

2.5.1

Documents related to internal/ external assessment Mechanism and the grievance redressal system

	Page No's	
University academic calender	2	35
University Regulation	36	80
Mechanism of Internal / External assessment		
University External exam assessment procedure	81	110
Institute Internal exam assessment procedure		
Revaluation and challenge evaluation procedure		

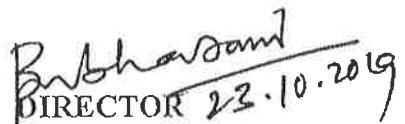
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
REVISED ACADEMIC CALENDAR (2019-20)
MBA/ MCA I YEAR - I & II SEMESTERS

MBA/ MCA I Year - I Semester

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	5 th Sept. 2019	--
2	Dussehra recess	7 th to 19 th Oct. 2019	2 weeks
3	First Mid Term Examinations	11 th to 14 th Nov. 2019	--
4	Submission of First Mid Term Exam Marks to University on or before	21 st Nov. 2019	--
5	Parent-Teacher Meeting	14 th Dec. 2019	--
6	Last date of Instruction	4 th Jan. 2020	--
7	Second Mid Term Examinations	6 th to 8 th Jan. 2020	16 weeks
8	Preparation Holidays and Practical Examinations	9 th to 16 th Jan. 2020	1 week
9	Submission of Second Mid Term Exam Marks to University on or before	16 th Jan. 2020	--
10	End Semester / Supplementary Examinations	17 th to 31 st Jan. 2020	2 weeks

MBA/ MCA I Year - II Semester

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	3 rd Feb. 2020	--
2	First Mid Term Examinations	26 th to 28 th March 2020	--
3	Submission of First Mid Term Exam Marks to University on or before	4 th April 2020	--
4	Parent-Teacher Meeting	11 th April 2020	--
5	Last date of Instruction	20 th May 2020	--
6	Second Mid Term Examinations	21 st to 23 rd May 2020	16 weeks
7	Practical Examinations	25 th to 27 th May 2020	--
8	Submission of Second Mid Term Exam Marks to University on or before	27 th May 2020	--
9	Summer Vacation	28 th May to 30 th June 2020	5 weeks
10	End Semester / Supplementary Examinations	1 st to 15 th July 2020	2 weeks


 DIRECTOR 23.10.2019
 ACADEMIC & PLANNING, JNTUH


 DRK Institute of Science & Technology


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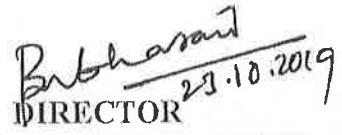
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
REVISED ACADEMIC CALENDAR (2019-20)
MBA II YEAR - I & II SEMESTERS

MBA II YEAR - I SEMESTER

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	8 th July 2019	--
2	First Mid Term Examinations	3 rd to 5 th Sept. 2019	--
3	Submission of First Mid Term Exam Marks to University on or before	13 th Sept. 2019	--
4	Parent-Teacher Meeting	14 th Sept. 2019	--
5	Dussehra recess	7 th to 19 th Oct. 2019	2 weeks
6	Last date of Instruction	20 th Nov. 2019	--
7	Second Mid Term Examinations	21 st to 23 rd Nov. 2019	16 weeks
8	Preparation Holidays and Practical Examinations	25 th to 30 th Nov. 2019	1 week
9	Submission of Second Mid Term Exam Marks to University on or before	30 th Nov. 2019	--
10	End Semester Examinations	2 nd to 14 th Dec. 2019	2 weeks

MBA II YEAR - II SEMESTER

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	16 th Dec. 2019	--
2	First Mid Term Examinations	10 th to 12 th Feb. 2020	--
3	Submission of First Mid Term Exam Marks to University on or before	19 th Feb. 2020	--
4	Parent-Teacher Meeting	14 th March 2020	--
5	Last date of Instruction	7 th April 2020	--
6	Second Mid Term Examinations	8 th to 11 th April 2020	16 weeks
7	Preparation Holidays and Practical Examinations	13 th to 18 th April 2020	1 week
8	Submission of Second Mid Term Exam Marks to University on or before	18 th April 2020	--
9	End Semester Examinations	20 th April to 2 nd May 2020	2 weeks


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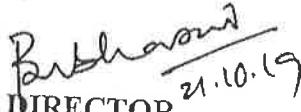
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
REVISED ACADEMIC CALENDAR (2019-20)
B. TECH. I YEAR I & II SEMESTERS

I SEM

S. No	EVENT	DATE	Duration
1	Induction programme	1 st to 14 th Aug. 2019	2 weeks
2	Commencement of Instruction	16 th Aug. 2019	--
3	Dussehra recess	7 th to 19 th Oct. 2019	2 weeks
4	First Mid Term Examinations	24 th to 26 th Oct. 2019	--
5	Submission of First Mid Term Exam Marks to University on or before	2 nd Nov. 2019	--
6	Parent-Teacher Meeting	9 th Nov. 2019	--
7	Last date of Instruction	17 th Dec. 2019	--
8	Second Mid Term Examinations	18 th to 20 th Dec. 2019	16 weeks
9	Preparation Holidays and Practical Examinations	21 st to 28 th Dec. 2019	1 week
10	Submission of Second Mid Term Exam Marks to University on or before	28 th Dec. 2019	--
11	End Semester / Supplementary Examinations	30 th Dec. 2019 to 11 th Jan 2020	2 weeks

II SEM

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	13 th Jan. 2020	--
2	First Mid Term Examinations	5 th to 7 th March 2020	--
3	Submission of First Mid Term Exam Marks to University on or before	14 th March 2020	--
4	Parent-Teacher Meeting	11 th April 2020	--
5	Last date of Instruction	1 st May 2020	--
6	Second Mid Term Examinations	2 nd to 5 th May 2020	16 weeks
7	Preparation Holidays and Practical Examinations	6 th to 13 th May 2020	1 week
8	Submission of Second Mid Term Exam Marks to University on or before	13 th May 2020	--
9	End Semester / Supplementary Examinations	14 th to 28 th May 2020	2 weeks
10	Summer Vacation	29 th May to 4 th July	5 weeks


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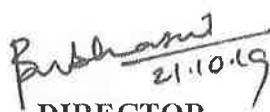
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
REVISED ACADEMIC CALENDAR (2019-20)
FOR NON-AUTONOMOUS CONSTITUENT & AFFILIATED COLLEGES
B. TECH./B.PHARM. II, III & IV YEARS I & II SEMESTERS

I SEM

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	15 th July 2019	--
2	First Mid Term Examinations	12 th to 14 th Sept. 2019	--
3	Submission of First Mid Term Exam Marks to University on or before	20 th Sept. 2019	--
4	Parent-Teacher Meeting	21 st Sept. 2019	--
5	Dussehra recess	7 th to 19 th Oct. 2019	2 weeks
6	Last date of Instruction	20 th Nov. 2019	17 weeks
7	Second Mid Term Examinations	21 st to 23 rd Nov. 2019	--
8	Preparation Holidays and Practical Examinations	25 th to 30 th Nov. 2019	1 week
9	Submission of Second Mid Term Exam Marks to University on or before	30 th Nov. 2019	--
10	End Semester Examinations	2 nd to 14 th Dec. 2019	2 weeks

II SEM

S. No	EVENT	DATE	Duration
1	Commencement of Instruction	16 th Dec. 2019	--
2	First Mid Term Examinations	10 th to 12 th Feb. 2020	--
3	Submission of First Mid Term Exam Marks to University on or before	19 th Feb. 2020	--
4	Parent-Teacher Meeting	14 th March 2020	--
5	Last date of Instruction	7 th April 2020	16 weeks
6	Second Mid Term Examinations	8 th to 11 th April 2020	--
7	Preparation Holidays and Practical Examinations	13 th to 18 th April 2020	1 week
8	Submission of Second Mid Term Exam Marks to University on or before	18 th April 2020	--
9	End Semester Examinations	20 th April to 2 nd May 2020	2 weeks
10	Summer Vacation	4 th May to 4 th July 2020	9 weeks


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
ACADEMIC CALENDAR 2020-21
For All Constituent & Affiliated Colleges of JNTUH
B. Tech./B.Pharm. I Year I & II Semesters
(Online Classes)

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

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

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

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

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


REGISTRAR
Dr. K. R. Venkateswaran
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
ACADEMIC CALENDAR 2020-21
For All Constituent & Affiliated Colleges of JNTUH
B. Tech./B.Pharm. II, III & IV Years I & II Semesters

I SEM

S. No	Description	Duration	
		From	To
1.	Commencement of 1 st Semester classwork		24.08.2020
2.	1 st Spell of Instructions	24.08.2020	17.10.2020 (8 Weeks)
3.	Dussehra Recess	19.10.2020	24.10.2020 (1 Week)
4.	First Mid Term Examinations	26.10.2020	31.10.2020 (1 Week)
5.	Submission of First Mid Term Exam Marks to the University on or before		07.11.2020
6.	Parent-Teacher Meeting		13.11.2020
7.	2 nd Spell of Instructions	02.11.2020	26.12.2020 (8 Weeks)
8.	Second Mid Term Examinations	28.12.2020	02.01.2021 (1 Week)
9.	Preparation Holidays and Practical Examinations	04.01.2021	09.01.2021 (1 Week)
10.	Submission of Second Mid Term Exam Marks to the University on or before		09.01.2021
11.	End Semester Examinations	11.01.2021	23.01.2021 (2 Weeks)

II SEM

S. No	Description	Duration	
		From	To
1.	Commencement of 2 nd Semester classwork		25.01.2021
2.	1 st Spell of Instructions	25.01.2021	20.03.2021 (8 Weeks)
3.	First Mid Term Examinations	22.03.2021	27.03.2021 (1 Week)
4.	Submission of First Mid Term Exam Marks to the University on or before		06.04.2021
5.	Parent-Teacher Meeting		09.04.2021
6.	2 nd Spell of Instructions	29.03.2021	22.05.2021 (8 Weeks)
7.	Second Mid Term Examinations	24.05.2021	29.05.2021 (1 Week)
8.	Preparation Holidays and Practical Examinations	31.05.2021	05.06.2021 (1 Week)
9.	Submission of Second Mid Term Exam Marks to the University on or before		05.06.2021
10.	End Semester Examinations	07.06.2021	19.06.2021 (2 Weeks)
11.	Summer Vacation	21.06.2021	10.07.2021 (3 Weeks)

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

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26/3/2020

Principals
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
Tentative Academic Calendar (2020-21)
For All Constituent & Affiliated Colleges of JNTUH
MBA / MCA I Year - I & II Semesters

MBA / MCA I Year - I Semester

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork / Induction Programme	28.12.2020	
2	1 st Spell of Instructions	28.12.2020	20.02.2021 (8 Weeks)
3	First Mid Term Examinations	22.02.2021	27.02.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	06.03.2021	
5	2 nd Spell of Instructions	01.03.2021	24.04.2021 (8 Weeks)
6	Second Mid Term Examinations	26.04.2021	01.05.2021 (1 Week)
7	Practical classes	03.05.2021	08.05.2021 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	08.05.2021	
9	Preparation Holidays and Practical Examinations	10.05.2021	15.05.2021 (1 Week)
10	End Semester Examinations	17.05.2021	29.05.2021 (2 Weeks)

MBA / MCA I Year - II Semester

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	31.05.2021	
2	1 st Spell of Instructions	31.05.2021	24.07.2021 (8 Weeks)
3	First Mid Term Examinations	26.07.2021	31.07.2021 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	07.08.2021	
5	2 nd Spell of Instructions	02.08.2021	25.09.2021 (8 Weeks)
6	Second Mid Term Examinations	27.09.2021	01.10.2021 (1 Week)
7	Submission of Second Mid Term Exam Marks to the University on or before	09.10.2021	
8	Preparation Holidays and Practical Examinations	04.10.2021	09.10.2021 (1 Week)
9	End Semester Examinations	11.10.2021	27.10.2021 (2 Weeks)

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

Sd/----
Director, Academic & Planning


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 Hyderabad - 500 043.

J.N.T.U.H. COLLEGE OF ENGINEERING, HYDERABAD
(Autonomous)

Revised Tentative Academic Calendar (2020-21)

**B.Tech. I Year - I & II Semester
(Regular, IDP, IDDMP & IIDDMP)**

I Semester

S. No	EVENT	DATE	Duration
1	Induction Programme	02 nd December to 05 th December 2020	1 week
2	Commencement of First Spell of Instruction	07 th December-2020	--
3	End of First Spell of Instruction	30 th January 2021	8 weeks
4	First Mid Term Examinations	01 st February to 06 th February -2021	1 week
5	Continuation of Second Spell of Instruction	08 th February	
6	End of Second Spell of Instruction	03 rd April 2021	8 weeks

II Semester

S. No	EVENT	DATE	Duration
1.	Commencement of First Spell of Instruction	19 th April 2021 to 22nd May 2021	5 weeks
2.	Summer Holidays	24 th May to 29 th May 2021	1 week
3.	Continuation of First Spell of Instruction	31 st May 2021	
4.	End of First Spell of Instruction	19 th June 2021	3 weeks
5.	First Mid Term Examinations	21 st June to 26 th June 2021	1 week
6.	Commencement of Second Spell of Instruction	28 th June 2021	
7.	End of Second Spell of Instruction	21 st August 2021	8 weeks

Sd/-

PRINCIPAL

Date: 08-04-2021


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Hyderabad - 500 042

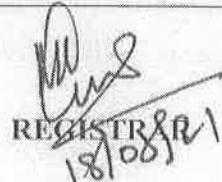
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Revised Academic Calendar 2020-21

For All Constituent & Affiliated Colleges of JNTUH

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

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



REGISTRAR
18/08/2021

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JNT UNIVERSITY HYDERABAD
KUKATPALLY,
HYDERABAD-500 085

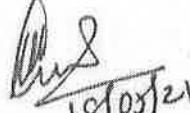
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Revised Academic Calendar 2020-21

