAJI

HOD (EEE)

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A.Y 2021-22 TIME TABLE

IV B.Tech EEE I SEM **W.E. F:06-09-2021** **COLLEGE TIMINGS: 09.30AM –03.50PM**

DAY ⇩	9:30-10:20	10.20-11:10	11:10-12:00	12:00-12:50	12:50-01:20	01:20-2:10	2:10-3:00	3:00-3:50
MON	HVDC	FOM	POE	EHV`		MINI PROJECT		
TUE	HVDC	EHV	FOM	POE		PROJECT STAGE-I		
WED	FOM	POE	HVDC	EHV		SEMINAR		
THU	EHV	ED LAB				HVDC	LIB/INT	
FRI	POE	EHV	FOM	HVDC		MINI PROJECT		
SAT	HVDC	EHV	FOM			PROJECT STAGE-I		

Principles of Entrepreneurship (POE)	R. SHIRISHA
Electrical and Hybrid Vehicles (EHV)	Dr MANDADI SURENDER REDDY
HVDC Transmission (HVDC T)	E. PRASANNA
Fundamentals of Management for Engineers (FOM)	B. NAYEEMA
Electrical & Electronics Design Lab (E&ED LAB)	Dr MANDADI SURENDER REDDY
Industrial Oriented Mini Project/ Summer Internship	Dr KANNAN GANAPATHI
Seminar	SEELAM SRIKANTH REDDY
Project Stage - I	Dr KANNAN GANAPATHI /K. CHANDRA SHEKAR

H.O.D (EEE)

Head of the Department
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A.Y 2021-22 TIME TABLE

IV B.Tech EEE II SEM **W.E. F:10-02-2022** **COLLEGE TIMINGS: 09.30AM –03.50PM**

DAY ⇩	9:30-10:20	10.20-11:10	11:10-12:00	12:00-12:50	12:50-01:20	01:20-2:10	2:10-3:00	3:00-3:50
MON	NCSE	PQ & FACTS	EDS	Dept. Activity	LUNCH BREAK	SEMINAR		
TUE	PQ & FACTS	NCSE	EDS(T)	LIB/INT		PROJECT STAGE-II		
WED	EDS	PQ & FACTS(T)	NCSE(T)	SPORTS		PROJECT STAGE-II		
THU	EDS	NCSE	PQ & FACTSC	COMMUNICATION SKILLS		PROJECT STAGE-II		
FRI	NCSE	EDS	PQ & FACTS	LIB/INT		PROJECT STAGE-II		
SAT	PROJECT			SPORTS		SEMINAR		

Non-Conventional Sources of energy (NCSE)	Dr MANDADI SURENDER REDDY
Power Quality & FACTS (PQ&FACTS)	T. KARANTHI KUMAR
Electrical Distribution Systems (EDS)	Dr. ANBALAGAN KAMAL
Project Stage - II	Dr KANNAN GANAPATHI/T.KRANTHI KUMAR

H.O.D (EEE)

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Department of Electrical and Electronics Engineering

A.Y. 2021 – 2022

SYLLABUS COMPLETION STATUS FOR MID-I

IV-I EEE **Date: 05/11/2021**

S.NO	NAME OF THE SUBJECT	NAME OF THE FACULTY	SYLLABUS COVERED (No.of UNITS)	SIGNATURE
1	Principles of Entrepreneurship	R.SHIRISHA	2.5	Sirisha
2	HVDC Transmission	Dr MANDADI SURENDER REDDY	2.4	
3	Electrical and Hybrid Vehicles	E.PRASANNA	2.5	
4	Fundamentals of Management for Engineers	B.NAYEEMA	2.5	

III-I EEE **Date: 05/11/2021**

S.NO	NAME OF THE SUBJECT	NAME OF THE FACULTY	SYLLABUS COVERED (No.of UNITS)	SIGNATURE
1	Power Electronics	S.SRIKANTH REDDY	2.5	
2	Power System-II	K.CHANDRA SHEKAR	2.5	
3	Measurements and Instrumentation	M.SHANKAR	2.5	
4	High Voltage Engineering	G.PAVAN KUMAR	2.5	
5	Business Economics and Financial Analysis	MD.ASHRAF HUSSAIN	2.4	

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Department of Electrical and Electronics Engineering

A.Y. 2021 – 2022

SYLLABUS COMPLETION STATUS FOR MID-I

II-I EEE **Date: 10/12/2021**

S.NO	NAME OF THE SUBJECT	NAME OF THE FACULTY	SYLLABUS COVERED (No.of UNITS)	SIGNATURE
1	Engineering Mechanics	M.VENKATESHWARLU	2.4	
2	Electrical Circuit Analysis	T.KRANTHI KUMAR	2.5	
3	Analog Electronics	B.DASHARADHA	2.4	
4	Electrical Machines - I	M.RAGINI	2.5	
5	Electromagnetic Fields	D.NAGESHWAR RAO	2.5	

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SYLLABUS COMPLETION STATUS FOR MID-II

IV-I EEE **Date: 07/01/2022**

S.NO	NAME OF THE SUBJECT	NAME OF THE FACULTY	SYLLABUS COVERED (No.of UNITS)	SIGNATURE
1	Principles of Entrepreneurship	R.SHIRISHA	5	
2	HVDC Transmission	Dr MANDADI SURENDER REDDY	5	
3	Electrical and Hybrid Vehicles	E.PRASANNA	5	
4	Fundamentals of Management for Engineers	B.NAYEEMA	5	

III-I EEE **Date: 07/01/2022**

S.NO	NAME OF THE SUBJECT	NAME OF THE FACULTY	SYLLABUS COVERED (No.of UNITS)	SIGNATURE
1	Power Electronics	S.SRIKANTH REDDY	4.9	
2	Power System-II	K.CHANDRA SHEKAR	5	
3	Measurements and Instrumentation	M.SHANKAR	5	
4	High Voltage Engineering	G.PAVAN KUMAR	5	
5	Business Economics and Financial Analysis	MD.ASHRAF HUSSAIN	5	

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A.Y. 2021 – 2022

SYLLABUS COMPLETION STATUS FOR MID-II

II-I EEE **Date: 12/02/2022**

S.NO	NAME OF THE SUBJECT	NAME OF THE FACULTY	SYLLABUS COVERED (No.of UNITS)	SIGNATURE
1	Engineering Mechanics	M.VENKATESHWARLU	5	
2	Electrical Circuit Analysis	T.KRANTHI KUMAR	5	
3	Analog Electronics	B.DASHARADHA	4.9	
4	Electrical Machines - I	M.RAGINI	5	
5	Electromagnetic Fields	D.NAGESHWAR RAO	5	

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SYLLABUS COMPLETION STATUS FOR MID-I

IV-II EEE **Date:05/04/2022**

S.NO	NAME OF THE SUBJECT	NAME OF THE FACULTY	SYLLABUS COVERED (No.of UNITS)	SIGNATURE
1	Non-Conventional Sources of energy	Dr MANDADI SURENDER REDDY	2.4	
2	Power Quality & FACTS	T.KARANTHI KUMAR	2.5	
3	Electrical Distribution Systems	Dr.ANBALAGAN KAMAL	2.5	

III-II EEE **Date: 05/04/2022**

S.NO	NAME OF THE SUBJECT	NAME OF THE FACULTY	SYLLABUS COVERED (No.of UNITS)	SIGNATURE
1	Non-Conventional Energy Sources	M.SHANKAR	2.5	
2	Power Semiconductor Drives	G.PAVAN KUMAR	2.5	
3	Signals and Systems	P.PADMAVATHI	2.4	
4	Microprocessors & Microcontrollers	V.GURAVAAIAH	2.5	
5	Power System Protection	M.RAGINI	2.4	
6	Power System Operation and Control	K.CHANDRA SHEKAR	2.5	

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SYLLABUS COMPLETION STATUS FOR MID-I

II-II EEE **Date: 27/05/2022**

S.NO	NAME OF THE SUBJECT	NAME OF THE FACULTY	SYLLABUS COVERED (No.of UNITS)	SIGNATURE
1	Laplace Transforms, Numerical Methods & Complex variables	D.SRILATHA	2.4	
2	Electrical Machines – II	D.NAGESHWAR RAO	2.5	
3	Digital Electronics	G.SRINIVAS	2.4	
4	Control Systems	M.SATISH KUMAR	2.5	
5	Power System - I	E.PRASANNA	2.5	

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A.Y. 2021 – 2022

SYLLABUS COMPLETION STATUS FOR MID-II

IV-II EEE **Date: 24/06/2022**

S.NO	NAME OF THE SUBJECT	NAME OF THE FACULTY	SYLLABUS COVERED (No.of UNITS)	SIGNATURE
1	Non-Conventional Sources of energy	Dr MANDADI SURENDER REDDY	5	
2	Power Quality & FACTS	T.KARANTHI KUMAR	5	
3	Electrical Distribution Systems	Dr.ANBALAGAN KAMAL	4.9	