For All Constituent & Affiliated Colleges of JNTUH

MBA/MCA II Year II Semester

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	22.02.2021	
2	1 st Spell of Instructions	22.02.2021	17.04.2021 (8 Weeks)
3	I-Mid Term Examinations	19.04.2021	24.04.2021 (1 Week)
4	Submission of I-Mid Term Exam Marks to the University on or before	01.05.2021	
5	2 nd Spell of Instructions	26.04.2021	19.06.2021 (8 Weeks)
6	II- Mid Term Examinations	21.06.2021	26.06.2021 (1 Week)
7	Preparation Holidays/ Laboratory Class work, and Practical Examinations	28.06.2021	17.07.2021 (3 Weeks)
8	Submission of II-Mid Term Exam Marks to the University on or before	07.07.2021	
9	End Semester Examinations	19.07.2021	31.07.2021 (2 Weeks)



18/03/21
REGISTRAR

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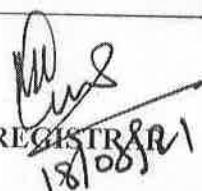
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Revised Academic Calendar 2020-21

For All Constituent & Affiliated Colleges of JNTUH

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

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


REGISTRAR
18/08/2021

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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	1 st Spell of Instructions	09.12.2021	05.02.2022 (9 Weeks)
3	First Mid Term Examinations	07.02.2022	12.02.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		19.02.2022
5	2 nd Spell of Instructions	14.02.2022	09.04.2022 (8 Weeks)
6	Second Mid Term Examinations	11.04.2022	19.04.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	20.04.2022	26.04.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		26.04.2022
9	End Semester Examinations	27.04.2022	12.05.2022 (2 Weeks)

II SEM

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

Amv
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Bowrampet, Quthbullapur,
Hyderabad - 500 043.
REGISTRAR
Dated 12/12/21

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2021-22

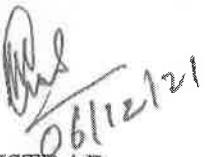
B. TECH./B.PHARM. I YEAR I & II SEMESTERS

I SEM

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

II SEM

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



26/12/21
REGISTRAR

Laviv
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DRK Institute of Science & Technology
Bowrampet, Qutubullapur,
Hyderabad - 500 043.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

REVISED ACADEMIC CALENDAR 2021-22

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

I SEM

S. No	Description	Duration	
		From	To
1	Induction programme	09.12.2021 to 18.12.2021	
2	1 st Spell of Instructions	20.12.2021	12.02.2022 (7 Weeks)
	Holidays	08.01.2022	16.01.2022
3	First Mid Term Examinations	14.02.2022	19.02.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	26.02.2022	
5	2 nd Spell of Instructions	21.02.2022	30.04.2022 (10 Weeks)
6	Second Mid Term Examinations	02.05.2022	07.05.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	09.05.2022	14.05.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	14.05.2022	
9	End Semester Examinations	16.05.2022	28.05.2022 (2 Weeks)

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	30.05.2022	
2	1 st Spell of Instructions	30.05.2022	23.07.2022 (8 Weeks)
3	First Mid Term Examinations	26.07.2022	30.07.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	06.08.2022	
5	2 nd Spell of Instructions	01.08.2022	24.09.2022 (8 Weeks)
6	Second Mid Term Examinations	26.09.2022	01.10.2022 (1 Week)
7	Preparation Holidays and Practical Examinations	03.10.2022	08.10.2022 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	08.10.2022	
9	End Semester Examinations	10.10.2022	22.10.2022 (2 Weeks)



22/10/22
REGISTRAR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2021-22

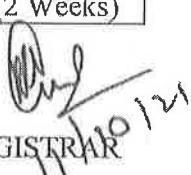
B. TECH./B.PHARM. II YEAR I & II SEMESTERS

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	1 st Spell of Instructions	18.10.2021	11.12.2021 (8 Weeks)
4	First Mid Term Examinations	13.12.2021	18.12.2021 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		24.12.2021
6	2 nd Spell of Instructions	20.12.2021	12.02.2022 (8 Weeks)
7	Second Mid Term Examinations	14.02.2022	19.02.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	21.02.2022	26.02.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		26.02.2022
10	End Semester Examinations	28.02.2022	12.03.2022 (2 Weeks)

II SEM

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



REGISTRAR
10/12/21

Lavini
PRINCIPAL
 DRK Institute of Science & Technology
 Govt. Approved
 Bojjumet, Gouthamguda,
 Hyderabad - 500 069.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

REVISED 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		06.09.2021
2	1 st Spell of Instructions (including Dussehra Recess)	06.09.2021	06.11.2021 (9 Weeks)
3	Dussehra Recess	11.10.2021	16.10.2021 (1 Week)
4	First Mid Term Examinations	08.11.2021	13.11.2021 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		20.11.2021
6	2 nd Spell of Instructions	15.11.2021	08.01.2022 (8 Weeks)
7	Second Mid Term Examinations		02.02.2022 to 28.02.2022
8	Practical Examinations	02.02.2022	As per the convenience of the Colleges
9	Submission of Second Mid Term Exam Marks to the University on or before		02.03.2022
10	End Semester Examinations	09.02.2022	02.03.2022

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		03.03.2022
2	1 st Spell of Instructions	03.03.2022	30.04.2022 (8 Weeks)
3	First Mid Term Examinations	02.05.2022	07.05.2022 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		14.05.2022
5	Summer Vacation	09.05.2022	14.05.2022 (1 Week)
6	2 nd Spell of Instructions (including Summer Vacation)	16.05.2022	09.07.2022 (8 Weeks)
7	Second Mid Term Examinations	11.07.2022	16.07.2022 (1 Week)
8	Preparation Holidays and Practical Examinations	18.07.2022	23.07.2022 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		23.07.2022
10	End Semester Examinations	26.07.2022	06.08.2022 (2 Weeks)



REGISTRAR

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	1 st 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	2 nd 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	1 st 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	2 nd 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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 DRK Institute of Science & Technology
 Bowampet, Qutubullapur,
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ACADEMIC CALENDAR 2022-23

B.Tech. I YEAR I & II SEMESTERS

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork (including Induction programme)	03.11.2022	
2	1 st Spell of Instructions	03.11.2022	28.12.2022 (8 Weeks)
3	First Mid Term Examinations	29.12.2022	04.01.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	10.01.2023	
5	2 nd Spell of Instructions	05.01.2023	02.03.2023 (8 Weeks)
6	Second Mid Term Examinations	03.03.2023	09.03.2023 (1 Week)
7	Preparation Holidays and Practical Examinations	10.03.2023	16.03.2023 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	16.03.2023	
9	End Semester Examinations	17.03.2023	01.04.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 91

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	03.04.2023	
2	1 st Spell of Instructions (including Summer Vacation)	03.04.2023	10.06.2023 (10 Weeks)
	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
3	First Mid Term Examinations	12.06.2023	17.06.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	23.06.2023	
5	2 nd Spell of Instructions	19.06.2023	12.08.2023 (8 Weeks)
6	Second Mid Term Examinations	14.08.2023	19.08.2023 (1 Week)
7	Preparation Holidays and Practical Examinations	21.08.2023	26.08.2023 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before	26.08.2023	
9	End Semester Examinations	28.08.2023	09.09.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 90



22/01/22

REGISTRAR

ACADEMIC CALENDAR 2022-23

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

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		28.11.2022
2	1 st Spell of Instructions	28.11.2022	21.01.2023 (8 Weeks)
3	First Mid Term Examinations	23.01.2023	30.01.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		04.02.2023
5	2 nd Spell of Instructions	31.01.2023	29.03.2023 (8 Weeks)
6	Second Mid Term Examinations	31.03.2023	08.04.2023 (1 Week)
7	Preparation Holidays and Practical Examinations	10.04.2023	15.04.2023 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		15.04.2023
9	End Semester Examinations	17.04.2023	29.04.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 93

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		01.05.2023
2	1 st Spell of Instructions (including Summer Vacation)	01.05.2023	08.07.2023 (10 Weeks)
3	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
4	First Mid Term Examinations	10.07.2023	15.07.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		22.07.2023
6	2 nd Spell of Instructions	18.07.2023	11.09.2023 (8 Weeks)
7	Second Mid Term Examinations	12.09.2023	16.09.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	19.09.2023	23.09.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		23.09.2023
10	End Semester Examinations	25.09.2023	07.10.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 92


 REGISTRAR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

B. Tech./B. Pharm. IV YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		29.08.2022
2	1 st Spell of Instructions (including Dussehra Recess)	29.08.2022	31.10.2022 (9 Weeks)
3	Dussehra Recess	03.10.2022	08.10.2022 (1 Week)
4	First Mid Term Examinations	01.11.2022	07.11.2022 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		12.11.2022
6	2 nd Spell of Instructions	09.11.2022	03.01.2023 (8 Weeks)
7	Second Mid Term Examinations	04.01.2023	10.01.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	11.01.2023	19.01.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		17.01.2023
10	End Semester Examinations	20.01.2023	02.02.2023(2 Weeks)

Note: No. of Working/instructional days: 94

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		03.02.2023
2	1 st Spell of Instructions	03.02.2023	31.03.2023 (8 Weeks)
3	First Mid Term Examinations	01.04.2023	08.04.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		15.04.2023
5	2 nd Spell of Instructions	10.04.2023	17.06.2023 (10 Weeks)
6	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
7	Second Mid Term Examinations	19.06.2023	24.06.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	26.06.2023	01.07.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		01.07.2023
10	End Semester Examinations	03.07.2023	15.07.2023 (2 Weeks)

Note: No. of Working/ instructional days: 91



REGISTRAR

DRK
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 Bowrampet, Guntur - 522 001
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Revised ACADEMIC CALENDAR 2023-24

B. Tech./B. Pharm. IV YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		31.07.2023
2	1 st Spell of Instructions	31.07.2023	30.09.2023 (8 Weeks)
4	First Mid Term Examinations	03.10.2023	07.10.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		13.10.2023
6	2 nd Spell of Instructions (including Dussehra Recess)	09.10.2023	08.12.2023 (9 Weeks)
7	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
8	Second Mid Term Examinations	11.12.2023	16.12.2023 (1 Week)
9	Preparation Holidays and Practical Examinations	18.12.2023	23.12.2023 (1 Week)
10	Submission of Second Mid Term Exam Marks to the University on or before		28.12.2023
11	End Semester Examinations	27.12.2023	10.01.2024 (2 Weeks)

Note: No. of Working/instructional days: 92

II SEM

S.	Description	Duration	
		From	To
1	Commencement of II Semester classwork		12.01.2024
2	1 st Spell of Instructions	12.01.2024	07.03.2024 (8 Weeks)
3	First Mid Term Examinations	11.03.2024	16.03.2024 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		22.03.2024
5	2 nd Spell of Instructions	18.03.2024	18.05.2024 (9 Weeks)
6	Second Mid Term Examinations	20.05.2024	25.05.2024 (1 Week)
7	Preparation Holidays and Practical Examinations	27.05.2024	01.06.2024(1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		01.06.2024
9	End Semester Examinations	03.06.2024	15.06.2024 (2 Weeks)

Note: No. of Working/ instructional days: 90

*Parvathy
26/7/23*
REGISTRAR

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Hyderabad - 500 043.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

B. Tech./B. Pharm. III YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		09.09.2022
2	1 st Spell of Instructions (including Dussehra Recess)	09.09.2022	10.11.2022 (9 Weeks)
3	Dussehra Recess	03.10.2022	08.10.2022 (1 Week)
4	First Mid Term Examinations	11.11.2022	17.11.2022 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		24.11.2022
6	2 nd Spell of Instructions	18.11.2022	12.01.2023 (8 Weeks)
7	Second Mid Term Examinations	16.01.2023	21.01.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	23.01.2023	28.01.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		30.01.2023
10	End Semester Examinations	30.01.2023	11.02.2023 (2 Weeks)

Note: No. of Working/ instructional days: 92

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		13.02.2023
2	1 st Spell of Instructions	13.02.2023	08.04.2023 (8 Weeks)
3	First Mid Term Examinations	10.04.2023	15.04.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		22.04.2023
5	2 nd Spell of Instructions (including Summer Vacation)	17.04.2023	24.06.2023 (10 Weeks)
6	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
7	Second Mid Term Examinations	26.06.2023	01.07.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	03.07.2023	08.07.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		08.07.2023
10	End Semester Examinations	10.07.2023	22.07.2023 (2 Weeks)

Note: No. of Working/ instructional days: 90



REGISTRAR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2023-24
MBA/MCA I YEAR I & II SEMESTERS

I SEM

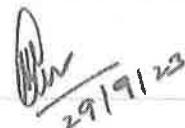
S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork (including Induction programme)		03.10.2023
2	1 st Spell of Instructions (including Dussehra Recess)	03.10.2023	02.12.2023 (9 Weeks)
	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
3	First Mid Term Examinations	04.12.2023	08.12.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		14.12.2023
5	2 nd Spell of Instructions	11.12.2023	09.02.2024 (9 Weeks)
6	Second Mid Term Examinations	12.02.2024	17.02.2024 (1 Week)
7	Preparation Holidays and Practical Examinations	19.02.2024	24.02.2024 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		21.02.2024
9	End Semester Examinations	26.02.2024	12.03.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 91

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		14.03.2024
2	1 st Spell of Instructions	14.03.2024	10.05.2024 (8 Weeks)
	Summer Vacation	13.05.2024	25.05.2024 (2 Weeks)
3	First Mid Term Examinations	27.05.2024	01.06.2024 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		06.06.2024
5	2 nd Spell of Instructions	03.06.2024	03.08.2024 (9 Weeks)
6	Second Mid Term Examinations	05.08.2024	09.08.2024 (1 Week)
7	Preparation Holidays and Practical Examinations	12.08.2024	17.08.2024 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		13.08.2024
9	End Semester Examinations	19.08.2024	31.08.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 92



REGISTRAR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

MBA/MCA II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		10.11.2022
2	1 st Spell of Instructions	10.11.2022	04.01.2023 (8 Weeks)
3	First Mid Term Examinations	05.01.2023	11.01.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		19.01.2023
5	2 nd Spell of Instructions	12.01.2023	11.03.2023 (8 Weeks)
6	Second Mid Term Examinations	13.03.2023	18.03.2023 (1 Week)
7	Preparation Holidays and Practical Examinations	20.03.2023	25.03.2023 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		25.03.2023
9	End Semester Examinations	27.03.2023	12.04.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 93

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		13.04.2023
2	1 st Spell of Instructions (including Summer Vacation)	13.04.2023	21.06.2023 (10 Weeks)
3	Summer Vacation	15.05.2023	27.05.2023 (2 Weeks)
4	First Mid Term Examinations	22.06.2023	28.06.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		04.07.2023
6	2 nd Spell of Instructions	30.06.2023	24.08.2023 (8 Weeks)
7	Second Mid Term Examinations	25.08.2023	31.08.2023 (1 Week)
8	Preparation Holidays and Practical Examinations	01.09.2023	08.09.2023 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		08.09.2023
10	End Semester Examinations	09.09.2023	23.09.2023 (2 Weeks)

Note: No. of Working / Instructional Days: 92



 22/10/22
 REGISTRAR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2023-24

B.Tech. I YEAR I & II SEMESTERS

S. No	Description	Duration	
		From	To
1	Induction programme	28.08.2023	02.09.2023
3	1 st Spell of Instructions (including Dussehra Recess)	04.09.2023	04.11.2023 (9 Weeks)
4	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
5	First Mid Term Examinations	06.11.2023	10.11.2023 (1 Week)
6	Submission of First Mid Term Exam Marks to the University on or before		17.11.2023
7	2 nd Spell of Instructions	13.11.2023	12.01.2024 (9 Weeks)
8	Second Mid Term Examinations	16.01.2024	22.01.2024 (1 Week)
9	Preparation Holidays and Practical Examinations	23.01.2024	27.01.2024 (1 Week)
10	Submission of Second Mid Term Exam Marks to the University on or before		24.01.2024
11	End Semester Examinations	29.01.2024	09.02.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 90

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		12.02.2024
2	1 st Spell of Instructions	12.02.2024	06.04.2024 (8 Weeks)
3	First Mid Term Examinations	08.04.2024	16.04.2024 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		20.04.2024
5	2 nd Spell of Instructions (including Summer Vacation)	18.04.2024	29.06.2024 (10 Weeks)
6	Summer Vacation	13.05.2024	25.05.2024 (2 Weeks)
7	Second Mid Term Examinations	01.07.2024	06.07.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	08.07.2024	12.07.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		10.07.2024
10	End Semester Examinations	15.07.2024	27.07.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 91



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2023-24

B. Tech II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		19.09.2023
2	1 st Spell of Instructions (including Dussehra Recess)	19.09.2023	25.11.2023 (10 Weeks)
	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
3	First Mid Term Examinations	28.11.2023	02.12.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		08.12.2023
5	2 nd Spell of Instructions	04.12.2023	27.01.2024 (8 Weeks)
6	Second Mid Term Examinations	29.01.2024	03.02.2024 (1 Week)
7	Preparation Holidays and Practical Examinations	05.02.2024	09.02.2024 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		07.02.2024
9	End Semester Examinations	12.02.2024	24.02.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 90

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		26.02.2024
2	1 st Spell of Instructions	26.02.2024	29.04.2024 (9 Weeks)
3	First Mid Term Examinations	30.04.2024	04.05.2024 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		10.05.2024
5	2 nd Spell of Instructions (including Summer Vacation)	06.05.2024	12.07.2024 (10 Weeks)
6	Summer Vacation	13.05.2024	25.05.2024(2 Weeks)
7	Second Mid Term Examinations	15.07.2024	20.07.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	22.07.2024	27.07.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		24.07.2024
10	End Semester Examinations	29.07.2024	09.08.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 90



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2023-24

B. Tech./B. Pharm. III YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		11.10.2023
2	1 st Spell of Instructions (including Dussehra Recess)	11.10.2023	12.12.2023 (9 Weeks)
3	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
4	First Mid Term Examinations	13.12.2023	19.12.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		23.12.2023
6	2 nd Spell of Instructions	20.12.2023	19.02.2024 (8 Weeks)
7	Second Mid Term Examinations	20.02.2024	24.02.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	26.02.2024	02.03.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		28.02.2024
10	End Semester Examinations	04.03.2024	16.03.2024 (2 Weeks)

Note: No. of Working/ instructional days: 90

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		18.03.2024
2	1 st Spell of Instructions	18.03.2024	10.05.2024 (8 Weeks)
3	Summer Vacation	13.05.2024	25.05.2024 (2 Weeks)
4	First Mid Term Examinations	27.05.2024	01.06.2024 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		06.06.2024
6	2 nd Spell of Instructions (including Summer Vacation)	03.06.2024	03.08.2024 (9 Weeks)
7	Second Mid Term Examinations	05.08.2024	09.08.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	12.08.2024	17.08.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		14.08.2024
10	End Semester Examinations	19.08.2024	31.08.2024 (2 Weeks)

Note: No. of Working/ instructional days: 90



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Revised ACADEMIC CALENDAR 2023-24

B. Tech./B. Pharm. IV YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		31.07.2023
2	1 st Spell of Instructions	31.07.2023	30.09.2023 (8 Weeks)
4	First Mid Term Examinations	03.10.2023	07.10.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		13.10.2023
6	2 nd Spell of Instructions (including Dussehra Recess)	09.10.2023	08.12.2023 (9 Weeks)
7	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
8	Second Mid Term Examinations	11.12.2023	16.12.2023 (1 Week)
9	Preparation Holidays and Practical Examinations	18.12.2023	23.12.2023 (1 Week)
10	Submission of Second Mid Term Exam Marks to the University on or before		28.12.2023
11	End Semester Examinations	27.12.2023	10.01.2024 (2 Weeks)

Note: No. of Working/instructional days: 92

II SEM

S.	Description	Duration	
		From	To
1	Commencement of II Semester classwork		12.01.2024
2	1 st Spell of Instructions	12.01.2024	07.03.2024 (8 Weeks)
3	First Mid Term Examinations	11.03.2024	16.03.2024 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		22.03.2024
5	2 nd Spell of Instructions	18.03.2024	18.05.2024 (9 Weeks)
6	Second Mid Term Examinations	20.05.2024	25.05.2024 (1 Week)
7	Preparation Holidays and Practical Examinations	27.05.2024	01.06.2024(1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		01.06.2024
9	End Semester Examinations	03.06.2024	15.06.2024 (2 Weeks)

Note: No. of Working/ instructional days: 90

*Parvathi
26/7/23*
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2023-24
MBA/MCA I YEAR I & II SEMESTERS

I SEM

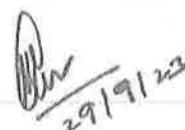
S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork (including Induction programme)		03.10.2023
2	1 st Spell of Instructions (including Dussehra Recess)	03.10.2023	02.12.2023 (9 Weeks)
	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
3	First Mid Term Examinations	04.12.2023	08.12.2023 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		14.12.2023
5	2 nd Spell of Instructions	11.12.2023	09.02.2024 (9 Weeks)
6	Second Mid Term Examinations	12.02.2024	17.02.2024 (1 Week)
7	Preparation Holidays and Practical Examinations	19.02.2024	24.02.2024 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		21.02.2024
9	End Semester Examinations	26.02.2024	12.03.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 91

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		14.03.2024
2	1 st Spell of Instructions	14.03.2024	10.05.2024 (8 Weeks)
	Summer Vacation	13.05.2024	25.05.2024 (2 Weeks)
3	First Mid Term Examinations	27.05.2024	01.06.2024 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		06.06.2024
5	2 nd Spell of Instructions	03.06.2024	03.08.2024 (9 Weeks)
6	Second Mid Term Examinations	05.08.2024	09.08.2024 (1 Week)
7	Preparation Holidays and Practical Examinations	12.08.2024	17.08.2024 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		13.08.2024
9	End Semester Examinations	19.08.2024	31.08.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 92



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2023-24

MBA/MCA II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		16.09.2023
2	1 st Spell of Instructions (including Dussehra Recess)	16.09.2023	18.11.2023 (9 Weeks)
3	Dussehra Recess	23.10.2023	28.10.2023 (1 Week)
4	First Mid Term Examinations	20.11.2023	25.11.2023 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before		02.12.2023
6	2 nd Spell of Instructions	28.11.2023	29.01.2024 (8 Weeks)
7	Second Mid Term Examinations	30.01.2024	03.02.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	05.02.2024	09.02.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		07.02.2024
10	End Semester Examinations	12.02.2024	24.02.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 90

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		26.02.2024
2	1 st Spell of Instructions	26.02.2024	29.04.2024 (9 Weeks)
3	First Mid Term Examinations	30.04.2024	04.05.2024 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		10.05.2024
5	2 nd Spell of Instructions (including Summer Vacation)	06.05.2024	12.07.2024 (10 Weeks)
6	Summer Vacation	13.05.2024	25.05.2024(2 Weeks)
7	Second Mid Term Examinations	15.07.2024	20.07.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	22.07.2024	27.07.2024 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		24.07.2024
10	End Semester Examinations	29.07.2024	09.08.2024 (2 Weeks)

Note: No. of Working / Instructional Days: 90



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2024-25

B.Tech. I YEAR I & II SEMESTERS

S. No	Description	Duration	
		From	To
1	Induction programme	19.08.2024	24.08.2024
3	1 st Spell of Instructions (including Dussehra Recess)	27.08.2024	30.10.2024 (10 Weeks)
4	Dussehra Recess	07.10.2024	11.10.2024 (1 Week)
5	First Mid Term Examinations	01.11.2024	07.11.2024 (1 Week)
6	Submission of First Mid Term Exam Marks to the University on or before		13.11.2024
7	2 nd Spell of Instructions	08.11.2024	04.01.2025 (8 Weeks)
8	Second Mid Term Examinations	06.01.2025	10.01.2025 (1 Week)
9	Preparation Holidays and Practical Examinations	13.01.2025	21.01.2025 (1 Week)
10	Submission of Second Mid Term Exam Marks to the University on or before		17.01.2025
11	End Semester Examinations	22.01.2025	04.02.2025 (2 Weeks)

Note: No. of Working / Instructional Days: 90

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		06.02.2025
2	1 st Spell of Instructions	06.02.2025	04.04.2025 (8 Weeks)
3	First Mid Term Examinations	07.04.2025	11.04.2025 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		17.04.2025
5	2 nd Spell of Instructions (including Summer Vacation)	15.04.2025	24.06.2025 (10 Weeks)
6	Summer Vacation	12.05.2025	24.05.2025 (2 Weeks)
7	Second Mid Term Examinations	25.06.2025	01.07.2025 (1 Week)
8	Preparation Holidays and Practical Examinations	02.07.2025	08.07.2025 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		04.07.2025
10	End Semester Examinations	09.07.2025	23.07.2025 (2 Weeks)

Note: No. of Working / Instructional Days: 90


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2024-25

B. Tech II YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork		02.08.2024
2	1 st Spell of Instructions (including Dussehra Recess)	02.08.2024	28.09.2024 (8 Weeks)
3	First Mid Term Examinations	30.09.2024	05.10.2024 (1 Week)
	Dussehra Recess	07.10.2024	11.10.2024 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		17.10.2024
5	2 nd Spell of Instructions	14.10.2024	09.12.2024 (8 Weeks)
6	Second Mid Term Examinations	10.12.2024	13.12.2024 (1 Week)
7	Preparation Holidays and Practical Examinations	16.12.2024	21.12.2024 (1 Week)
8	Submission of Second Mid Term Exam Marks to the University on or before		18.12.2024
9	End Semester Examinations	23.12.2024	08.01.2025 (2 Weeks)

Note: No. of Working / Instructional Days: 90

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork		10.01.2025
2	1 st Spell of Instructions	10.01.2025	07.03.2025 (8 Weeks)
3	First Mid Term Examinations	10.03.2025	15.03.2025 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before		20.03.2025
5	2 nd Spell of Instructions (including Summer Vacation)	17.03.2025	31.05.2025 (11 Weeks)
6	Summer Vacation	12.05.2025	24.05.2025(2 Weeks)
7	Second Mid Term Examinations	02.06.2025	09.06.2025 (1 Week)
8	Preparation Holidays and Practical Examinations	10.06.2025	16.06.2025 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before		10.06.2025
10	End Semester Examinations	17.06.2025	27.06.2025 (2 Weeks)

Note: No. of Working / Instructional Days: 92



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Principals
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2024-25

B. Tech III YEAR I & II SEMESTERS

I SEM

S. No	Description	Duration	
		From	To
1	Commencement of I Semester classwork	12.08.2024	
2	1 st Spell of Instructions (including Dussehra Recess)	12.08.2024	05.10.2024 (8 Weeks)
3	Dussehra Recess	07.10.2024	11.10.2024 (1 Week)
4	First Mid Term Examinations	14.10.2024	19.10.2024 (1 Week)
5	Submission of First Mid Term Exam Marks to the University on or before	24.10.2024	
6	2 nd Spell of Instructions	21.10.2024	21.12.2024 (9 Weeks)
7	Second Mid Term Examinations	23.12.2024	31.12.2024 (1 Week)
8	Preparation Holidays and Practical Examinations	02.01.2025	07.01.2025 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	03.01.2025	
10	End Semester Examinations	08.01.2025	25.01.2025 (2 Weeks)

Note: No. of Working/ instructional days: 92

II SEM

S. No	Description	Duration	
		From	To
1	Commencement of II Semester classwork	27.01.2025	
2	1 st Spell of Instructions	27.01.2025	22.03.2025 (8 Weeks)
3	First Mid Term Examinations	24.03.2025	29.03.2025 (1 Week)
4	Submission of First Mid Term Exam Marks to the University on or before	03.04.2025	
5	2 nd Spell of Instructions (including Summer Vacation)	02.04.2025	13.06.2025 (10 Weeks)
6	Summer Vacation	12.05.2025	24.05.2025 (2 Weeks)
7	Second Mid Term Examinations	16.06.2025	21.06.2025 (1 Week)
8	Preparation Holidays and Practical Examinations	23.06.2025	28.06.2025 (1 Week)
9	Submission of Second Mid Term Exam Marks to the University on or before	25.06.2025	
10	End Semester Examinations	30.06.2025	11.07.2025 (2 Weeks)

Note: No. of Working/ instructional days: 91


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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-Grauate 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

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

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

4.0 Course registration

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

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

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

5.0 Subjects/ courses to be offered

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

6.0 Attendance requirements:

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

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

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

7.0 Academic requirements

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

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

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

7.3 Promotion Rules

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

- 7.4** A student (i) shall register for all courses/subjects covering 160 credits as specified and listed in the course structure, (ii) fulfills all the attendance and academic requirements for 160 credits, (iii) earn all 160 credits by securing SGPA ≥ 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 readmitted 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.

$$\text{Credit points (CP)} = \text{grade point (GP)} \times \text{credits} \dots \text{For a course}$$

- 9.7** A student passes the subject/ course only when $\text{GP} \geq 5$ ('C' grade or above)

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

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

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

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

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

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

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

Illustration of calculation of SGPA:

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

$$SGPA = 152/21 = 7.24$$

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

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

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.