III-II EEE **Date:24/06/2022**

S.NO	NAME OF THE SUBJECT	NAME OF THE FACULTY	SYLLABUS COVERED (No.of UNITS)	SIGNATURE
1	Non-Conventional Energy Sources	M.SHANKAR	5	
2	Power Semiconductor Drives	G.PAVAN KUMAR	5	
3	Signals and Systems	P.PADMAVATHI	5	
4	Microprocessors & Microcontrollers	V.GURAVAAIAH	5	
5	Power System Protection	M.RAGINI	4.9	
6	Power System Operation and Control	K.CHANDRA SHEKAR	5	

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SYLLABUS COMPLETION STATUS FOR MID-II

II-II EEE **Date: 30/07/2022**

S.NO	NAME OF THE SUBJECT	NAME OF THE FACULTY	SYLLABUS COVERED (No.of UNITS)	SIGNATURE
1	Laplace Transforms, Numerical Methods & Complex variables	D.SRILATHA	5	
2	Electrical Machines – II	D.NAGESHWAR RAO	5	
3	Digital Electronics	G.DRINIVAS	4·9	
4	Control Systems	M.SATISH KUMAR	5	
5	Power System - I	E.PRASANNA	5	

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Cir./Exam Section/0001 Date: 04-11-2021

Attention all the III, IV B. TECH I SEM students are here by informing you that MID-I examinations will be conducted from 08-11-2021 to 10-11-2021.

Time: FN: 09.40 AM TO 11.00 AM

AN: 01.40 PM TO 03.00 PM

Note: HOD's are requested to circulate among all concern students.

HOD	CSE	CSM & CSD	ECE	EEE	MECH
Signature					

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Cir./Exam Section/0002

Date: 09-12-2021

Attention all the II B.TECH I SEM students are here by informing you that MID-I examinations will be conducted from 13-12-2021 to 15-12-2021.

Time: FN: 09.40 AM TO 11.00 AM

AN: 01.40 PM TO 03.00 PM

Note: HOD's are requested to circulate among all concern students.

HOD	CSE	CSM & CSD	ECE	EEE	MECH
Signature					

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Cir./Exam Section/0003 Date: 11-01-2022

Attention all the III, IV B.TECH I SEM students are here by informing you that MID-II examinations will be conducted from 19-01-2022 to 21-01-2022.

Time: FN: 09.40 AM TO 11.00 AM

AN: 01.40 PM TO 03.00 PM

Note: HOD's are requested to circulate among all concern students.

HOD	CSE	CSM & CSD	ECE	EEE	MECH
Signature					

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Cir./Exam Section/0004

Date: 10-02-2022

Attention all the I B.TECH I SEM students are here by informing you that MID-I examinations will be conducted from 14-02-2022 to 15-02-2022.

Time: FN: 09.40 AM TO 11.00 AM

AN: 01.40 PM TO 03.00 PM

Note: HOD's are requested to circulate among all concern students.

HOD	CSE	CSM & CSD	ECE	EEE	MECH	BS&H
Signature						

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Cir./Exam Section/0005 Date: 10-02-2022

Attention all the II B.TECH I SEM students are here by informing you that MID-II examinations will be conducted from 14-02-2022 to 16-02-2022.

Time: FN: 09.40 AM TO 11.00 AM

AN: 01.40 PM TO 03.00 PM

Note: HOD's are requested to circulate among all concern students.

HOD	CSE	CSM & CSD	ECE	EEE	MECH
Signature					

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Cir./Exam Section/0006 Date: 26-04-2022

Attention all the III, IV B.TECH II SEM students are here by informing you that MID-I examinations will be conducted from 02-05-2022 to 06-05-2022.

Time: FN: 09.40 AM TO 11.00 AM

AN: 01.40 PM TO 03.00 PM

Note: HOD's are requested to circulate among all concern students.

HOD	CSE	CSM & CSD	ECE	EEE	MECH
Signature					

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Cir./Exam Section/0007 Date: 02-05-2022

Attention all the I B.TECH I SEM students are here by informing you that MID-II examinations will be conducted from 06-05-2022 to 07-05-2022.

Time: FN: 09.40 AM TO 11.00 AM

AN: 01.40 PM TO 03.00 PM

Note: HOD's are requested to circulate among all concern students.

HOD	CSE	CSM & CSD	ECE	EEE	MECH	BS&H
Signature						

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Cir./Exam Section/0008 Date: 26-05-2022

Attention all the II B.TECH II SEM students are here by informing you that MID-I examinations will be conducted from 31-05-2022 to 03-06-2022.

Time: FN: 09.40 AM TO 11.00 AM

AN: 01.40 PM TO 03.00 PM

Note: HOD's are requested to circulate among all concern students.

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Cir./Exam Section/0009 Date: 06-07-2022

Attention all the III, IV B.TECH II SEM students are here by informing you that MID-II examinations will be conducted from 11-07-2022 to 16-07-2022.

Time: FN: 09.40 AM TO 11.00 AM

AN: 01.40 PM TO 03.00 PM

Note: HOD's are requested to circulate among all concern students.

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Cir./Exam Section/0010 Date: 06-08-2022

Attention all the II B.TECH II SEM students are here by informing you those MID-II examinations will be conducted from 10-08-2022 to 12-08-2022.

Time: FN: 09.40 AM TO 11.00 AM

AN: 01.40 PM TO 03.00 PM

Note: HOD's are requested to circulate among all concern students.

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Signature					

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Cir./Exam Section/0011 Date: 10-08-2022

Attention all the I B.TECH II SEM students are here by informing you that MID-I examinations will be conducted from 16-08-2022 to 17-08-2022.

Time: FN: 09.40 AM TO 11.00 AM

AN: 01.40 PM TO 03.00 PM

Note: HOD's are requested to circulate among all concern students.

HOD	CSE	CSM & CSD	ECE	EEE	MECH	BS&H
Signature						

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Cir./Exam Section/0012 Date: 27-10-2022

Attention all the I B.TECH II SEM students are here by informing you that MID-II examinations will be conducted from 01-11-2022 to 02-11-2022.

Time: FN: 09.40 AM TO 11.00 AM

AN: 01.40 PM TO 03.00 PM

Note: HOD's are requested to circulate among all concern students.

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KUKATPALLY - HYDERABAD – 500085

EXAMINATION BRANCH

II YEAR B.TECH I SEMESTER R18 REGULATION I -MID TERM EXAMINATIONS DEC-2021(IN OFFLINE MODE)

TIMETABLE

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

BRANCH	DATE, SESSION AND DAY					
	13-12-2021 FN MONDAY	13-12-2021 AN MONDAY	14-12-2021 FN TUESDAY	14-12-2021 AN TUESDAY	15-12-2021 FN WEDNESDAY	15-12-2021 AN 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	Mechanics of Solids	Material Science and Metallurgy	Production Technology	Thermodynamics	---

DATE: 03-12-2021

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY - HYDERABAD – 500085

EXAMINATION BRANCH

II YEAR B.TECH I SEMESTER R18 REGULATION I -MID TERM EXAMINATIONS DEC-2021(IN OFFLINE MODE)

TIMETABLE

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BRANCH	DATE, SESSION AND DAY					
	13-12-2021 FN MONDAY	13-12-2021 AN MONDAY	14-12-2021 FN TUESDAY	14-12-2021 AN TUESDAY	15-12-2021 FN WEDNESDAY	15-12-2021 AN WEDNESDAY
ELECTRONICS & COMMUNICATIONS ENGINEERING (04- ECE)	Probability Theory and Stochastic Processes	Network Analysis and Transmission Lines	Digital System Design	Signals and Systems	Electronic Devices and Circuits	--
COMPUTER SCIENCE & ENGINEERING (05- CSE)	Analog and Digital Electronics	Data Structures	Computer Oriented Statistical Methods	Object Oriented Programming using C++	Computer Organization and Architecture	--
ELECTRONICS AND INSTRUMSNTTATION ENGINEERING (10EIE)	Electronic Measurements	Network Theory	Transducers Engineering	Signals and Systems	Electronic Devices and Circuits	--

DATE: 03-12-2021

CONTINUED ON PAGE –3

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II YEAR B.TECH I SEMESTER R18 REGULATION I -MID TERM EXAMINATIONS DEC-2021(IN OFFLINE MODE)

TIMETABLE

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BRANCH	DATE, SESSION DAY					
	13-12-2021 FN MONDAY	13-12-2021 AN MONDAY	14-12-2021 FN TUESDAY	14-12-2021 AN TUESDAY	15-12-2021 FN WEDNESDAY	15-12-2021 AN WEDNESDAY
COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) (66-CSE(AI&ML)	Discrete Mathematics	Data Structures	Mathematical and Statistical Foundations	Python Programming	Computer Organization and Architecture	Business Economics & Financial Analysis
COMPUTER SCIENCE AND ENGINEERING (DATASCIENCE) (67-CSE(DS)	Discrete Mathematics	Data Structures	Mathematical and Statistical Foundations	Python Programming	Computer Organization and Architecture	Business Economics & Financial Analysis
COMPUTER SCIENCE AND ENGINEERING (IOT) (69-CSE(IOT)	Analog and Digital Electronics	Data Structures	Computer Oriented Statistical Methods	Python Programming	Discrete Mathematics	
COMPUTER SCIENCE AND ENGINEERING (NETWORKS) (70-CSE(NETWORKS)	Analog and Digital Electronics	Data Structures	Computer Oriented Statistical Methods	Python Programming	Computer Organization and Architecture	----