10.0 Passing standards

- 10.1** A student shall be declared successful or ‘passed’ in a semester, if he secures a $GP \geq 5$ (‘C’ grade or above) in every subject/course in that semester (i.e. when the student gets an SGPA ≥ 5.00 at the end of that particular semester); and he shall be declared successful or ‘passed’ in the entire under graduate programme, only when gets a CGPA ≥ 5.00 for the award of the degree as required.
- 10.2** After the completion of each semester, a grade card or grade sheet shall be issued to all the registered students of that semester, indicating the letter grades and credits earned. It will show the details of the courses registered (course code, title, no. of credits, grade earned, etc.), credits earned.

11.0 Declaration of results

- 11.1** Computation of SGPA and CGPA are done using the procedure listed in 9.6 to 9.9.
- 11.2** For final percentage of marks equivalent to the computed final CGPA, the following formula may be used.

$$\% \text{ of Marks} = (\text{final CGPA} - 0.5) \times 10$$

12.0 Award of degree

- 12.1** A student who registers for all the specified subjects/ courses as listed in the course structure and secures the required number of 160 credits (with CGPA ≥ 5.0), within 8 academic years from the date of commencement of the first academic year, shall be declared to have ‘qualified’ for the award of B.Tech. degree in the chosen branch of Engineering selected at the time of admission.
- 12.2** A student who qualifies for the award of the degree as listed in item 12.1 shall be placed in the following classes.
- 12.3** A student with final CGPA (at the end of the under graduate programme) ≥ 8.00 , and fulfilling the following conditions - shall be placed in ‘first class with distinction’. However, he
 - (i) Should have passed all the subjects/courses in ‘first appearance’ within the first 4 academic years (or 8 sequential semesters) from the date of commencement of first year first semester.
 - (ii) Should have secured a CGPA ≥ 8.00 , at the end of each of the 8 sequential semesters, starting from 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.

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- 15.2** In case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.
- 15.3** The University may change or amend the academic regulations, course structure or syllabi at any time, and the changes or amendments made shall be applicable to all students with effect from the dates notified by the University authorities.
- 15.4** Where the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".

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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.

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		(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 of the examination (theory or	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

	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

	<p>misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the college campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.</p>	<p>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.</p>
7.	<p>Leaves the exam hall taking away answer script or intentionally tears off the script or any part thereof inside or outside the examination hall.</p>	<p>Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred for two consecutive semesters from class work and all University examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.</p>
8.	<p>Possesses any lethal weapon or firearm in the examination hall.</p>	<p>Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.</p>

9.	<p>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.</p>	<p>Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The student is also debarred and forfeits the seat.</p> <p>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.</p>
10.	<p>Comes in a drunken condition to the examination hall.</p>	<p>Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the student has already appeared for including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.</p>
11.	<p>Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.</p>	<p>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.</p>
12.	<p>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.</p>	

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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**JNTUH UNIVERSITY COLLEGE OF ENGINEERING, SCIENCE AND TECHNOLOGY, HYDERABAD
(AUTONOMOUS)**
Kukatpally, Hyderabad – 500085

Academic Regulations (R22) for B.Tech (Regular) Programme

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

JNTUH University College of Engineering, Science and Technology Hyderabad (JNTUH UCESTH) offers a 4-year (8 semesters) **Bachelor of Technology** (B.Tech) programme, under Choice Based Credit System (CBCS) with effect from the academic year **2022-23**.

2.0 Eligibility for Admission

- 2.1 Admission to the undergraduate (UG) B.Tech programme shall be made either on the basis of the merit rank obtained by the qualified student in entrance test conducted by the Government of Telangana (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 undergraduate programme in Engineering & Technology will be English only.

3.0 The Structure of B.Tech Programme

- 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 be forfeited seat in B.Tech course. Each student shall secure 160 credits (with CGPA ≥ 5) required for the completion of the undergraduate programme and award of the B.Tech degree.
- 3.2 **UGC/ AICTE** specified definitions/descriptions are adopted appropriately for various terms.

3.2.1 Semester Scheme

Each undergraduate programme is of 4 academic years (8 semesters) with the academic year divided into two semesters of 22 weeks (≥ 90 instructional days) each and in each semester -‘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 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 and Tutorials (T).
- 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 undergraduate programme in E&T (B.Tech programme) are broadly classified as shown in Table 1. The college follows the guidelines issued by AICTE/UGC.

Table 1. Category of Courses

S. No.	Broad Course Classification	Course Group/Category	Course Description
1	Foundation Courses (FnC)	BS – Basic Sciences	Includes mathematics, physics and chemistry
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 interdisciplinary 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	Industry Training/ Internship/ Industry Oriented Mini-project/ Mini-Project/ Skill Development Courses	Industry Training/ Internship/ Industry Oriented Mini-Project/ Mini-Project/ Skill Development Courses
9	Seminar	Seminar/Colloquium based on core contents related to parent discipline/department/branch of engineering.
10	Minor Courses	-
11	Mandatory Courses (MC)	-

4.0 Course Registration

- 4.1 A ‘faculty advisor/mentor shall be assigned to a group of 20 students. A mentor will provide information about the course structure and curriculum to the mentees. A mentor will also assist the mentees in choosing the subjects/courses, based on their competence, performance, fulfillment of prerequisites 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 online registration requests for any 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/mentor which shall be submitted to the college academic section forwarded through the Head of the Department. A copy of it shall be retained with the Head of the Department, faculty advisor/ mentor 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 6 credits (any 2 elective subjects), based on performance i.e. Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA), and completion of the ‘prerequisites’ as indicated for various subjects/courses, in the department course structure and contents of syllabus.
- 4.5 Choice for ‘additional subjects/courses’, not more than any 2 elective subjects in any semester, must be clearly indicated, which needs the specific approval and signature of the faculty advisor/mentor and HoD.
- 4.6 If the student submits ambiguous choices or multiple options or erroneous entries during online registration for the subject(s)/course(s) under a given/specify 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; furthermore, alternative choices will not be considered. However, if the subject/course that has already been listed for registration (by the Head of Department) in a semester could not be offered due to any unforeseen or unexpected reasons, then the student shall be allowed to exercise an alternative choice - either a new subject (added in the list by the Head of the Department) or an existing subject (subject to the availability of seats). Such alternative arrangements will be made by the Head of the Department with due notification and time-framed schedule within the first week from 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/mentor 'within a period of 15 days' from the beginning of the current semester.
- 4.9 **Open Electives:** Students are to register an Open Elective (OE-I) during III year II semester, an Open Elective (OE-II) during IV year I semester, and a PG Open Elective (PG OE-I) in V year I semester from the list of Open Electives given. However, a student cannot opt for an Open Elective offered by the parent department, if it is already listed under any category (Professional Core, Professional Elective, Mandatory Courses, etc) in any semester (including forthcoming semesters).
- 4.10. **Professional Electives:** The students have to choose six Professional Electives from the list of Professional Electives given in the course structure.
- 4.11 A student shall register for a **Real-Time or Field-Based Research Project** in II year II semester.
- 4.12 Students shall register for **Industry Oriented Mini Project/Internship/Skill Development Course** immediately after the end examinations of II year II semester and pursue it during summer vacation and continue through III year I and II semesters with regular course work not being affected by the same.
- 4.13 Undergraduate Major Project (UG Major Project) work shall be carried out in two stages: **Project Stage I and Project Stage II**. A student shall register for the UG Major Project during the IV year I semester, as per the instructions of the project guide/supervisor assigned by the Head of the Department and shall continue through IV year I and II semesters.

5.0 Subjects/ courses to be offered

- 5.1 A subject/course may be offered to the students, only if a minimum of 15 students opt for it.
- 5.2 More than one faculty member may offer the same subject.

- 5.3 A lab/practical may be included with the corresponding theory subject in the same semester) in any semester.
- 5.4 If more students opt for a particular subject/course, then the priority shall be given to students firstly on ‘first come first serve’ basis (i.e., based on the time of online entry) and secondly based on CGPA (student who has higher CGPA is given more preference).
- 5.3 If more students opt for a particular subject/course then the concerned Head of the Department shall decide whether or not to offer such a subject/course for two or more sections.
- 5.4 In case of options coming from students of other departments/branches/disciplines (not considering open electives), priority shall be given to the student of the ‘parent department’.

6.0 Attendance requirements:

- 6.1 A student is 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 (including mandatory or non-credit courses) in that semester. Two periods of attendance for each theory subject shall be given, if the student appears in the mid-term examination.
- 6.2 Shortage of attendance up to 10% (65% and above, and below 75%) can be condoned in each semester by the College Academic Committee on genuine and valid grounds (considering the days of attendance in sports, games, NCC and NSS activities and days of absence due to medical reasons) based on the student’s representation with supporting evidence.
- 6.3 A stipulated fee is levied on students whose shortage of attendance is condoned.
- 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 a semester are not eligible to appear for Semester End Examinations of the semester; they shall be detained and their registration for that semester shall stand cancelled. They will not be promoted to the next semester. Furthermore, marks earned in CIE of the subjects in detained semester become void, and henceforth the subjects are not graded, and SGPA and CGPA are not calculated. They may seek re-registration for all the subjects registered in that semester in which the student got detained, by seeking readmission for the 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 alternative electives may be chosen from the same set of elective subjects offered under that category.
- 6.6 However, a student fulfilling the attendance requirement in a semester is not eligible for readmission into the same.

- 6.7 When a student is detained due to shortage of attendance in any semester, he may be readmitted into that semester, as and when offered, with the academic regulations of the batch into which he gets readmitted to.

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 is deemed to have satisfied the academic requirements and earned the credits allotted to each subject/course (**Theory/Practical**) if the student secures not less than 35% (14 marks out of 40 marks) in the Continuous Internal Evaluation (CIE), not less than 35% (21 marks out of 60 marks) in the Semester End Examinations (SEE), 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 is deemed to have satisfied the academic requirements and earned the credits allotted to “**Real-Time/Field-Based Research Project**” and “**Industry Oriented Mini Project/Internship/Skill Development Course**” if the student secures not less than 40% marks (i.e. 40 marks out of 100 marks) in the evaluation of the same.

A student is deemed to have failed in Real-Time/Field-Based Research Project and Industry-Oriented Mini-Project/Internship/Skill Development Course, if he (i) does not submit a report on the same or (ii) does not make a presentation of the same before the evaluation committee as per schedule, or (iii) secures less than 40% marks in evaluation of the same.

A student who is failed in either Real-Time/Field-Based Research Project or Industry-Oriented Mini-Project may reappear once for the evaluation when they are scheduled again; if the student fails again in the evaluation of ‘one such reappearance’, the student has to reappear for the same in the subsequent semester, as and when it is offered.

- 7.3 A student shall pass in a **mandatory course** if he secures not less than 40 % of marks (40 marks out of 100 marks) in the CIE. A mandatory course is not graded and does not carry credits. Only Pass/Fail shall be indicated in Grade Card.
- 7.4 A student is deemed to have satisfied the academic requirements and earned the credits allotted to **Project Stage-I** if the student secures not less than 40% of marks (40 marks out of 100 marks) in the evaluation of the same.

A student is deemed to have failed if the student does not submit a report on work carried out during Project Stage-I or does not make a presentation of the same before the evaluation committee as per schedule or secures less than minimum marks in the evaluation.

A student who has failed may reappear once for evaluation when it is scheduled again; if the student fails in the evaluation of ‘one such reappearance’, the student has to reappear for the same in the subsequent semester, as and when it is offered.

- 7.5.** A student is deemed to have satisfied the academic requirements and earned the credits allotted to **Project Stage-II** if the student secures not less than 35% (14 marks out of 40 marks) in the Continuous Internal Evaluation (CIE), not less than 35% (21 marks out of 60 marks) in the Semester End Examinations (SEE), 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.

The student is deemed to have failed if the student does not submit a report on work carried out during Project Stage-II or does not make a presentation of the same before the evaluation committee as per schedule or secures less than minimum marks in either CIE or SEE or CIE+SEE taken together.

A student who has failed may reappear once for the evaluation when it is scheduled again; if the student fails again in the evaluation of “once such reappearance”, the student has to reappear for the same in the subsequent semester as and when the evaluation is scheduled.

7.6 Promotion Rules

Table 2. Rules of Promotion

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 20 credits out of 40 credits i.e., 50% credits up to first year second semester from all the relevant regular and supplementary examinations, whether the student appears in 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 48 credits out of 80 credits i.e., 60% credits up to second year second semester from all the relevant regular and supplementary examinations, whether the student appears in 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 72 credits out of 120 credits i.e., 60% credits up to third year second semester from all the relevant regular and supplementary examinations, whether the student appears in those examinations or not.
7	Fourth year first semester to Fourth year second semester	Regular course of study of fourth year first semester.

- 7.7 A student detained due to lack of credits (as mention in Table 3), shall be promoted to the next year of study only after acquiring the required number of credits with the academic regulations of the batch into which he gets admitted to.
- 7.8 A student is deemed to have satisfied the academic requirements of B.Tech if the student fulfills the following requirements:
- i) The student registers all courses/subjects covering **160** credits as specified and listed in the course structure.
 - ii) The student fulfills all the attendance and academic requirements for 160 credits.
 - iii) The student earns all 160 credits by securing '**C**' grade or above in each subject.
 - iv) The student scores **CGPA ≥ 5.0** at the end of the B.Tech course.
 - v) The student passes in all the mandatory courses.
- 7.9 The performance of the student in the 160 credits shall be considered for the calculation of the final CGPA (**at the end of undergraduate programme**), and shall be indicated in the grade card / marks memo of IV-year II semester.
- 7.10 If a student registers for 'additional/extra subjects' (in the parent department or other departments/branches of engineering) other than the subjects listed in the course structure of parent department totaling above 160 credits, then the performance in those 'extra subjects' although evaluated and graded using the same procedure as that of courses listed in the course structure will not be considered while calculating the SGPA and CGPA. For '**extra subjects**' registered, grade point and letter grade will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations of Items 6, 7.1 and 7.1 above.
- 7.11 A student eligible to appear in the Semester End Examination for any subject/course, but is absent or failed (thereby failing to secure '**C**' grade or above in UGP and '**B**' grade or above in PGP) may reappear for that subject/course in the supplementary examination as and when conducted. In such cases, marks earned in CIE in that subject/course will be carried over, and added to the marks obtained in the supplementary SEE for evaluating performance in that subject.

8.0 Evaluation - Distribution and Weightage of Marks

- 8.1** The performance of a student in Theory/Practical/Project Stage-II will be evaluated for 100 marks each, with 40 marks allotted for CIE and 60 marks for SEE.
- 8.2** **Continuous Internal Evaluation of a Theory subject** is done through mid-term examinations for 30 marks, assignments for 5 marks and viva-voce/PPT/Poster Presentation/Case Study on a topic in the concerned subject for 5 marks during a semester as follows:
- (i) There shall be two mid-term examinations during the semester conducted for 30 marks consisting of two parts with a total duration of 2 hours: Part – A for 10 marks and Part – B for 20 marks.
 - (ii) Part A is an objective paper or a quiz and shall consist of multiple-choice questions, fill-in the blanks, match the following, etc. for a total of 10 marks.
 - (iii) Part B is a descriptive paper and shall contain 6 questions out of which, the student needs to answer 4 questions each carrying 5 marks.
 - (iv) While the first mid-term examination shall be conducted for the first 50% syllabus, the second mid-term examination shall be conducted for the remaining 50% of the syllabus. The average of the two mid-term examinations shall be taken as final marks.
 - (v) Two assignments are evaluated for 5 marks each. 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 assignments shall be given by the subject teachers. The average of the two assignments shall be taken as the final marks.
 - (vi) The remaining 5 marks may be evaluated by conducting viva-voce in the subject or by evaluating the performance of the student in PPT/Poster/Case-Study presentation on a topic in the concerned subject before second mid-term examination.
- 8.3** **The Semester End Examination for theory subjects** will be conducted by the college examination branch for 60 marks consisting of two parts: Part - A of 10 marks and Part-B of 50 marks.
- (i) Part-A is a compulsory question which consists of ten sub-questions from all units carrying equal marks.
 - (ii) Part-B consists of ten questions (numbered from 2 to 11) with two questions from each unit with “either” “or” choice. This means that the student should answer five questions from either of the two questions from each unit.
 - (iii) The duration of Semester End Examination is 3 hours.

Note: For the subject, Computer Aided Engineering Graphics, the pattern of evaluation for CIE and SEE is same as that of a theory subject.

8.4 Continuous Internal Evaluation of a practical subject is done for 40 marks during the semester as follows:

- (i) A write-up on day-to-day experiments in the laboratory (in terms of aim, components/procedure, expected outcome) shall be evaluated for 10 marks
- (ii) 10 marks are awarded either for the performance in viva-voce (or) case study presentation (or) application development (or) poster presentation.
- (iii) Internal practical examination shall be conducted by the concerned laboratory teacher for 10 marks.
- (iv) The remaining 10 marks are awarded for laboratory project, which consists of the design (or) software/hardware model presentation (or) app development (or) prototype presentation at the end of the completion of laboratory course and before semester end practical examination.

8.5 The Semester End Examination for a practical subject shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed by the Principal/Vice-Principal.

The Semester End Examination (SEE) for a practical subject shall be held for 3 hours for a total of 60 marks evaluated as follows:

- (i) 10 marks for write-up
- (ii) 15 marks for experiment/program
- (iii) 15 marks for evaluation of results
- (iv) 10 marks for presentation on another experiment/program in the same laboratory course and
- (v) 10 marks for viva-voce on concerned laboratory course.

8.6 Mandatory/Non-Credit/Audit Courses are evaluated for 100 internal marks. A student shall secure 40% of marks (40 marks out of 100 marks) in the CIE for passing the same.

8.7 The student is eligible to appear in a SEE of a Theory/Practical subject if the student scores $\geq 35\%$ of marks (i.e. 14 marks out of 40 marks) in CIE. In case, the student appears in a SEE without scoring a minimum of 35% of marks in CIE, his performance in SEE for that subject shall stand cancelled in spite of appearing in the SEE.

8.8 In each of the Theory/Practical subjects the student shall earn 35% of marks (i.e. 14 marks out of 40 marks) in CIE, 35% of marks (i.e. 21 marks out of 60) in SEE and a total of 40% of marks (i.e. 40 marks out of 100 marks) in CIE and SEE taken together.

8.9 The evaluation of courses having **only CIE** in I year I semester and II year II semester is as follows:



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- Elements of CE/EEE/ME/ECE/CSE/Chem. Engg./Met. Engg. in I year I semester is evaluated for **50 marks**. The CIE for 50 marks shall be done through first and second mid-term examinations. The average marks of two mid-term examinations is taken as final marks in CIE. Student shall have to earn 40% i.e. 20 marks out of 50 marks in the average of two mid-term examinations. **There shall be no external evaluation.** The student is deemed to have failed, if he (i) is absent as per schedule, or (ii) secures less than 40% marks in this course.

For CSE/CSE (AI & ML), the CIE is done for 50 marks as follows:

- There shall be two mid-term examinations during the semester conducted for 40 marks consisting of two parts with a total duration of 2 hours: Part A for 20 marks and Part B for 20 marks.
- Part A is an objective paper or a quiz and shall consist of multiple-choice questions, fill-in-the blanks, match the following, etc. for a total of 20 marks.
- Part B is a descriptive paper and shall contain 6 questions out of which, the student needs to answer 4 questions each carrying 5 marks.
- While the first mid-term examination shall be conducted for the first 50% syllabus, the second mid-term examination shall be conducted for the remaining 50% of the syllabus. The average of the two mid-term examinations shall be taken as final marks.
- Two assignments are evaluated for 5 marks each. 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 assignments shall be given by the subject teachers. The average of the two assignments shall be taken as the final marks.
- The remaining 5 marks may be evaluated by conducting viva-voce in the subject or by evaluating the performance of the student in PPT/Poster/Case-Study presentation on a topic in the concerned subject before second mid-term examination.

For all other branches, the CIE is done for 50 marks as follows:

- A write-up on day-to-day experiments in the laboratory (in terms of aim, components/procedure, expected outcome) shall be evaluated for 10 marks
- 10 marks are awarded either for the performance in viva-voce (or) case study presentation (or) application development (or) poster presentation.
- Internal practical examination shall be conducted by the concerned laboratory teacher for 15 marks.

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- The remaining 15 marks are awarded for laboratory project, which consists of the design (or) model presentation (or) prototype presentation at the end of the completion of laboratory course and before semester end practical examination.
- **Real-Time/Field-Based Research Project** in II year II semester is evaluated for **50 marks**. The internal evaluation for 50 marks shall take place during the first and second mid-term examinations. The average marks of two mid-term examinations is taken as final marks in CIE. Student shall have to earn 40% i.e. 20 marks out of 50 marks in the average of the two mid-term examinations. There shall be no external evaluation. The student is deemed to have failed, if he (i) does not submit a report on the Project, or (ii) does not make a presentation of the same before the internal committee as per schedule, or (ii) secures less than 40% marks in this course.

8.10 A student shall undergo **Industry Training or do Internship/Industry-Oriented Mini-Project or attend a Skill Development Course (SDC) or publish a paper in reputed journal** and register for the same immediately after II year II semester end examinations and pursue it during summer vacation/semester break and continue through III year I and II semesters without the regular course work being affected by the same.

The report of the same may be submitted and presented before the committee in III year II semester before SEEs which shall be evaluated for **100 marks**.

The committee consists of an external examiner, Head of the Department, supervisor from industry (if any) for the Industry-Oriented Mini-Project (or) Internship, an internal supervisor and a senior faculty member of the department.

There shall be **no internal marks** for Industry Training (or) Internship (or) Mini-Project (or) Skill Development Courses (or) Paper Presentation in reputed journal.

8.11 UG Major Project work shall be carried out in two stages: Project Stage I and Project Stage II.

8.12 Project Stage I is initiated at the beginning of the IV year I semester. A report in consultation with the project supervisor allotted by the Head of the department shall be submitted by the student. The report shall consist of abstract, details of the project, literature review, objectives and plan of action and presented before the departmental committee for evaluation.

The departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall evaluate and approve the project work before second mid-term examination of IV year I semester.

The student is not eligible to register for the UG Major Project work if he 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.

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Project Stage I shall be evaluated for **100 internal marks** (CIE) by the departmental committee. A student is deemed to have failed if the student does not submit a report on work carried out during Project Stage-I or does not make a presentation of the same before the evaluation committee as per schedule or secures less than minimum marks in the evaluation.

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

- 8.13 Project Stage II** is the actual implementation of the project work during IV year II semester. The student shall submit a Project Report at the end of IV year II semester.

For Project Stage II, **60 marks of SEE** shall be evaluated by an external examiner and **40 marks of CIE** shall be evaluated by the departmental committee and the project supervisor.

Out of 40 marks for CIE, the departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall evaluate the project work for 20 marks and project supervisor shall evaluate for 20 marks.

The topics for Industry-Oriented Mini-Project/Internship/SDC etc. and the UG Major Project work shall be different.

The student is deemed to have failed, if he (i) does not submit a report on the project, or (ii) does not make a presentation of the same before the external examiner as per schedule, or (iii) secures less than 35% in either of the CIE or SEE or (iv) secures less than 40% marks in the sum total of the CIE and SEE of project stage-II taken together.

For conducting viva-voce of the UG Major Project, Principal selects an external examiner from the list of experts in the relevant branch submitted by the HoD.

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

- 8.14** If the marks secured by a student in the Continuous Internal Evaluation in a subject/course are less than 35% then the student must re-register in the failed subject within four weeks of commencement of the class work in the next academic year. (Head of the Department shall ensure no overlaps in the time-tables of the re-registered subject and the time-table of the semester to which the student currently belongs to)

In the event of the student taking this chance, his Continuous Internal Evaluation marks for 40 and Semester End Examination marks for 60 obtained in the previous attempt stand cancelled.

A student shall be given a one-time chance to re-register for a maximum of two subjects in addition to the subjects/courses of the current/regular semester.

9.0 Grading Procedure

- 9.1 Grades will be awarded to indicate the performance of students in each of the Theory Subjects, Laboratory/Practical subjects, Real-Time/Field-Based Research Project, Industry-Oriented Mini-Project/Internship/SDC, Minor Courses, Project Stage I, and Project Stage II, etc. based on the percentage of marks obtained in CIE+SEE as specified in item 8 above.
- 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:

Table 3. Grading Procedure of UGP

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
Greater than 80 and less than 90%	A ⁺ (Excellent)	9
Greater than 70 and less than 80%	A (Very good)	8
Greater than 60 and less than 70%	B ⁺ (Good)	7
Greater than 50 and less than 60%	B (Average)	6
Greater than 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 is deemed to have 'Failed' and is required to reappear as a 'supplementary student' in the Semester End Examination, as and when conducted. In such cases, marks scored in CIE (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 appear as a 'supplementary student' in the Semester End Examination, as and when conducted. In such a case, the marks scored in CIE (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 it only indicates 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 (excluding Mandatory Courses). 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) × No. of Credits for a Course
- 9.7 A student passes the subject/ course only when $GP \geq 5$ ('C' grade or above)
 - 9.8 The Semester Grade Point Average (SGPA) is calculated by dividing the sum of credit points (ΣCP) secured from all subjects/courses registered in a semester, by

the total number of credits registered during that semester. SGPA is rounded off to two decimal places. SGPA is thus computed as:

$$SGPA = \frac{\sum_{i=1}^N C_i G_i}{\sum_{i=1}^N C_i}$$

where ‘ i ’ is the subject indicator index (takes into account all subjects in a semester), ‘ N ’ is the number of subjects registered in the semester (as specifically required and listed in the course structure of the parent department), C_i is the number of credits allotted to the i^{th} subject, and G_i represents the Grade Points (GP) corresponding to the Letter Grade awarded for the 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

$$CGPA = \frac{\sum_{j=1}^M C_j G_j}{\sum_{j=1}^M C_j}$$

where ‘ M ’ is the total number of subjects (as specifically required and listed in the course structure of the parent department) the student has ‘registered’ from the 1st semester onwards up to and inclusive of the semester S, ‘ j ’ is the subject indicator index (takes into account all subjects from 1 to S semesters), C_j is the number of credits allotted to the j^{th} subject, and G_j represents the Grade Points (GP) corresponding to the Letter Grade awarded for the j^{th} subject. After registration, and completion of I year I semester however, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Table 4. Illustration of calculation of SGPA:

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

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

Table 5. 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

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

The calculation process of CGPA illustrated above will be followed for each subsequent semester until 8th semester. The CGPA will be indicated in the grade card at the end of the 8th semester.

- 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 will be mentioned in the semester Memorandum of Grades if all subjects of that semester are passed in first attempt. Otherwise the SGPA shall be mentioned only on the Memorandum of Grades of the last attempt in which he passed the remaining failed subjects in a semester. However, mandatory courses will not be taken into consideration for grading and calculation of SGPA and CGPA.

10.0 Passing Standards

- 10.1** A student shall be declared successful or ‘passed’ in a semester if he secures a GP ≥ 5.0 (‘C’ grade or above) in every subject/course of UGP and GP ≥ 6.0 (‘B’ grade or above) in every subject/course of PGP in that semester
- 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, number of credits), grade earned, credits earned, SGPA and CGPA. **There is no exemption of credits in any case.**

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 computing final % of marks equivalent to the computed final CGPA, the following formula may be used:

$$\% \text{ of marks} = (\text{final CGPA} - 0.5) \times 10$$

12.0 Award of Degree

- 12.1** A student who registers for all the specified subjects/courses as listed in the course structure and secures the required number of 160 credits (with CGPA ≥ 5.0), within 8 academic years from the date of commencement of the first academic year, shall be declared to have ‘qualified’ for the award of B.Tech degree in the 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 undergraduate 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 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 undergraduate programme) ≥ 7.0 but < 8.00 shall be placed in ‘First Class’.
- 12.5** Students with final CGPA (at the end of the undergraduate programme) ≥ 6.00 but < 7.00 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 undergraduate programme) ≥ 5.00 but < 6 , shall be placed in 'pass class'.
- 12.7** A student with final CGPA (at the end of the undergraduate 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'.