DATE: 03-12-2021

Sd/-
CONTROLLER OF EXAMINATIONS

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

(I) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL

(II) READMITTED STUDENTS HAVE TO APPEAR FOR THE SUBSTITUTE SUBJECT(S) [WHICH IS/ARE NOT SHOWN IN THE TIME-TABLE] IN PLACE OF THE SUBJECT(S) ALREADY SED. FOR DETAILS OF SUBSTITUTE SUBJECTS REFER THE COMMUNICATIONS RECEIVED FROM THE DIRECTOR OF ACADEMIC & PLANNING

III) THE PATTERN OF THE DESCRIPTIVE AND OBJECTIVE TYPE PAPERS SHALL BE IN REGULAR PATTERN AS GIVEN IN R18 REGULATION

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EXAMINATION BRANCH

III YEAR B.TECH –I SEMESTER – R18 REGULATION I MID TERM EXAMINATIONS NOVEMBER-2021-(IN OFFLINE MODE)

TIMETABLE

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

BRANCH	DATE, SESSION AND DAY					
	08-11-2021 FN MONDAY	08-11-2021 AN MONDAY	09-11-2021 FN TUESDAY	09-11-2021 AN TUESDAY	10-11-2021 FN WEDNESDAY	10-11-2021 AN WEDNESDAY
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 Machinery Common to (CE, MME)
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)	Computer Architecture High Voltage Engineering Electrical Machine Design	---
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: 30-10-2021

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EXAMINATION BRANCH

III YEAR B.TECH –I SEMESTER – R18 REGULATION I MID TERM EXAMINATIONS NOVEMBER-2021-(IN OFFLINE MODE)

TIMETABLE

TIME→ FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBECTIVE EXAM: 10.40 AM TO 11.00 AM)
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BRANCH	DATE, SESSION AND DAY					
	08-11-2021 FN MONDAY	08-11-2021 AN MONDAY	09-11-2021 FN TUESDAY	09-11-2021 AN TUESDAY	10-11-2021 FN WEDNESDAY	10-11-2021 AN WEDNESDAY
ELECTRONICS & COMMUNICATIONS ENGINEERING (04- ECE)	Microprocessor & Microcontrollers Common to (ECE, EIE)	Data Communications and Networks	Control Systems Common to (ECE, EIE)	Business Economics & Financial Analysis Common to (EEE ,ME, ECE, ,EIE,MCT, AE)	Error Correcting Codes	-----
					Electronic Measurements and Instrumentation	
					Computer Organization & Operating Systems	
COMPUTER SCIENCE & ENGINEERING (05- CSE)	Formal Languages & Automata Theory Common to (CSE, IT)	Software Engineering Common to (CSE, IT)	Computer Networks	Web Technologies	Information Theory & Coding	Computer Graphics Common to (CSE, IT)
					Advanced Computer Architecture Common to (CSE, IT)	Advanced Operating Systems Common to (CSE, IT)
					Data Analytics Common to (CSE, IT)	Informational Retrieval Systems
					Image Processing Common to (CSE, IT)	Distributed Databases
					Principles of Programming Languages Common to (CSE, IT)	Natural Language Processing
ELECTRONICS AND INSTRUMSNTTATIO N ENGINEERING (10-EIE)	Microprocessor & Microcontrollers Common to (ECE, EIE)	Process Dynamics and Control	Control Systems Common to (ECE, EIE)	Business Economics & Financial Analysis Common to (EEE ,ME, ECE, ,EIE,MCT, AE)	Instrumentation Practices in Industries	---
					Operating Systems	
					Robotics and Automation	

DATE: 30-10-2021

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EXAMINATION BRANCH

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

TIME TABLE

TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBECTIVE EXAM:12.40 PM TO 1.00 PM)
AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	DATE, SESSIONAND DAY			
	14-02-2022 FN MONDAY	14-02-2022 AN MONDAY	15-02-2022 FN TUESDAY	15-02-2022 AN TUESDAY
CIVIL ENGINEERING (01-C E)	Mathematics-I	Programming for Problem Solving	Engineering Physics	---
ELECTRICAL AND ELECTRONICS ENGINEERING (02- EEE)	Mathematics-I	Chemistry	Basic Electrical Engineering	English
MECHANICAL ENGINEERING (03-ME)	Mathematics-I	Programming for Problem Solving	Engineering Physics	---
ELECTRONICS & COMMUNICATIONS ENGINEERING (04- ECE)	Mathematics-I	Programming for Problem Solving	Applied Physics	---

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EXAMINATION BRANCH

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

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

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EXAMINATION BRANCH

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

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

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EXAMINATION BRANCH

IV YEAR B.TECH – I SEMESTER– R18 REGULATION I - MID TERM EXAMINATIONS NOVEMBER-2021-(IN OFFLINE MODE)

TIME TABLE

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BRANCH	08-11-2021 FN MONDAY	08-11-2021 AN MONDAY	09-11-2021 FN TUESDAY	09-11-2021 AN TUESDAY	10-11-2021 FN WEDNESDAY
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Fundamentals of Management for Engineers	---	E3	E4	OE2
			Digital Control systems	HVDC Transmission	Data Structures Artificial Intelligence Remote Sensing & GIS
			Digital Signal Processing	Power System Reliability	Python Programming Java Programming
			Electrical and Hybrid Vehicles	Industrial Electrical Systems	Fundamentals of Biomedical Applications Electronic Sensors Basic Mechanical Engineering Basics of Aeronautical Engineering Intellectual Property Rights Principles of Entrepreneurship Basic Mechanical Engineering Natural Gas Engineering Engineering Materials Surface Engineering Health & Safety in Mines Material Handling in Mines

Date: 30-10-2021

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EXAMINATION BRANCH

IV YEAR B.TECH – I SEMESTER– R18 REGULATION I - MID TERM EXAMINATIONS NOVEMBER-2021-(IN OFFLINE MODE)

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BRANCH	08-11-2021 FN MONDAY	08-11-2021 AN MONDAY	09-11-2021 FN TUESDAY	09-11-2021 AN TUESDAY	10-11-2021 FN WEDNESDAY
MECHANICAL ENGINEERING (03-ME)	Refrigeration & Air Conditioning	E2	E3	E4	OE2
		Additive Manufacturing	Power Plant Engineering	Computational Fluid Dynamics	Remote Sensing & GIS
					Data Structures
		Automation in Manufacturing	Automobile Engineering	Turbo Machinery	Artificial Intelligence
					Python Programming
		MEMS	Renewable Energy Sources	Fluid Power Systems	Java Programming
					Fundamentals of Biomedical Applications
					Electronic Sensors
					Utilization of Electrical Energy
					Electric Drives and Control
					Basics of Aeronautical Engineering
					Intellectual Property Rights
					Principles of Entrepreneurship
					Engineering Materials
					Surface Engineering
					Natural Gas Engineering
					Health & Safety in Mines
					Material Handling in Mines

Date: 30-10-2021

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EXAMINATION BRANCH

IV YEAR B.TECH – I SEMESTER– R18 REGULATION I - MID TERM EXAMINATIONS NOVEMBER-2021-(IN OFFLINE MODE)

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BRANCH	08-11-2021 FN MONDAY	08-11-2021 AN MONDAY	09-11-2021 FN TUESDAY	09-11-2021 AN TUESDAY	10-11-2021 FN WEDNESDAY
ELECTRONICS AND COMMUNICATION ENGINEERING (04-ECE)	Microwave and Optical Communications	Professional Practice law & Ethics	E3	E4	**OE2**
					Data Structures
			Artificial Neural Networks	Biomedical Instrumentation	Artificial Intelligence
					Remote Sensing & GIS
					Python Programming
			Scripting Languages	Database Management Systems	Java Programming
			Digital Image Processing		Fundamentals of Biomedical Applications
					Utilization of Electrical Energy
				Network Security and Cryptography	Electric Drives and Control
					Basic Mechanical Engineering
					Basics of Aeronautical Engineering
					Intellectual Property Rights
					Principles of Entrepreneurship
					Basic Mechanical Engineering
					Natural Gas Engineering
					Engineering Materials
					Surface Engineering
					Health & Safety in Mines
					Material Handling in Mines

Date: 30-10-2021

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EXAMINATION BRANCH

IV YEAR B.TECH – I SEMESTER– R18 REGULATION I - MID TERM EXAMINATIONS NOVEMBER-2021-(IN OFFLINE MODE)