12.9 Award of 2-Year B.Tech. Diploma Certificate

- i) A student who exits after two years shall be awarded **2-Year UG Diploma Certificate** in the concerned discipline of engineering if the student completes all academic and attendance requirements, and earns 80 credits up to B.Tech II year II semester within 4 years from the date of admission.
- ii) A student who exits after two years and is awarded 2-Year UG Diploma Certificate is allowed to rejoin after an year and complete the remaining years of study of 4-Year B.Tech program along with new batch of students by registering the courses/subjects of III year I semester before commencement of the class work for that semester.
- iii) The student who exits the 4-Year B.Tech program after II year of study and chooses to rejoin the B.Tech program must surrender the 2-Year UG Diploma Certificate awarded to him subject to the eligibility for completion of Course/Degree.
- iv) A student may be permitted to take a break of one year after the completion of II year II semester or III year II semester and allowed to reenter the course in **next academic year** to complete the remaining years of study and fulfill all the academic credentials within a stipulated duration i.e. double the duration of the course (i.e. within 8 academic years for 4-year program).

13. B. Tech. with Minor program

- A student shall be awarded B.Tech with Minor, if he/she earns a minimum of 18 credits in the respective minor program in addition to the 160 credits of 4 year B.Tech program. These credits shall be acquired by either registering courses in the respective minor program offered by the college or through MOOCs equivalent to the courses offered by the university.
- A student enrolled in a B.Tech program may do a Minor in another area (*ex., B. Tech. in Mechanical Engineering with Minor in AI&ML*).
- The additional **18 credits for B.Tech with Minor program may be obtained** between the 5th and 8th semester within the 4-year B. Tech program.

13.1 The following are the recommended areas for Minor programs:

Students can chose only one minor program (if offered) from the following programs offered by the various departments.

S. No.	Minor Program	Eligible branch of students	@ Offering Department
1.	Artificial Intelligence & Machine Learning	All branches, except B. Tech. CSE (AI&ML)	CSE
2.	Cyber Security	All branches	CSE
3.	Data Science	All branches	CSE
4.	IoT	All branches	ECE
5.	Robotics	All branches	ME
6.	Electric Vehicles	All branches	EEE
7.	Construction Technology	All branches.	CE

@: As per AICTE guidelines.

13.2 Academic Regulations for B. Tech. with Minor Program:

- a) The duration of the course and all the academic regulations are on par with regular 4-years B. Tech. program.
- b) The weekly instruction hours, internal and external evaluation, and award of grades for courses registered in minor program are on par with courses of 4-year B.Tech. program.
- c) After registering for the Minor program, if a student is unable to earn the required 18 credits in a specified duration (twice the duration of the course i.e. 8 years), he/she shall not be awarded Minor degree. However, if the student earns the required 160 credits of B.Tech., he/she will be awarded only B. Tech degree in the concerned branch.
- d) There is no transfer of credits from Minor program to regular B.Tech program and vice-versa.
- e) The additional 18 credits shall be earned by either registering courses in the respective minor program offered by the host department in the college or do a course in MOOCs platform.
- f) For the course selected under MOOCS platform following guidelines may be followed:
 - i. Prior to registration of MOOCS courses, formal approval of the courses by the University/College is essential. The approval is based on the

- parameters like the institute / agency offering the course, syllabus, credits, duration of the programme and mode of evaluation etc.
 - ii. Minimum credits for MOOCs course must be equal to or more than the credits specified in the Minor course structure provided by the University/College.
 - iii. Only grades/marks above pass-grade/pass-marks shall be considered for inclusion of grades in minor grade memo.
 - iv. Any expenses incurred for the MOOCs courses are to be met by the students only.
- g) A student after registering for a minor program can withdraw at any time. On withdrawal, a student will be awarded only B.Tech in the concerned branch if he fulfills all academic requirements and earns 160 credits.
- i) A student can choose only one minor program along with his/her basic engineering degree. A student who chooses an honours program is not eligible to choose a minor program and vice-versa.
 - j) A student can graduate with a minor if he/she fulfills the requirements of regular B.Tech. program and the requirements of minor program.

13.3. Eligibility Conditions to Register for A Minor Program

- i) Students who have earned all the credits (no active backlogs) till II year I semester at the time of entering III year I semester are eligible to register for minor program.
- ii) A prior approval of mentor and Head of the Department for enrolment into minor program is mandatory before the commencement of III year I semester.
- iii) Registration to a minor program is purely the choice of the students. Only top 50% of the total class in each specialization are eligible to register for minor programs. The merit is based on the overall percentage of **marks without active backlogs up to 3rdsemester (II-year I semester)**.

13.4 Registration for the Courses in Minor Program

- i) At the beginning of each semester, just before the commencement of classes, students shall register for the courses/subjects listed in the course structure of minors program along with the courses/subjects of regular B.Tech. program.
- ii) The maximum number of courses/subjects a student can register in a minor program in a semester is limited to two (three in case a laboratory course is included in the course structure for the semester).
- iii) The registration fee is Rs. 1000/- per one credit.

14.0 Withholding of results

14.1 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.

15.0 Transitory Regulations

A. For students detained due to shortage of attendance:

1. A Student who has been detained in I year of R18 regulations due to lack of attendance, shall be permitted to join I year I semester of R22 regulations and he is required to complete the study of B.Tech+M.Tech programme within the stipulated period of ten academic years from the date of first admission in I year.
2. A student who has been detained in any semester of II, III and IV years of R18 regulations for want of attendance shall be permitted to join the corresponding semester of R22 regulations and is required to complete the study of B.Tech+M.Tech within the stipulated period of ten academic years from the date of first admission in I year. The R22 academic regulations under which a student has been readmitted shall be applicable to that student from that semester. See rule (C) for further Transitory Regulations.

B. For students detained due to shortage of credits:

3. A student of R18 regulations who has been detained due to lack of credits shall be promoted to the next semester of R22 regulations only after acquiring the required number of credits as per the corresponding regulations of his/her first admission. The total credits required are 160 including both R18 & R22 regulations. The student is required to complete the study of B.Tech. within the stipulated period of eight academic years from the year of first admission. The R22 academic regulations are applicable to a student from the year of readmission. See rule (C) for further Transitory Regulations.

C. For readmitted students in R22 Regulations:

1. A student who has failed in any subject under any regulation has to pass those subjects in the same regulations.
2. The maximum credits that a student acquires for the award of degree, shall be the sum of the total number of credits secured in all the regulations of his/her study including R22 regulations. There is NO exemption of credits in any case.
3. If a student is readmitted to R22 Regulations and has any subject with 80% of syllabus common with his/her previous regulations, that particular subject in R22 regulations will be substituted by another subject suggested by the college.

Note: If a student readmitted to R22 regulations and has not studied any subjects/topics in his/her earlier regulations of study which is prerequisite for the subjects in R22 regulations, the student shall attend remedial classes conducted by the department to cover those subjects/topics.

16.0 Student Transfers

- 16.1** There shall be no branch transfers after the completion of admission process.
- 16.2** There shall be no transfers from one college/stream to another within the constituent colleges and units of Jawaharlal Nehru Technological University Hyderabad.

17.0 Scope

- 17.1** The academic regulations should be read as a whole, for the purpose of any interpretation.
- 17.2** In case of any ambiguity in the academic regulations, course structure and/or syllabus, students may contact the chairperson, Board of Studies and Principal for clarification.
- 17.3** The university/college 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 authorities of the university/college.
- 17.4** Where the words "he", "him", "his", occur in the regulations, they include "she", "her", "hers".
- 17.5** Where the words "subject" or "subjects", occur in the regulations, they also imply "course" or "courses".

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6. All the other regulations as applicable to B. Tech. 4-year degree course (Regular) will hold good for B. Tech. (Lateral Entry Scheme).
7. LES students are not eligible for 2-Year B. Tech. Diploma Certificate.

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19. Malpractices Rules

The following malpractice rules are applicable to Internal Examinations as well as SEE of Regular as well as Supplementary Examinations:

	Nature of Malpractices	Punishment
	If the candidate:	
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 he is appearing but has not made use of the same. Material shall also include any marks on the body of the candidate 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.
1 (b)	Gives assistance or guidance or receives it from any other candidate orally or by any other body language methods or communicates through cell phones with any candidate 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 candidates 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 candidate is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The hall ticket of the candidate is to be cancelled.

3	Impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The performance of the original candidate, who has been impersonated, shall be cancelled in all the subjects of the examination (including practical and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate 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 candidate 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 candidate is also debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate 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	<p>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. 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.</p> <p>Assaults the officer-in-charge or any person on duty in or outside the examination hall or any of his relations whether by words, either spoken or written or by signs. Indulges in any other act of misconduct or mischief which results in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.</p>	<p>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 candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.</p>
7	<p>Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.</p>	<p>Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate 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 candidate is also debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.</p>

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 candidate 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 candidate is also debarred and forfeits the seat.
9	If student of the college, who is not a candidate 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 candidate 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 candidate 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 candidate 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.
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 candidate has appeared 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 College / University for further action or punishment	

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EXAMINATION BRANCH

II YEAR B.TECH - I SEMESTER - R18 REGULATION SUPPLEMENTARY EXAMINATIONS JULY/AUGUST-2024

TIME TABLE

TIME → FN: 10:00 AM TO 1:00 PM

BRANCH	DATE, SESSION AND DAY					TIME → FN: 10:00 AM TO 1:00 PM
	02-08-2024 FRIDAY	05-08-2024 MONDAY	09-08-2024 FRIDAY	12-08-2024 MONDAY	14-08-2024 WEDNESDAY	
CIVIL ENGINEERING (01-C E)	Surveying and Geomatics	Fluid Mechanics	Strength of Materials - I	Probability and Statistics	Engineering Geology	---
ELECTRICAL AND ELECTRONICS ENGINEERING (02- EEE)	Engineering Mechanics	Electrical Circuit Analysis	Analog Electronics	Electrical Machines - I	Electromagnetic Fields	---
MECHANICAL ENGINEERING (03- ME)	Probability and Statistics & Complex Variables	Thermodynamics	Mechanics of Solids	Production Technology	---	Material Science and Metallurgy
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	---

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DATE: 08-07-2024

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EXAMINATION BOARD

II YEAR B.TECH - I SEMESTER - R18 REGULATION SUPPLEMENTARY EXAMINATIONS JULY/AUGUST-2024

TIME TABLE

TIME → FN: 10:00 AM TO 1:00 PM

BRANCH	DATE, SESSION AND DAY				
	02-08-2024 FRIDAY	05-08-2024 MONDAY	09-08-2024 FRIDAY	12-08-2024 MONDAY	14-08-2024 WEDNESDAY
COMPUTER SCIENCE & ENGINEERING (05-CSE)	Analog and Digital Electronics	Data Structures	---	Object Oriented Programming using C++	Computer Organization and Architecture
ELECTRONICS AND INSTRUMENTATION ENGINEERING (10EIE)	Electronic Measurements	Network Theory	Transducers Engineering	Signals and Systems	Electronic Devices and Circuits
INFORMATION TECHNOLOGY (12-IT)	Analog and Digital Electronics	Data Structures	---	Object Oriented Programming using C++	Computer Organization and Microprocessor
MECHANICAL ENGINEERING (MECHATRONICS) (14-MEET)	Probability and Statistics & Complex Variables	---	Mechanics of Solids	Thermal Science	Electronic Devices and Circuits

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DATE: 08-07-2024

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EXAMINATION BRANCH

II YEAR B.TECH - I SEMESTER - R18 REGULATION SUPPLEMENTARY EXAMINATIONS JULY/AUGUST-2024

TIME TABLE

TIME → FN: 10:00 AM TO 1:00 PM

BRANCH	DATE, SESSION AND DAY				
	02-08-2024 FRIDAY	05-08-2024 MONDAY	09-08-2024 FRIDAY	12-08-2024 MONDAY	14-08-2024 WEDNESDAY
METALLURGY AND MATERIAL ENGINEERING (18-MMT)	Probability and Statistics & Complex Variables	Mineral Processing	Introduction to Transport Phenomenon	Physical Metallurgy	Materials Thermodynamics
ELECTRONICS AND COMPUTER ENGINEERING (19-ECM)	Analog and Digital Electronics	Data Structures	Signals, Systems and Signal Processing	Object Oriented Programming using C++	Business Economics & Financial Analysis
AERONAUTICAL ENGINEERING (21-AE)	Probability and Statistics & Complex Variables	Basic Electrical and Electronics Engineering	Theory of Structures	Fluid Mechanics and Hydraulics	Aerodynamics - I
MINING ENGG. (25-MIE)	Probability and Statistics & Complex Variables	---	Mechanics of Solids	Fluid Mechanics and Hydraulic Machines	Development of Mineral Deposits

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

II YEAR B.TECH - I SEMESTER - R18 REGULATION SUPPLEMENTARY EXAMINATIONS JULY/AUGUST-2024

T I M E T A B L E

TIME → FN: 10:00 AM TO 1:00 PM

BRANCH	DATE, SESSION AND DAY				
	02-08-2024 FRIDAY	05-08-2024 MONDAY	09-08-2024 FRIDAY	12-08-2024 MONDAY	14-08-2024 WEDNESDAY
PETROLEUM ENGG. (27-PTME)	Probability and Statistics & Complex Variables	surveying and off shore structures	General Geology	—	Business Economics & Financial Analysis
COMPUTER SCIENCE AND BUSINESS SYSTEMS (32-CSBS)	Discrete Structures	Data Structures	Computational statistics	Python Programming	Computer Organization and Architecture
COMPUTER SCIENCE INFORMATION TECHNOLOGY (33-CSIT)	Discrete Structures	Data Structures	Computational statistics	Python Programming	Computer Organization and Architecture
INFORMATION TECHNOLOGY AND ENGINEERING (34-ITE)	Analog & Digital Electronics	Data Structures	Statistical Methods for Data Science	Python Programming	Computer Organization & Microcontroller