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BRANCH	08-11-2021 FN MONDAY	08-11-2021 AN MONDAY	09-11-2021 FN TUESDAY	09-11-2021 AN TUESDAY	10-11-2021 FN WEDNESDAY
COMPUTER SCIENCE AND ENGINEERING (05-CSE)	Cryptography & Network Security	Data Mining	E4	E5	OE2
			Graph Theory	Advanced Algorithms	Remote Sensing & GIS
					Fundamentals of Biomedical Applications
					Electronic Sensors
					Utilization of Electrical Energy
			Introduction to Embedded Systems	Real Time Systems	Electric Drives and Control
					Basic Mechanical Engineering
					Basics of Aeronautical Engineering
				Soft Computing	Intellectual Property Rights
					Principles of Entrepreneurship
					Basic Mechanical Engineering
			Artificial Intelligence		Natural Gas Engineering
					Engineering Materials
			Cloud Computing	Internet of Things	Surface Engineering
					Health & Safety in Mines
					Material Handling in Mines
			Ad-hoc & Sensor Networks	Software Process & Project Management	

Date: 30-10-2021

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EXAMINATION BRANCH

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

TIME TABLE

TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBECTIVE EXAM:12.40 PM TO 1.00 PM)
AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	DATE, SESSIONAND DAY			
	06-05-2022 FN FRIDAY	06-05-2022 AN FRIDAY	07-05-2022 FN SATRUDAY	07-05-2022 AN SATRUDAY
CIVIL ENGINEERING (01-C E)	Mathematics-I	Programming for Problem Solving	Engineering Physics	---
ELECTRICAL AND ELECTRONICS ENGINEERING (02- EEE)	Mathematics-I	Chemistry	Basic Electrical Engineering	English
MECHANICAL ENGINEERING (03-ME)	Mathematics-I	Programming for Problem Solving	Engineering Physics	---
ELECTRONICS & COMMUNICATIONS ENGINEERING (04- ECE)	Mathematics-I	Programming for Problem Solving	Applied Physics	---

DATE:20-04-2022

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EXAMINATION BRANCH

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

TIME TABLE

TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBECTIVE EXAM:12.40 PM TO 1.00 PM)
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BRANCH	DATE, SESSIONAND DAY			
	06-05-2022 FN FRIDAY	06-05-2022 AN FRIDAY	07-05-2022 FN SATRUDAY	07-05-2022 AN SATRUDAY
COMPUTER SCIENCE & ENGINEERING (05- CSE)	Mathematics-I	Chemistry	Basic Electrical Engineering	English
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)	Mathematics-I	Programming for Problem Solving	Applied Physics	—
INFORMATION TECHNOLOGY (12- IT)	Mathematics-I	Chemistry	Basic Electrical Engineering	English

DATE:20-04-2022

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EXAMINATION BRANCH

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

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BRANCH	DATE, SESSIONAND DAY			
	06-05-2022 FN FRIDAY	06-05-2022 AN FRIDAY	07-05-2022 FN SATRUDAY	07-05-2022 AN SATRUDAY
COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) (66-CSE(AI&ML))	Mathematics-I	Programming for Problem Solving	Applied Physics	---
COMPUTER SCIENCE AND ENGINEERING (DATASCIENCE) (67-CSE(DS))	Mathematics-I	Chemistry	Basic Electrical Engineering	English
COMPUTER SCIENCE AND ENGINEERING (IOT) (69-CSE(IOT))	Mathematics-I	Programming for Problem Solving	Applied Physics	---
COMPUTER SCIENCE AND ENGINEERING (NETWORKS) (70-CSE(NETWORKS)	Mathematics-I	Chemistry	Basic Electrical Engineering	English
TEXTILE ENGINEERING (71-TTE)	Mathematics-I	Programming for Problem Solving	Engineering Physics	---

DATE:20-04-2022

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EXAMINATION BRANCH

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

TIMETABLE

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

BRANCH	DATE, SESSION AND DAY					
	14-02-2022 FN MONDAY	14-02-2022 AN MONDAY	15-02-2022 FN TUESDAY	15-02-2022 AN TUESDAY	16-02-2022 FN WEDNESDAY	16-02-2022 AN WEDNESDAY
CIVIL ENGINEERING (01-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	Mechanics of Solids	Material Science and Metallurgy	Production Technology	Thermodynamics	---

DATE: 03-02-2022

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EXAMINATION BRANCH

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

TIMETABLE

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

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

DATE: 03-02-2022

CONTINUED ON PAGE –3

PRINCIPAL
Avanthi Institute of Engg. & Tech
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD – 500 085

EXAMINATION BRANCH

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

TIMETABLE

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

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

DATE: 03-02-2022

Sd/-

CONTROLLER OF EXAMINATIONS

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

(I) EVEN IF GOVERNMENT DECLARES HOLIDAY ON ANY OF THE ABOVE DATES, THE EXAMINATIONS SHALL BE CONDUCTED AS USUAL

(II READMITTED STUDENTS HAVE TO APPEAR FOR THE SUBSTITUTE SUBJECT(S) [WHICH IS/ARE NOT SHOWN IN THE TIME-TABLE] IN PLACE OF THE SUBJECT(S) ALREADY SED. FOR DETAILS OF SUBSTITUTE SUBJECTS REFER THE COMMUNICATIONS RECEIVED FROM THE DIRECTOR OF ACADEMIC & PLANNING

(III) THE PATTERN OF THE DESCRIPTIVE AND OBJECTIVE TYPE PAPERS SHALL BE IN REGULAR PATTERN AS GIVEN IN R18 REGULATION

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EXAMINATION BRANCH

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

REVISED TI M E T A B L E

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

BRANCH	DATE, SESSION AND DAY					
	19-01-2022 FN WEDNESDAY	19-01-2022 AN WEDNESDAY	20-01-2022 FN THURSDAY	20-01-2022 AN THURSDAY	21-01-2022 FN FRIDAY	21-01-2022 AN FRIDAY
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 Machinery Common to (CE, MME)
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)	Computer Architecture High Voltage Engineering Electrical Machine Design	---
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: 06-01-2022

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EXAMINATION BRANCH

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

REVISED TI M E T A B L E

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

BRANCH	DATE, SESSION AND DAY					
	19-01-2022 FN WEDNESDAY	19-01-2022 AN WEDNESDAY	20-01-2022 FN THURSDAY	20-01-2022 AN THURSDAY	21-01-2022 FN FRIDAY	21-01-2022 AN FRIDAY
ELECTRONICS & COMMUNICATIONS ENGINEERING (04- ECE)	Microprocessor & Microcontrollers Common to (ECE, EIE)	Data Communications and Networks	Control Systems Common to (ECE, EIE)	Business Economics & Financial Analysis Common to (EEE ,ME, ECE, ,EIE,MCT, AE)	Error Correcting Codes	-----
					Electronic Measurements and Instrumentation	
					Computer Organization & Operating Systems	
COMPUTER SCIENCE & ENGINEERING (05- CSE)	Formal Languages & Automata Theory Common to (CSE, IT)	Software Engineering Common to (CSE, IT)	Computer Networks	Web Technologies	Information Theory & Coding	Computer Graphics Common to (CSE, IT)
					Advanced Computer Architecture Common to (CSE, IT)	Advanced Operating Systems Common to (CSE, IT)
					Data Analytics Common to (CSE, IT)	Informational Retrieval Systems
					Image Processing Common to (CSE, IT)	Distributed Databases
					Principles of Programming Languages Common to (CSE, IT)	Natural Language Processing
ELECTRONICS AND INSTRUMSNTTATIO N ENGINEERING (10-EIE)	Microprocessor & Microcontrollers Common to (ECE, EIE)	Process Dynamics and Control	Control Systems Common to (ECE, EIE)	Business Economics & Financial Analysis Common to (EEE ,ME, ECE, ,EIE,MCT, AE)	Instrumentation Practices in Industries	---
					Operating Systems	
					Robotics and Automation	

DATE: 06-01-2022

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EXAMINATION BRANCH

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

REVISED TIMETABLE

TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBECTIVE EXAM:12.40 PM TO 1.00 PM)
AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	19-01-2022 FN WEDNESDAY	19-01-2022 AN WEDNESDAY	20-01-2022 FN THURSDAY	20-01-2022 AN THURSDAY	21-01-2022 FN FRIDAY
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Fundamentals of Management for Engineers	---	E3	E4	OE2
			Digital Control systems	HVDC Transmission	Data Structures Artificial Intelligence Remote Sensing & GIS
			Digital Signal Processing	Power System Reliability	Python Programming Java Programming
			Electrical and Hybrid Vehicles	Industrial Electrical Systems	Fundamentals of Biomedical Applications Electronic Sensors Basic Mechanical Engineering Basics of Aeronautical Engineering Intellectual Property Rights Principles of Entrepreneurship Natural Gas Engineering Engineering Materials Surface Engineering Health & Safety in Mines Material Handling in Mines

Date: 06-01-2022

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EXAMINATION BRANCH

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

REVISED TIMETABLE

TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBECTIVE EXAM:12.40 PM TO 1.00 PM)
AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	19-01-2022 FN WEDNESDAY	19-01-2022 AN WEDNESDAY	20-01-2022 FN THURSDAY	20-01-2022 AN THURSDAY	21-01-2022 FN FRIDAY
MECHANICAL ENGINEERING (03-ME)	Refrigeration & Air Conditioning	E2	E3	E4	OE2
		Additive Manufacturing	Power Plant Engineering	Computational Fluid Dynamics	Remote Sensing & GIS
					Data Structures
		Automation in Manufacturing	Automobile Engineering		Artificial Intelligence
				Turbo Machinery	Python Programming
		MEMS	Renewable Energy Sources	Fluid Power Systems	Java Programming
					Fundamentals of Biomedical Applications
					Electronic Sensors
					Utilization of Electrical Energy
					Electric Drives and Control
					Basics of Aeronautical Engineering
					Intellectual Property Rights
					Principles of Entrepreneurship
					Engineering Materials
					Surface Engineering
					Natural Gas Engineering
					Health & Safety in Mines
					Material Handling in Mines

Date: 06-01-2022

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EXAMINATION BRANCH

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

REVISED TIMETABLE

TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBECTIVE EXAM:12.40 PM TO 1.00 PM)
AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	19-01-2022 FN WEDNESDAY	19-01-2022 AN WEDNESDAY	20-01-2022 FN THURSDAY	20-01-2022 AN THURSDAY	21-01-2022 FN FRIDAY
ELECTRONICS AND COMMUNICATION ENGINEERING (04-ECE)	Microwave and Optical Communications	Professional Practice law & Ethics	E3	E4	**OE2**
					Data Structures
			Artificial Neural Networks	Biomedical Instrumentation	Artificial Intelligence
					Remote Sensing & GIS
					Python Programming
			Scripting Languages	Database Management Systems	Java Programming
			Digital Image Processing		Fundamentals of Biomedical Applications
					Utilization of Electrical Energy
				Network Security and Cryptography	Electric Drives and Control
					Basic Mechanical Engineering
					Basics of Aeronautical Engineering
					Intellectual Property Rights
					Principles of Entrepreneurship
					Basic Mechanical Engineering
					Natural Gas Engineering
					Engineering Materials
					Surface Engineering
					Health & Safety in Mines
					Material Handling in Mines

Date: 06-01-2022

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EXAMINATION BRANCH

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

REVISED TIMETABLE

TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBECTIVE EXAM:12.40 PM TO 1.00 PM)
AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	19-01-2022 FN WEDNESDAY	19-01-2022 AN WEDNESDAY	20-01-2022 FN THURSDAY	20-01-2022 AN THURSDAY	21-01-2022 FN FRIDAY
COMPUTER SCIENCE AND ENGINEERING (05-CSE)	Cryptography & Network Security	Data Mining	E4	E5	OE2
			Graph Theory	Advanced Algorithms	Remote Sensing & GIS
					Fundamentals of Biomedical Applications
					Electronic Sensors
					Utilization of Electrical Energy
			Introduction to Embedded Systems	Real Time Systems	Electric Drives and Control
					Basic Mechanical Engineering
					Basics of Aeronautical Engineering
				Soft Computing	Intellectual Property Rights
					Principles of Entrepreneurship
			Artificial Intelligence		Natural Gas Engineering
					Engineering Materials
			Cloud Computing	Internet of Things	Surface Engineering
					Health & Safety in Mines
			Ad-hoc & Sensor Networks	Software Process & Project Management	Material Handling in Mines

Date: 06-01-2022

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EXAMINATION BRANCH

B.TECH I YEAR II SEMESTER – R18 REGULATIONS I - MID TERM EXAMINATIONS AUGUST-2022

TIMETABLE

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

BRANCH	DATE, SESSION AND DAY			
	16-08-2022 FN TUESDAY	16-08-2022AN TUESDAY	17-08-2022 FN WEDNESDAY	17-08-2022AN WEDNESDAY
CIVIL ENGINEERING (01-C E)	Mathematics-II	Chemistry	Engineering Mechanics	English
ELECTRICAL AND ELECTRONICS ENGINEERING (02- EEE)	Mathematics-II	Applied Physics	Programming for Problem Solving	-
MECHANICAL ENGINEERING (03-ME)	Mathematics-II	Chemistry	Engineering Mechanics	English

DATE 10-08-2022

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY - HYDERABAD – 500085 E X A M I N

A T I O N B R A N C H

B.TECH I YEAR II SEMESTER – R18 REGULATIONS I - MID TERM EXAMINATIONS AUGUST-2022

T I M E T A B L E

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

BRANCH	DATE, SESSION AND DAY			
	16-08-2022 FN TUESDAY	16-08-2022AN TUESDAY	17-08-2022 FN WEDNESDAY	17-08-2022AN WEDNESDAY
ELECTRONICS & COMMUNICATIONS ENGINEERING (04- ECE)	Mathematics-II	Chemistry	Basic Electrical Engineering	English
COMPUTER SCIENCE & ENGINEERING (05- CSE)	Mathematics-II	Applied Physics	Programming for Problem Solving	-----
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)	Mathematics-II	Chemistry	Basic Electrical Engineering	English

DATE: 10-08-2022

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KUKATPALLY - HYDERABAD – 500085 E X A M I N

A T I O N B R A N C H

B.TECH I YEAR II SEMESTER – R18 REGULATIONS I - MID TERM EXAMINATIONS AUGUST-2022

T I M E T A B L E

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

BRANCH	DATE, SESSIONAND			
	16-08-2022 FN TUESDAY	16-08-2022AN TUESDAY	17-08-2022 FN WEDNESDAY	17-08-2022AN WEDNESDAY
COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) (66-CSE(AI&ML)	Mathematics-II	Chemistry	Basic Electrical Engineering	English
COMPUTER SCIENCE AND ENGINEERING (DATASCIENCE) (67-CSE(DS)	Mathematics-II	Applied Physics	Programming for Problem Solving	
COMPUTER SCIENCE AND ENGINEERING (IOT) (69-CSE(IOT))	Mathematics-II	Chemistry	Basic Electrical Engineering	English
COMPUTER SCIENCE AND ENGINEERING (NETWORKS) (70-CSE(NETWORKS)	Mathematics-II	Applied Physics	Programming for Problem Solving	----
TEXTILE ENGINEERING (71-TTE)	Mathematics-II	Chemistry	Engineering Mechanics	English

DATE :10-08-2022

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CONTROLLER OF EXAMINATIONS

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EXAMINATION BRANCH

II YEAR B.TECH –I1 SEMESTER – R18 REGULATION - I MID TERM EXAMINATIONS MAY/JUNE-2022(IN OFFLINE MODE)

TIMETABLE

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

BRANCH	DATE, SESSION AND DAY					
	31-05-2022 FN TUESDAY	31-05-2022 AN TUESDAY	01-06-2022 FN WEDNESDAY	01-06-2022 AN WEDNESDAY	03-06-2022 FN FRIDAY	03-06-2022 AN FRIDAY
CIVIL ENGINEERING (01-C E)	Basic Electrical and Electronics Engineering	Basic Mechanical Engineering for Civil Engineers	Strength of Materials - II	Structural Analysis - I	Hydraulics and Hydraulic Machinery	Building Materials, Construction and Planning
ELECTRICAL AND ELECTRONICS ENGINEERING (02- EEE)	Laplace Transforms, Numerical Methods & Complex variables	Electrical Machines – II	Control Systems	Power System - I	Digital Electronics	---
MECHANICAL ENGINEERING (03- ME)	Basic Electrical and Electronics Engineering	Kinematics of Machinery	Thermal Engineering - I	Fluid Mechanics and Hydraulic Machines	Instrumentation and Control Systems	---

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DATE: 25-05-2022

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EXAMINATION BRANCH

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

TIMETABLE

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

BRANCH	DATE, SESSION AND DAY					
	31-05-2022 FN TUESDAY	31-05-2022 AN TUESDAY	01-06-2022 FN WEDNESDAY	01-06-2022 AN WEDNESDAY	03-06-2022 FN FRIDAY	03-06-2022 AN FRIDAY
ELECTRONICS & COMMUNICATIONS ENGINEERING (04- ECE)	Laplace Transforms, Numerical Methods & Complex Variables	Electromagnetic Fields and Waves	Analog and Digital Communications	Linear IC Applications	Electronic Circuit Analysis	-
COMPUTER SCIENCE & ENGINEERING (05- CSE)	Discrete Mathematics	Business Economics & Financial Analysis	Operating Systems	Database Management Systems	Java Programming	--------
ELECTRONICS AND INSTRUMSNTTATIO N ENGINEERING (10-EIE)	Laplace Transforms, Numerical Methods & Complex Variables	Industrial Instrumentation	Digital System Design	Linear IC Applications	Electronic Circuit Analysis	---------