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EXAMINATION BRANCH
II YEAR B.TECH - I SEMESTER - R18 REGULATION SUPPLEMENTARY EXAMINATIONS JULY/AUGUST-2024

TIME TABLE

TIME → FN: 10:00 AM TO 1:00 PM

BRANCH	02-08-2024 FRIDAY	05-08-2024 MONDAY	09-08-2024 FRIDAY	DATE, SESSION AND DAY			16-08-2024 FRIDAY
				12-08-2024 MONDAY	14-08-2024 WEDNESDAY	16-08-2024 FRIDAY	
COMPUTER ENGINEERING (SOFTWARE ENGINEERING) (56-CSE(SE))	Analog and Digital Electronics	Data Structures	--	Python Programming	Computer Organization and Architecture	Computer Oriented Statistical Methods	
COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY) (62-CSE(CS))	Analog and Digital Electronics	Data Structures	Mathematical and Statistical Foundations	Python Programming	Computer Organization and Architecture	---	
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 (DATA SCIENCE) (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))	Discrete Mathematics	Data Structures	--	Python Programming	Analog and Digital Electronics	Computer Oriented Statistical Methods	

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II YEAR B.TECH - I SEMESTER - R18 REGULATION SUPPLEMENTARY EXAMINATIONS JULY/AUGUST-2024 TIME TABLE

TIME → FN: 10:00 AM TO 1:00 PM

BRANCH	DATE, SESSION AND DAY			
	02-08-2024 FRIDAY	05-08-2024 MONDAY	09-08-2024 FRIDAY	12-08-2024 MONDAY
COMPUTER SCIENCE AND ENGINEERING (NETWORKS) (70-CSE(NETWORKS))	Analog and Digital Electronics	Data Structures	---	Python Programming
TEXTILE ENGINEERING (71-TTE)	Probability & Statistics & Complex Variables	General Textile Technology	Yarn Manufacture - I	Fabric Manufacture - I
ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (72-AIDS)	Discrete Mathematics	Data Structures	Operating Systems	Python Programming
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (73-AI&ML)	Discrete Mathematics	Data Structures	Mathematical and Statistical Foundations	Python Programming
COMPUTER SCIENCE AND DESIGN (74-CSD)	Discrete Mathematics	Data Structures	Digital Electronics	Python Programming

DATE: 08-07-2024

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

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EXAMINATION BRANCH

IV YEAR B.TECH-I SEMESTER - R18, R16, R15, R13 REGULATIONS-REGULAR/ SUPPLEMENTARY EXAMINATIONS DECEMBER-2023/JANUARY-2024

TIME TABLE FOR SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS

TIME: FN 10.00 AM TO 1.00 PM

Branch	27-12-2023 WEDNESDAY	29-12-2023 FRIDAY	02-01-2024 TUESDAY	04-01-2024 THURSDAY	06-01-2024 SATURDAY	08-01-2024 MONDAY	12-01-2024 FRIDAY	17-01-2024 WEDNESDAY
CIVIL ENGINEERING- 01	Pavement Design (R16)	-	--	--	Earth and Rock fill Dams and Slope Stability (R16)	Construction Technology and Management (R16) ---	---	---
ELECTRICAL AND ELECTRONICS (02-EEE)	High Voltage engineering(R18)				Ground Improvement Techniques (R16)	Prestressed Concrete(R16)	Traffic Engineering (R16)	Structural Analysis-II (R13)
	Power System Operation and Control(R18)							
	Alloy Steels(R18)							
	Basics of Sensors Technology(R18)							
	Cyber Law & Ethics(R18)							
	Coal Gasification, CBM & Shale Gas							
	Disaster Preparedness & Planning Management(R18)							
	Entrepreneurship Fundamentals of Management for Engineers(R18)						Switch Gear and Protection (R16)	
	Fundamentals of Internet of Things							
	Quantitative Analysis for Business Decisions(R18)							
	Industrial Management(R18)							
	Non-Conventional Energy Sources(R18)							
	General Geology(R18)							
	Testing of Materials(R18)							
	Introduction to Mining Technology(R18)							
	High voltage engineering(R18)							

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IV YEAR B.TECH-I SEMESTER - R18, R16, R15, R13 REGULAR/ SUPPLEMENTARY EXAMINATIONS DECEMBER-2023/JANUARY-2024
TIME TABLE FOR SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS

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MECHANICAL ENGINEERING (03-ME)	CAD & CAM (R18) --	--	--	--	--	--	--	--
ELECTRONICS AND COMMUNICATION ENGINEERING (04-ECE)	--		Electronic Measurements and Instrumentation (R18)		Embedded System Design (R16)	VLSI Design(R13)	Digital Image Processing - (R16)	
COMPUTER SCIENCE AND ENGINEERING (05-CSE)				Ad hoc and Sensor Networks (R16) Design Patterns- (R16)				
				Mobile Computing- (R16) Artificial Intelligence (R16) Machine Learning (R18) --			Machine learning (R16)	

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TIME TABLE FOR SUBSTITUTE SUBJECTS FOR READMITTED STUDENTS

TIME: FN 10:00 AM TO 1:00 PM

Branch	27-12-2023 WEDNESDAY	29-12-2023 FRIDAY	02-01-2024 TUESDAY	04-01-2024 THURSDAY	06-01-2024 SATURDAY	08-01-2024 MONDAY	12-01-2024 FRIDAY	17-01-2024 WEDNESDAY
INFORMATION TECHNOLOGY (12-IT)	Cryptography and Network Security- (R16) -----	-----	-----	-----	-----	-----	-----	---
METALLURGICAL AND MATERIALS ENGINEERING (18-MMT)	--	Environmental Degradation of Materials (R18)			-----	-----	-----	---
AUTOMOBILE ENGINEERING (24-AME)	--	---	CAD/CAM - (R16)	--	--	-----	-----	---
PETROLEUM ENGINEERING (27 - PTME)	Petroleum Refinery Engineering- (R16) ---		Petrochemical Engineering - (R16) ---			-----	-----	---

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TIME TABLE

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BRANCH	27-12-2023 WEDNESDAY	29-12-2023 FRIDAY	02-01-2024 TUESDAY	04-01-2024 THURSDAY	06-01-2024 SATURDAY	08-01-2024 MONDAY
CIVIL ENGINEERING (01-CE)			E3	E4	OE2	
			Remote Sensing & GIS	Irrigation and Hydraulic Structures	Basic Mechanical Engineering Data Structures	
			Advanced Structural Design	Pipeline Engineering	Electric Drives And Control Fundamentals of Biomedical Applications Python Programming	
			Ground Improvement Techniques	Ground Water Hydrology	Basics of Aeronautical Engineering Java Programming Artificial Intelligence Surface Engineering	
					Principles of Entrepreneurship Natural Gas Engineering Engineering Materials Material Handling In Mines Utilization of Electrical Energy Electronic Sensors Data Mining IoT Automation AI Applications Optimization Techniques Data Analytics Introduction to Natural Language Processing Enterprise Resource Planning Social Media Security 5G Technologies Computer Security & Audit Assurance Design Thinking Intellectual Property Rights Health & Safety In Mines	
						<i>Lavani</i>

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**IV YEAR B.TECH – I SEMESTER- R18 REGULATION REGULAR /SUPPLEMENTARY EXAMINATIONS DECEMBER-2023/JANUARY-2024
TIME TABLE**

TIM E→FN: 10:00 AM TO 1:00 PM

BRANCH	27-12-2023 WEDNESDAY	29-12-2023 FRIDAY	02-01-2024 TUESDAY	04-01-2024 THURSDAY	06-01-2024 SATURDAY	08-01-2024 MONDAY
	E2	E3	E3	E4	OE2	E3
Additive Manufacturing	Power Plant Engineering	Computational Fluid Dynamics	Fundamentals of Biomedical Applications Data Structures Basics of Aeronautical Engineering			Automobile Engineering
Automation in Manufacturing			Java Programming			
MEMS	Renewable Energy Sources	Fluid Power Systems	Turbo Machinery	Intellectual Property Rights		
				Electric Drives and Control Artificial Intelligence Social Media Security		
				Introduction to Natural Language Processing Optimization Techniques Data Analytics		
				Engineering Materials Python Programming Remote Sensing & GIS Principles of Entrepreneurship		
				Electronic Sensors Natural Gas Engineering Material Handling In Mines Health & Safety In Mines Surface Engineering Utilization of Electrical Energy		
				5g Technologies IOT Automation AI Applications Enterprise Resource Planning		
				Computer Security & Audit Assurance Design Thinking Data Mining		
MECHANICAL ENGINEERING (03-ME)	Refrigeration & Air Conditioning					

Date: 06-12-2023

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IV YEAR B.TECH – I SEMESTER- R18 REGULATION REGULAR/SUPPLEMENTARY EXAMINATIONS DECEMBER-2023/JANUARY-2024

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BRANCH	27-12-2023 WEDNESDAY	29-12-2023 FRIDAY	02-01-2024 TUESDAY	04-01-2024 THURSDAY	06-01-2024 SATURDAY	08-01-2024 MONDAY
ELECTRONICS AND COMMUNICATION ENGINEERING (04-ECE)			E3	E4	OE2	
			Artificial Neural Networks	Biomedical Instrumentation	Material Handling In Mines Optimization Techniques Data Analytics Data Mining	-
			Scripting Languages	Database Management Systems	Enterprise Resource Planning Social Media Security Design Thinking 5G Technologies IOT Automation	
			Digital Image Processing		AI Applications Introduction To Natural Language Processing Remote Sensing & GIS Artificial Intelligence Python Programming Basic Mechanical Engineering Surface Engineering Principles of Entrepreneurship Health & Safety In Mines Fundamentals of Biomedical Applications Data Structures	
			Microwave and Optical Communications	Professional Practice law & Ethics	Network Security and Cryptography	
					Basics of Aeronautical Engineering Utilization of Electrical Energy Engineering Materials Intellectual Property Rights Natural Gas Engineering Computer Security & Audit Assurance Java Programming Electric Drives and Control	

Date: 06-12-2023

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R16

Code No: 136DQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, August/September - 2024

REFRIGERATION AND AIR CONDITIONING
(Mechanical Engineering)

Time: 3 hours

Max. Marks: 75

- Note:** i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART - A

(25 Marks)

- 1.a) State different types of ideal cycle of refrigeration. [2]
- b) Explain in brief the necessity of Refrigeration. [3]
- c) State the effect of super heating in vapour compression refrigerator. [2]
- d) Why in practice a throttle valve is used in vapour compression refrigerator rather than an expansion cylinder to reduce pressure between the condenser and the evaporator? [3]
- e) State different types of compressors used in refrigerators. [2]
- f) State the desirable properties of ideal refrigerants. [3]
- g) Discuss the principle of Hilsch tube. [2]
- h) Discuss the function of absorber in vapour absorption refrigeration system. [3]
- i) Define RSHF and relative humidity. [2]
- j) What are the factors which need to be considered during design of car air conditioning? [3]

PART - B

(50 Marks)

- 2.a) Define refrigeration, State the Name of different types of system used for cooling of aircraft cabin, Also Explain with schematic diagram Bootstrap air Refrigeration system. Refrigerating machine working between the temperature limits of -13°C and 37°C and has 90% relative COP. It consumes 4.8 kW power. Determine TR capacity. For same TR capacity, how much power will be consumed by carnot refrigerator? Also for the same power consumption, determine TR capacity of carnot refrigerator operating between same temperature limits. [5+5]

OR

3.a) An air refrigerator working on Bell coleman cycle takes in air at 1 bar and at a temperature of 10°C . The air is compressed to 5 bar abs. The same is cooled to 25°C in the cooler before expanding in the expansion cylinder to cold chamber pressure of 1 bar. The compression and expansion laws followed are $PV^{1.35} = C$ and $PV^{1.3} = C$ respectively. Determine C.O.P of the plant and net refrigeration effect per kg of air. Take $C_p = 1.009 \text{ kJ/kg K}$ and $R = 0.287 \text{ kJ/kg K}$ for air.

b) For a sample of air having 22°C DBT, Relative humidity 30% at barometric pressure of 760mm of Hg. Calculate i) Vapour pressure ii) Vapour density iii) Humidity ratio iv) Enthalpy. [5+5]

- 4.a) Explain the working of Vapour compression refrigeration system with the help of a neat sketch. Mention the advantages of vapour compression refrigeration system over air refrigeration system.

A R-12 vapour compression system has saturated suction temperature of -5°C and saturated discharge temperature of 40°C . The refrigerant vapour is dry-saturated at the suction of compressor and becomes superheated after compression. For one ton of refrigeration capacity, Calculate (i) Refrigerating effect (ii) mass flow rate (iii) Power and (iv) COP of the system. [5+5]

OR

- 5.a) Explain standard vapour compression refrigeration cycle with T-S and P-H diagram.

A vapour compression machine is used to maintain a temp of 250K in refrigerated space. The ambient temp is 310K . The compressor takes dry saturated vapour of R-12. A minimum 10°C temp difference is required at the evaporator as well as at condenser. There is no sub cooling of liquid. If refrigerant flow rate is 2 kg/min , find i) Tonne of refrigeration ii) Power requirement iii) Ratio of COP of this cycle to COP of Carnot cycle. [5+5]

- 6.a) What are desirable characteristics of ideal refrigerant? Explain how refrigerants are designated.
b) What are the advantages of multistage compressor? [6+4]

OR

- 7.a) Explain multiple evaporator at different temperature with individual expansion valve with neat sketch and P-H diagram.

- b) State the classification of condenser used in refrigeration system? [6+4]

- 8.a) Briefly explain construction and working of Practical vapour absorption refrigeration system. Also mention the advantages of this system.
b) Distinguish between vapour absorption refrigeration system with vapour compression refrigeration system. [5+5]

OR

- 9.a) State the principle of Steam jet refrigeration system. Explain the working of Steam jet refrigeration system.

b) Derive an expression for the COP of an ideal vapour absorption system in terms of temperature T_G at which heat is supplied to the generator, the temperature T_E at which heat is absorbed in the evaporator and the temperature T_C at which heat is discharged from the condenser and absorber. [5+5]

- 10.a) Classify air conditioning systems. Explain Central air conditioning system with a neat sketch.