DATE: 25-05-2022

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD – 500 085

EXAMINATION BRANCH

II YEAR B.TECH –I1 SEMESTER – R18 REGULATION - I MID TERM EXAMINATIONS MAY/JUNE-2022(IN OFFLINE MODE)

TIMETABLE

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

BRANCH	DATE, SESSION DAY					
	31-05-2022 FN TUESDAY	31-05-2022 AN TUESDAY	01-06-2022 FN WEDNESDAY	01-06-2022 AN WEDNESDAY	03-06-2022 FN FRIDAY	03-06-2022 AN FRIDAY
COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) (66-CSE(AI&ML)	Formal Language and Automata Theory	Software Engineering	Operating Systems	Database Management Systems	Object Oriented Programming using Java	--
COMPUTER SCIENCE AND ENGINEERING (DATASCIENCE) (67-CSE(DS)	Formal Language and Automata Theory	Software Engineering	Operating Systems	Database Management Systems	Object Oriented Programming using Java	-----
COMPUTER SCIENCE AND ENGINEERING (IOT) (69-CSE(IOT)	Computer Organization and Architecture	Business Economics & Financial Analysis	Operating Systems	Sensors and Devices	Object Oriented Programming using Java	-------
COMPUTER SCIENCE AND ENGINEERING (NETWORKS) (70-CSE(NETWORKS)	Discrete Mathematics	Business Economics & Financial Analysis	Operating Systems	Computer Networks	Object Oriented Programming using Java	----

DATE: 25-05-2022

PRINCIPAL

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CONTROLLER OF EXAMINATIONS

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

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY, HYDERABAD – 500085

EXAMINATION BRANCH

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

TIMETABLE

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

BRANCH	02-05-2022 FN MONDAY	02-05-2022 AN MONDAY	05-05-2022 FN THURSDAY	05-05-2022 AN THURSDAY	06-05-2022 FN FRIDAY	06-05-2022 AN FRIDAY
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Signals and Systems	Microprocessors & Microcontrollers	Power System Protection	E2 Optimization Techniques Wind and Solar Energy systems Power Semiconductor Drives	Power System Operation and Control	(OE1) Disaster Preparedness & Planning Management Entrepreneurship Fundamentals of Management for Engineers Cyber Law & Ethics Basics of Sensors Technology Fundamentals of Internet of Things Quantitative Analysis for Business Decisions Industrial Management Non-Conventional Energy Sources General Geology Testing of Materials Alloy Steels Introduction to Mining Technology Coal Gasification, CBM & Shale Gas

Date: 20-04-2022

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EXAMINATION BRANCH

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

TIMETABLE

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

BRANCH	02-05-2022 FN MONDAY	02-05-2022 AN MONDAY	05-05-2022 FN THURSDAY	05-05-2022 AN THURSDAY	06-05-2022 FN FRIDAY	06-05-2022 AN FRIDAY
MECHANICAL ENGINEERING (03-ME)	Design of Machine Members-II	CAD & CAM	Heat Transfer	Unconventional Machining Processes Machine Tool Design Production Planning & Control	Finite Element Methods	(OE1) Disaster Preparedness & Planning Management Entrepreneurship Fundamentals of Management for Engineers Cyber Law & Ethics Basics of Sensors Technology Fundamentals of Internet of Things Reliability Engineering Renewable Energy Sources Industrial Management Non-Conventional Energy Sources General Geology Testing of Materials Alloy Steels Introduction to Mining Technology Coal Gasification, CBM & Shale Gas

Date: 20-04-2022

PRINCIPAL
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EXAMINATION BRANCH

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

TIMETABLE

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

BRANCH	02-05-2022 FN MONDAY	02-05-2022 AN MONDAY	05-05-2022 FN THURSDAY	05-05-2022 AN THURSDAY	06-05-2022 FN FRIDAY	06-05-2022 AN FRIDAY
ELECTRONICS AND COMMUNICATION ENGINEERING (04-ECE)	Antennas and Propagation	Digital Signal Processing	E2	E2	VLSI Design	(OE1)
						Disaster Preparedness & Planning Management
						Entrepreneurship
			Object Oriented Programming through Java	Embedded System Design		Fundamentals of Management for Engineers
						Cyber Law & Ethics
						Basics of Sensors Technology
						Reliability Engineering
						Renewable Energy Sources
						Quantitative Analysis for Business Decisions
						Industrial Management
				Mobile Communications and Networks		Non-Conventional Energy Sources
						General Geology
						Testing of Materials
						Alloy Steels
						Introduction to Mining Technology
						Coal Gasification, CBM & Shale Gas

20-04-2022

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EXAMINATION BRANCH

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

TIMETABLE

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

BRANCH	02-05-2022 FN MONDAY	02-05-2022 AN MONDAY	05-05-2022 FN THURSDAY	05-05-2022 AN THURSDAY	06-05-2022 FN FRIDAY	06-05-2022 AN FRIDAY
COMPUTER SCIENCE AND ENGINEERING (05-CSE)	Machine Learning	Compiler Design	Design and Analysis of Algorithms	E3	–	(OE1)
						Disaster Preparedness & Planning Management
						Basics of Sensors Technology
				Concurrent Programming		Fundamentals of Internet of Things
						Reliability Engineering
						Renewable Energy Sources
				Network Programming		Quantitative Analysis for Business Decisions
						Industrial Management
						Non-Conventional Energy Sources
				Scripting Languages		General Geology
						Testing of Materials
						Alloy Steels
				Mobile Application Development		Introduction to Mining Technology
				Software Testing Methodologies		Coal Gasification, CBM & Shale Gas

Date: 20-04-2022

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EXAMINATION BRANCH

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

TIMETABLE

BRANCH	02-05-2022 FN MONDAY	02-05-2022 AN MONDAY	05-05-2022 FN THURSDAY
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	E5 Power Quality & FACTS	E6 Smart Grid Technologies	OE3
	Control Systems Design	Electrical Distribution Systems	Database Management Systems
			Elements of Rocket Propulsion
			Basics of Virtual Instrumentation
	AI Techniques in Electrical Engineering		Environmental Impact Assessment
			Fundamentals of Robotics
		Advanced Control of Electric Drives	Green Fuel Technologies
			High Temperature Materials
			Light Metals and Alloys
			Linear and Non-Linear Optimization Techniques
			Mobile Application Development
			Machine Learning
			Measuring Instruments
			Non-Conventional Sources of energy
			Remote Sensing and GIS in Mining
			Total Quality Management
			Solid Fuel Technology
			Scripting Languages

Date: 20-04-2022

PRINCIPAL
Avanthi Institute of Engg. & Tech
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TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBECTIVE EXAM:12.40 PM TO 1.00 PM)
AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	02-05-2022 FN MONDAY	02-05-2022 AN MONDAY	05-05-2022 FN THURSDAY
MECHANICAL	E5	E6	OE3

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EXAMINATION BRANCH

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

TIMETABLE

ENGINEERING	Industrial Robotics	Industrial Management	Basics of Power Plant Engineering
			Basics of Virtual Instrumentation
(03-ME)	Composite Materials		Environmental Impact Assessment
			Database Management Systems
	Mechanical Vibrations	Tribology	Elements of Rocket Propulsion
			Energy Sources and Applications
		Production and Operations Management	Fundamentals of Robotics
			Green Fuel Technologies
			High Temperature Materials
			Light Metals and Alloys
			Linear and Non-Linear Optimization Techniques
			Mobile Application Development
			Machine Learning
			Measuring Instruments
			Remote Sensing and GIS in Mining
			Total Quality Management
			Solid Fuel Technology
			Scripting Languages

Date: 20-04-2022

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TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBECTIVE EXAM:12.40 PM TO 1.00 PM)
AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	02-05-2022 FN MONDAY	02-05-2022 AN MONDAY	05-05-2022 FN THURSDAY
ELECTRONICS AND COMMUNICATION ENGINEERING	E5	E6	**OE3**
			Basics of Power Plant Engineering
			Database Management Systems
	Satellite Communications	System on Chip Architecture	Elements of Rocket Propulsion

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EXAMINATION BRANCH

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

TIMETABLE

(04-ECE)			Energy Sources and Applications
	Radar Systems	Test and Testability	Environmental Impact Assessment
			Fundamentals of Robotics
			Green Fuel Technologies
			High Temperature Materials
	Wireless Sensor Networks	Low Power VLSI Design	Light Metals and Alloys
			Linear and Non-Linear Optimization Techniques
			Mobile Application Development
			Machine Learning
			Non-Conventional Sources of energy
			Basics of Virtual Instrumentation
			Remote Sensing and GIS in Mining
			Total Quality Management
			Solid Fuel Technology
			Scripting Languages

Date: 20-04-2022

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TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBECTIVE EXAM:12.40 PM TO 1.00 PM)
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BRANCH	02-05-2022 FN MONDAY	02-05-2022 AN MONDAY	05-05-2022 FN THURSDAY
COMPUTER SCIENCE AND ENGINEERING (05-CSE)	Organizational Behaviour	E6	OE3
		Computational Complexity	Basics of Power Plant Engineering
		Distributed Systems	Elements of Rocket Propulsion
			Energy Sources and Applications

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EXAMINATION BRANCH

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

TIMETABLE

		Neural Networks & Deep Learning	Environmental Impact Assessment
			Fundamentals of Robotics
		Cyber Forensics	Green Fuel Technologies
			High Temperature Materials
		Human Computer Interaction	Light Metals and Alloys
			Measuring Instruments
			Non-Conventional Sources of energy
			Remote Sensing and GIS in Mining
			Total Quality Management
			Solid Fuel Technology
			Basics of Virtual Instrumentation
			Linear and Non-Linear Optimization Techniques

Date: 20-04-2022

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TIME→ FN: 11.40 AM TO 1.00 PM (DESCRIPTIVE EXAM: 11.40 AM TO 12.40 PM, OBECTIVE EXAM:12.40 PM TO 1.00 PM)
AN: 3.40 PM TO 5.00 PM (DESCRIPTIVE EXAM: 3.40 PM TO 04. 40 PM, OBECTIVE EXAM: 4.40 PM TO 05.00 PM)

BRANCH	02-05-2022 FN MONDAY	02-05-2022 AN MONDAY	05-05-2022 FN THURSDAY
	E5	E6	OE3
	Telemetry and Telecontrol	Power Plant Instrumentation	Environmental Impact Assessment
	Digital Image Processing	Machine Learning	Basics of Power Plant Engineering
	VLSI Design	Fundamentals of Internet of Things	Database Management Systems
			Elements of Rocket Propulsion
			Energy Sources and Applications
			Fundamentals of Robotics
ELECTRONICS AND INSTRUMENTATION ENGINEERING			Green Fuel Technologies
			High Temperature Materials
			Light Metals and Alloys

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EXAMINATION BRANCH

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

TIMETABLE

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

BRANCH	DATE, SESSION AND DAY			
	01-11-2022 FN TUESDAY	01-11-2022 AN TUESDAY	02-11-2022 FN WEDNESDAY	02-11-2022AN WEDNESDAY
CIVIL ENGINEERING (01-C E)	Mathematics-II	Chemistry	Engineering Mechanics	English
ELECTRICAL AND ELECTRONICS ENGINEERING (02- EEE)	Mathematics-II	Applied Physics	Programming for Problem Solving	----
MECHANICAL ENGINEERING (03-ME)	Mathematics-II	Chemistry	Engineering Mechanics	English

DATE 19-10-2022

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EXAMINATION BRANCH

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

TIMETABLE

TIME→ FN: 9.40 AM TO 11.00 AM (DESCRIPTIVE EXAM: 9.40 AM TO 10.40 AM, OBJECTIVE EXAM: 10.40 AM TO 11.00 AM)
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BRANCH	DATE, SESSION AND DAY			
	01-11-2022 FN TUESDAY	01-11-2022 AN TUESDAY	02-11-2022 FN WEDNESDAY	02-11-2022AN WEDNESDAY
ELECTRONICS & COMMUNICATIONS ENGINEERING (04- ECE)	Mathematics-II	Chemistry	Basic Electrical Engineering	English
COMPUTER SCIENCE & ENGINEERING (05- CSE)	Mathematics-II	Applied Physics	Programming for Problem Solving	-----
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10-EIE)	Mathematics-II	Chemistry	Basic Electrical Engineering	English

DATE: 19-10-2022

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EXAMINATION BRANCH

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

TIMETABLE

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

BRANCH	DATE, SESSION AND DAY			
	01-11-2022 FN TUESDAY	01-11-2022 AN TUESDAY	02-11-2022 FN WEDNESDAY	02-11-2022AN WEDNESDAY
COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) (66-CSE(AI&ML)	Mathematics-II	Chemistry	Basic Electrical Engineering	English
COMPUTER SCIENCE AND ENGINEERING (DATASCIENCE) (67-CSE(DS)	Mathematics-II	Applied Physics	Programming for Problem Solving	----
COMPUTER SCIENCE AND ENGINEERING (IOT) (69-CSE(IOT)	Mathematics-II	Chemistry	Basic Electrical Engineering	English
COMPUTER SCIENCE AND ENGINEERING (NETWORKS) (70-CSE(NETWORKS)	Mathematics-II	Applied Physics	Programming for Problem Solving	----
TEXTILE ENGINEERING (71-TTE)	Mathematics-II	Chemistry	Engineering Mechanics	English

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DATE : 19-10-2022

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EXAMINATION BRANCH

II YEAR B.TECH –I1 SEMESTER – R18 REGULATION - II MID TERM EXAMINATIONS AUGUST-2022 (IN OFFLINE MODE)

TIMETABLE

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

BRANCH	DATE, SESSION AND DAY					
	10-08-2022 FN WEDNESDAY	10-08-2022 AN WEDNESDAY	11-08-2022 FN THURSDAY	11-08-2022 AN THURSDAY	12-08-2022 FN FRIDAY	12-08-2022 AN FRIDAY
CIVIL ENGINEERING (01-C E)	Basic Electrical and Electronics Engineering	Basic Mechanical Engineering for Civil Engineers	Strength of Materials - II	Structural Analysis - I	Hydraulics and Hydraulic Machinery	Building Materials, Construction and Planning
ELECTRICAL AND ELECTRONICS ENGINEERING (02- EEE)	Laplace Transforms, Numerical Methods & Complex variables	Electrical Machines – II	Control Systems	Power System - I	Digital Electronics	---
MECHANICAL ENGINEERING (03- ME)	Basic Electrical and Electronics Engineering	Kinematics of Machinery	Thermal Engineering - I	Fluid Mechanics and Hydraulic Machines	Instrumentation and Control Systems	---

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DATE: 30-07-2022

CONTROLLER OF EXAMINATIONS

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EXAMINATION BRANCH

II YEAR B.TECH –I1 SEMESTER – R18 REGULATION - II MID TERM EXAMINATIONS AUGUST-2022 (IN OFFLINE MODE)

TIMETABLE

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

BRANCH	DATE, SESSION AND DAY					
	10-08-2022 FN WEDNESDAY	10-08-2022 AN WEDNESDAY	11-08-2022 FN THURSDAY	11-08-2022 AN THURSDAY	12-08-2022 FN FRIDAY	12-08-2022 AN FRIDAY
ELECTRONICS & COMMUNICATIONS ENGINEERING (04- ECE)	Laplace Transforms, Numerical Methods & Complex Variables	Electromagnetic Fields and Waves	Analog and Digital Communications	Linear IC Applications	Electronic Circuit Analysis	---
COMPUTER SCIENCE & ENGINEERING (05- CSE)	Discrete Mathematics	Business Economics & Financial Analysis	Operating Systems	Database Management Systems	Java Programming	----
ELECTRONICS AND INSTRUMSNTTATIO N ENGINEERING (10-EIE)	Laplace Transforms, Numerical Methods & Complex Variables	Industrial Instrumentation	Digital System Design	Linear IC Applications	Electronic Circuit Analysis	---

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DATE: 30-07-2022

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EXAMINATION BRANCH

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

TIMETABLE

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

BRANCH	DATE, SESSION DAY					
	10-08-2022 FN WEDNESDAY	10-08-2022 AN WEDNESDAY	11-08-2022 FN THURSDAY	11-08-2022 AN THURSDAY	12-08-2022 FN FRIDAY	12-08-2022 AN FRIDAY
COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) (66-CSE(AI&ML)	Formal Language and Automata Theory	Software Engineering	Operating Systems	Database Management Systems	Object Oriented Programming using Java	--
COMPUTER SCIENCE AND ENGINEERING (DATASCIENCE) (67-CSE(DS)	Formal Language and Automata Theory	Software Engineering	Operating Systems	Database Management Systems	Object Oriented Programming using Java	-----
COMPUTER SCIENCE AND ENGINEERING (IOT) (69-CSE(IOT)	Computer Organization and Architecture	Business Economics & Financial Analysis	Operating Systems	Sensors and Devices	Object Oriented Programming using Java	----
COMPUTER SCIENCE AND ENGINEERING (NETWORKS) (70-CSE(NETWORKS)	Discrete Mathematics	Business Economics & Financial Analysis	Operating Systems	Principles of Software Engineering	Object Oriented Programming using Java	----

DATE: 30-07-2022

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CONTROLLER OF EXAMINATIONS

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

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EXAMINATION BRANCH

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

TIMETABLE

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

BRANCH	11-07-2022 FN MONDAY	11-07-2022 AN MONDAY	12-07-2022 FN TUESDAY	12-07-2022 AN TUESDAY	16-07-2022 FN SATURDAY	16-07-2022 AN SATURDAY
ELECTRICAL AND ELECTRONICS ENGINEERING (02-EEE)	Signals and Systems	Microprocessors & Microcontrollers	Power System Protection	E2	Power System Operation and Control	(OE1)
				Optimization Techniques		Disaster Preparedness & Planning Management
						Entrepreneurship
						Fundamentals of Management for Engineers
						Cyber Law & Ethics
						Basics of Sensors Technology
						Fundamentals of Internet of Things
						Quantitative Analysis for Business Decisions
				Wind and Solar Energy systems		Industrial Management
						Non-Conventional Energy Sources
				Power Semiconductor Drives		General Geology
						Testing of Materials
						Alloy Steels
						Introduction to Mining Technology
						Coal Gasification, CBM & Shale Gas

Date: 01-07-2022

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EXAMINATION BRANCH

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

TIMETABLE

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

Date: 01-07-2022

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EXAMINATION BRANCH

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

TIMETABLE

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

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EXAMINATION BRANCH

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

TIMETABLE

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

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

Date: 01-07-2022

Sd/-

CONTROLLER OF EXAMINATIONS

PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

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Phone : Off: +91-40-23156113

ACCREDITED BY NAAC
A-GRADE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by JNTU Act No. 30 of 2008)
Kukatpally, Hyderabad – 500 085, Telangana (India)

Dr. M.Chandra Mohan
B.E.,M.Tech.,Ph.D.
Professor of Computer Science and Engineering &
DIRECTOR OF EVALUATION

Dt: 10-07-2022

CIRCULAR

The Principals of all the constituent and affiliated colleges of Jawaharlal Nehru Technological University Hyderabad offering B.Tech/B.Pharm courses are hereby informed to note that, in view of the declaration of holidays on 11-07-2022, 12-07-2022 and 13-07-2022 (Memo No. 8288/SE.Prog.II/2022, Dated:10-07-2022) to all the educational institutions by the Government of Telangana due to heavy rains, the **B.Tech/B.Pharm III Year II Semester II Midterm Examinations scheduled on 11-07-2022 and 12-07-2022 have been postponed** and the rescheduled dates will be intimated soon. However, the remaining II Midterm Examinations scheduled on 16-07-2022 will be conducted as per the schedule already given.

Sd/-

Director of Evaluation

Copy to

PA to Vice-Chancellor / Rector / Registrar, JNTUH

PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

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ACCREDITED BY NAAC WITH 'A' GRADE

Dr. M. Chandra Mohan
B.E.,M.Tech.,Ph.D.
Professor of Computer science and Engineering &
DIRECTOR OF EVALUATION

Letter No .EB/1102/2022, dated 18-07-2022.

To
The Principals,
Constituent and Affiliated colleges offering B.Tech. /B.Pharm Courses, JNTUH

Dear Sir/Madam,

Sub: JNTUH - Exam Branch – Rescheduling of B.Tech. /B.Pharm III year II sem II midterm exams and practical exams and end semester theory University Exams July-2022-Intimation-Reg

Ref: Note orders of the vice-chancellor, dt:12-07-2022

With respected ref. citied above, The Principals are informed to note that the B.Tech/B.Pharm III year II sem dates for practical examinations and II mid term exams are Rescheduled as mentioned in below table and B.Tech/B.Pharm III year II sem end semester theory University Exams will start from 03-08-2022 onwards.

S.No	Course Year and Semester	Original scheduled date of exams	Re-Scheduled date of exams
1.	B. Tech/ B. Pharm III year II sem second mid term exams	11-07-2022 FN/AN (Monday)	21-07-2022 FN/AN (Thursday)
2.	B. Tech/ B. Pharm III year II sem second mid term exams	12-07-2022 FN /AN (Tuesday)	22-07-2022 FN/ AN (Friday)
3.	B. Tech/ B. Pharm III year II sem second mid term exams	16-07-2022 FN /AN (Saturday)	23-07-2022 FN /AN (Saturday)
4.	B. Tech/ B. Pharm III year II sem practical exams	18-07-2022 to 23-07-2022	26-07-2022 (Tuesday) to 02-08-2022 (Tuesday)

The cooperation of the Principals is highly solicited.

Thanking you

Yours Sincerely

Sd/-
DIRECTOR OF EVALUATION

PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

Phone: Off: +91-40-23152216
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(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

Date: 17-01-2022

To
The Principals
of all the University colleges, Affiliated and Affiliated autonomous colleges
JNTU Hyderabad.

Dear Sir/Madam,

Sub: Exam Branch-JNTUH-Postponement of University end exams scheduled up to 30-01-2022-Request- Reg.

Ref: 1) G.O.Rt.No.4, Education (PROG.II) Department, dtd. 16-01-2022
2) Lr.No. TSCHE/Govt. orders on extension of Holidays/2022, dtd. 16-01-2022.
3) Note orders of the Hon'ble Vice-Chancellor, dtd. 17-01-2022.

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In the reference (1) cited, the Government of Telangana extended holidays to all Educational Institutions till 30-01-2022. In the reference (2) cited, the Telangana State Council of Higher Education has instructed to all the Telangana state Universities Vice-Chancellors for postponement of examinations scheduled between 17-01-2022 to 30-01-2022.

In view of the above said circumstances, it is decided to postpone all the University end examinations (Theory and Practical Regular/Supplementary exams) scheduled up to 30-01-2022 including mid-term exams and will be rescheduled.

Further, all the University colleges, affiliated and affiliated autonomous colleges of the JNTUH are instructed not to conduct any examinations during the holidays declared by the Government of Telangana without taking prior permission from the University. Otherwise, the examinations will not be considered by the University.

Thanking you,

Yours Sincerely,

17/01/22

REGISTRAR

Copy to PA to VC, Rector & Registrar, JNTUH.

PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Ref: AVIH/EEE/PROJECT/Cir/2021-22/01 **DATE: 06.09.2021**

PROJECT SCHEDULE

For the academic year 2021-22, all the IV B.Tech I Semester (2018 Admitted Batch) are hereby informed that the students should undergo the course PROJECT WORK as per the JNTUH R18 Regulations. The following is the detailed schedule.

S.NO.	Review & Assessment	Topic	Tentative Schedule
		Semester-I	
1	Project Initialization	a. Problem identification b. Domain and Technology c. Objective of Project d. Submission of Abstract e. Weekly plan of work	20.09.2021 to 25.09.2021
2	First Review Assessment	a. Literature Survey b. Identification of problem c. Disadvantage of Existing System	18.10.2021 to 23.10.2021
3	Second Review Assessment	a. Proposed Systems b. Advantages c. Design	15.11.2021 to 20.11.2021
4	Third Review Assessment	a. Methodology and Expected Results b. Implementation and Results	03.01.2022 to 08.01.2022
		Semester-II	
5	Fourth Review Assessment	a. Analysis b. Progress of work observation	11.04.2022 to 18.04.2022
6	Fifth Review Assessment	a. Testing and validation b. Project documentation status	02.05.2022 to 07.05.2022
7	Sixth and final Review Assessment	a. Conclusion and future study b. Submission of Project document	13.06.2022 to 18.06.2022

PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

Guidelines to students:

1. 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.

2. Each stage will be evaluated for 100 marks. Student has to submit project work report at the end of each semester.

3. 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.

4. SEE for both project stages shall be completed before the commencement of SEE Theory examinations.

5. For Project Stage – I, the departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall evaluate the project 10 work for 75 marks and project supervisor shall evaluate for 25 marks.

6. 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.

7. 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. 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.

9. 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.

10. 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.

11. 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.

Project Co-Ordinator

PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

HOD-EEE

Head of the Department
Electrical & Electronics Engineering
Avanthi Institute of Engineering & Technology
Gunthapally (Vill), Abdullapur Met (M.D.),
Ranga Reddy District.

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DEPARTMENT OF MECHANICAL ENGINEERING

Ref: AVIH/MECH/PROJECT/Cir/2021-22/01 **DATE: 06.09.2021**

PROJECT SCHEDULE

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PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

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Project Co-Ordinator HOD, MECH

PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

Head of the Department
Mechanical Engineering
Avanthi Institute of Engineering & Technology
Gunthapally (Vill), Abdullapur Met (Mdl),
Ranga Reddy District.

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DEPARTMENT OF ELECTRONOCIS AND COMMUNICATION ENGINEERING

Ref: AVIH/ECE/PROJECT/Cir/2021-22/01 **DATE: 06.09.2021**

PROJECT SCHEDULE

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PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

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Project Co-Ordinator PRINCIPAL **HOD-ECE**

Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.

Head of the Department
Electronics & Communication Engineering
Avanthi Institute of Engineering & Technology
Gunthapally (Vill), Abdullapur Met (Mdl),
Ranga Reddy District.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Ref: AVIH/CSE/PROJECT/Cir/2021-22/01 **DATE: 06.09.2021**

PROJECT SCHEDULE

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Project Co-Ordinator PRINCIPAL Avanthi Institute of Engg. & Tech Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist. **HOD-CSE** Head of the Department Computer Science & Engineering Avanthi Institute of Engineering & Technology Gunthapally (Vill), Abdullapur Met (Mdl), Ranga Reddy Dist.