- b) A small office hall of 25 persons capacity is provided with summer air conditioning system with the following data:

Outside conditions $= 34^{\circ}\text{C DBT and } 28^{\circ}\text{C WBT}$

Inside conditions $= 24^{\circ}\text{C DBT and } 50\% \text{ RH}$

Volume of air supplied $= 0.4 \text{ m}^3/\text{min/person}$

Sensible heat load in room $= 125600 \text{ kJ/h}$

Latent heat load in the room $= 42000 \text{ kJ/h}$

Find the sensible heat factor of the plant. [5+5]

R18

Code No: 157EY

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, June/July - 2024

PYTHON PROGRAMMING

(Common to CE, EEE, ME, ECE, EIE, MCT, MMT)

Max.Marks:75

Time: 3 Hours

- Note:** i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART - A

(25 Marks)

- 1.a) What does immutable mean? Which Python types are mutable and which are not? [2]
- b) List the Integer Type Bitwise Operators. [3]
- c) Describe the file method used for intra-file motion. [2]
- d) What is the significance of else and finally clause in exceptions? [3]
- e) Write the regular expression to match the set of all valid e-mail addresses. [2]
- f) Describe the Threading-Related Standard Library Modules. [3]
- g) Mention the main steps required to write GUI application using Tkinter module. [2]
- h) List the Web Programming Related Modules for Web Programming. [3]
- i) What is the Python DB-API? [2]
- j) What are the differences between the cursor executexxx() methods? [3]

PART - B

(50 Marks)

- 2.a) Discuss the Mapping type built-in methods.
- b) Develop python script uses lists as a queue to store and retrieve strings entered through this menu-driven text application, using only the append() and pop() list methods. [5+5]

OR

- 3.a) Describe the complex number and its built-in attributes.
- b) Describe the Tuple operators and built-in functions. [5+5]

- 4.a) Discuss about persistent storage modules.
- b) Describe the different ways of importing modules with examples. [5+5]

OR

- 5.a) Prompt for a number N and file F, and display the total number of lines in that text file and then display the first N lines of F.
- b) Describe the try Statement with Multiple excepts and except Statement with Multiple Exceptions. [5+5]

Liaqat

- N7 N7 N7 N7 N7 N7 N7 N7
- 6.a) Develop multithreading application using threading module with Subclass Thread and create subclass instance.

b) Discuss the popular functions and methods from the re module.

[5+5]

- N7 N7 N7 N7 N7 N7 N7 N7
- 7.a) Develop a multithreading application to execute three separate recursive functions for Fibonacci, Factorial, gcd.

b) Enumerate and describe all the objects available in the threading module.

[5+5]

- N7 N7 N7 N7 N7 N7 N7 N7
- 8.a) Develop a GUI script that contains one label, three buttons and another QUIT button. Pressing any of the three buttons will result in changing the text label so that it will then contain the text of the Button (widget) that was pressed. The entire application must exit when QUIT button is pressed.

b) Describe about the urllib2 Module.

OR

- N7 N7 N7 N7 N7 N7 N7 N7
- 9.a) Develop a GUI script using Pmw module.

b) Discuss the urllib.urlopen() File-like Object Methods.

[5+5]

- N7 N7 N7 N7 N7 N7 N7 N7
- 10.a) Describe the DB-API Module Attributes and connect() function attributes.

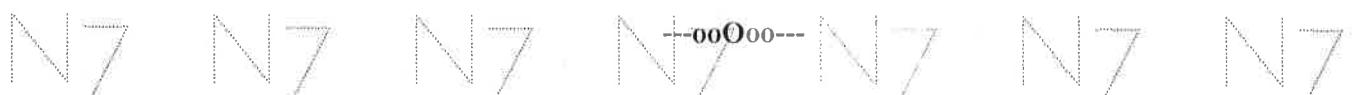
b) Write a python program to insert rows and update rows in a table.

OR

- N7 N7 N7 N7 N7 N7 N7 N7
- 11.a) Explain the different ways of using database adapters.

b) Explain about cursor object and its attributes.

[5+5]



R18

Code No: 157EK

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, June/July - 2024

DATA STRUCTURES

Time: 3 Hours

(Common to CE, EEE, ME, ECE)

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART - A

(25 Marks)

- 1.a) What are the applications of stacks? [2]
 b) Perform following operations on a queue if it is implemented as a linked list:

insert 10

insert 20

insert 11

insert 34

insert 21

delete

delete

insert 45

insert 62

c) Give an example for collisions in hashing. [3]

d) Distinguish between double hashing and rehashing. [2]

e) Distinguish between binary search trees and AVL trees. [3]

f) What are red black trees? [2]

g) Which data structure is used for implementation of depth first search and why? [2]

h) Compare and contrast various graph implementation methods. [3]

i) What are the limitations of Knuth-Morris-Pratt algorithm? [2]

j) What is standard trie? Give example. [3]

PART - B

(50 Marks)

2. What is singly linked list? With examples show insertion, deletion and searching operations on it. [10]

OR

3. What is a stack? Show array and linked list implementation of stack. Write pseudo code for insert and delete when stack is implemented as a linked list. [10]

4. What is hashing? List and explain various hash functions with examples. [10]

OR

5. Explain why collisions occur during hashing and how they are resolved. [10]

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6. Explain how insert, delete and search operations are performed on AVL trees. Give examples. [10]

OR

7. What are binary search trees? Write pseudo code for insert, delete and search operations on AVL trees. [10]

8. What is breadth first search? Explain with example and write pseudo code for it. [10]

OR

9. Explain heap sort with example and write pseudo code for it. [10]

10. Explain Boyer –Moore algorithm in detail. [10]

N7 11. Compare and contrast Compressed Tries and Suffix tries. [10] N7 N7

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Code No: 157EX

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, June/July - 2024

PRINCIPLES OF ENTREPRENEURSHIP
(Common to CE, EEE, ME, ECE, CSE, IT, MIE, CSBS, CSE(CS), CSE(AIML), CSE(DS),
CSE(IOT))

N7 Time: 3 Hours

Max.Marks:75

Note: i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

- 1.a) Define Entrepreneurship. [2]
- b) List the entrepreneurial traits. [3]
- c) What do you understand by record keeping? [2]
- d) Summarize the process of recruitment. [3]
- e) What are the objectives of District Industries Center (DIC)? [2]
- f) List the functions of directorate of industries. [3]
- g) What do you understand by market segmentation? [2]
- h) List the thrust areas of production management. [3]
- i) What is a factory under Factories Act, 1948? [2]
- j) Define appropriate government under Industrial Disputes Act, 1947. [3]

PART – B

(50 Marks)

2. Elaborate on the following methods of generating business ideas:
 - a) Observation
 - b) Problem inventory analysis. [5+5]
3. Explain in detail the important components of a business plan. And also, elaborate on writing and evaluating business plan. [10]
4. Discuss in detail the new venture expansion strategies and issues to consider with suitable illustration. [10]
5. Elaborate on various sources of capital/ Describe the techniques of marketing and sales Control in managing the new venture. [10]

OR

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6. Explain the objectives of Small Industries Development Bank of India (SIDBI)? Discuss in detail its key functions. [10]

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7.a) Discuss the objectives and functions of Khadi and Village Industries Commission (KVIC).
b) Brief on the role of TCO in supporting entrepreneurship in India. [5+5]

8. Discuss how will you analyze and select the most appropriate production technique. [10]

OR

9. Explain the importance of inventory control? Discuss some methods of inventory control with their suitability. [10]

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10. Explain in detail the main provisions of Payment of Bonus Act, 1965. [10]

OR

11. Discuss salient features of Employee's State Insurance Act, 1948. [10]

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Code No: 136AW

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, August/September - 2024

CRYPTOGRAPHY AND NETWORK SECURITY

(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

- 1.a) Draw the model for Network Security. [2]
- b) Give a brief note on Steganography. [3]
- c) Differentiate between block cipher and Stream cipher. [2]
- d) Discuss the concept of diffusion and confusion in block ciphers. [3]
- e) What is a digital signature and why is it important in cryptography? [2]
- f) What role do certificates play in the distribution of public keys? [3]
- g) List and define the primary threats to web security. [2]
- h) What enhancements does IEEE 802.11i bring to wireless LAN security? [3]
- i) List the security services offered by Authentication Header. [2]
- j) What is IKE, and what role does it play in IPsec implementation? [3]

PART – B

(50 Marks)

- 2.a) Give the classification of attacks.
- b) Discuss the significance of key range and key size in cryptography. How do these factors affect the security and performance of cryptographic systems? [5+5]
- 3.a) Explain Polyalphabetic substitution cipher with an example. [5+5]
- b) Compare and contrast symmetric and asymmetric key cryptography.
4. What are the different modes of operation for block ciphers? Explain each in detail. [10]
OR
5. Explain how the Diffie-Hellman key exchange works. Include a discussion of its security implications. [10]
6. In detail, explain the working secure hash algorithm (SHA-512). [10]
OR
7. Describe the working mechanism of Kerberos V4. How does it ensure secure authentication in a network? [10]

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8. Explain the need and operation of SSL protocol.

[10]

OR

- 9.a) Discuss strategies to enhance mobile device security in a corporate environment.

- b) Analyze the role of digital certificates in HTTPS. How do they contribute to the security of web communications? [5+5]

- 10.a) Explain how ESP provides confidentiality and integrity protection for IP packets.

- b) Mention the benefits of combining multiple security associations in IPsec communication. [5+5]

OR

- 11.a) Explain how confidentiality and integrity are provided to an email by PGP.

- b) What is Single Sign-On (SSO), and how does it streamline authentication across multiple systems? [5+5]

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Code No: 157BB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, June/July - 2024

CRYPTOGRAPHY AND NETWORK SECURITY
(Computer science and Engineering)

Time: 3 Hours

Max. Marks: 75

- Note: i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub.questions.

PART - A

(25 Marks)

- 1.a) What is Cryptography? [2]
b) Discuss briefly about key size. [3]
c) Define Symmetric Key Cipher. [2]
d) Write a brief note on Public Key Cryptosystems. [3]
e) What is a Hash Function? [2]
f) Write a short note on Key Management and Distribution. [3]
g) Define Transport Level Security. [2]
h) Write a short note on Wireless Security. [3]
i) Define E-Mail Security. [2]
j) What is IP Security? [3]

PART - B

(50 Marks)

- 2.a) Discuss in detail the principles of Security.
b) Explain in detail about Substitution Techniques. [5+5]

OR

- 3.a) Write a detailed note on possible types of Attacks.
b) Explain in detail about Security Services. [5+5]

- 4.a) Explain in detail about Block Cipher Operations.
b) Discuss in detail the implementation of RSA Algorithm. [5+5]

OR

- 5.a) Write a detailed note on AES.
b) Explain in detail about the implementation of Diffie-Hellman Key Exchange. [5+5]

6. What is Message Authentication? Explain in detail about Secure Hash Algorithm (SHA-512). [10]

OR

- 7.a) Write a brief note on HMAC.
b) Explain in detail about Kerberos. [5+5]

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8. Write a detailed note on Secure Socket Layer and Transport Layer Security.

[10]

- 9.a) Explain in detail about IEEE 802.11 Wireless LAN.
b) Discuss in detail the Web security considerations.

[5+5]

10. Write a detailed note on Pretty Good Privacy.

OR

- 11.a) Discuss in detail about Virtual Elections.
b) Explain in detail about Authentication Header.

[5+5]

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DRK INSTITUTE OF SCIENCE AND TECHNOLOGY

BOWRAMPET(V), HYDERABAD-043

III B.TECH II SEM INTERNAL LAB EVALUATION SHEET AUGUST-2024

BRANCH : EEE

NAME OF LAB : Cyber Security

S No	H T No	Name of the Student	MARKS 100
1	22N75A0201	MYADARI SANDEEP	86
2	22N75A0202	THALLAPELLY RACHANA	84
3	22N75A0204	BESHA VIKAS	85
4	22N75A0205	KONDU SAI	89
5	22N75A0206	NAKKA THARUN	90
6	22N75A0207	KETHAVATH SATHISH	78
7	22N75A0210	MANNE BHANU PRASAD	77
8	22N75A0211	SOMASHETTI SANDEEP	86
9	22N75A0212	VEDDA VINAY	87
10	22N75A0213	SAROLLU VINEETH	88
11	22N75A0214	KEDRI NAVYA	90
12	22N75A0215	KUMMARI SRAVANTHI	92
13	22N75A0216	ALLAKONDA SRIKANTH GOUD	87
14	22N75A0217	ERROLLA YESURATHNAM	89
15	22N75A0218	KAMMARIKATHA SREENU	89
16	22N75A0219	BARUPATI ARAVIND	90
17	22N75A0221	M R SAI TEJ	85
18	22N75A0222	NANDIGAMA RAVITEJA	84
19	22N75A0223	PODISHETTI VISHAL	83
20	22N75A0224	YEGURU MADHUSUDHAN	82
21	22N75A0225	NEELI SHIVA VENKATA SAI	84
22	22N75A0226	CHILUKA MALLIKARJUN	84
23	22N75A0229	TALELMA KISHORE	86.

SIGN. OF STAFF

brix
DRK Institute of Science & Technology
Bowrampet, Outbullapur, Hyderabad-500 043.

C.P.S. S.
HOD

III B.TECH II SEM II MID EXAMINATION AUGUST-2024

BRANCH: ECE

SUBJECT NAME: DSP

S No	H T No	Name of the Student	SUB 10M	OBJ 10M	ASST 5M	TOTAL 25M
27	22N75A0402	CH POOJA	06	7.5	05	19
28	22N75A0403	A AKHILA	66	07	05	18
29	22N75A0404	KOPPULA RAJESHWARI	07	5.5	05	18
30	22N75A0405	CHOWHAN KAVITHA		05	05	10
31	22N75A0406	PAGIDALA PAVAN KALYAN	06	07	05	18
32	22N75A0408	ABBADI RAMYA	04	6.5	05	16
33	22N75A0409	PREETHI KUMARI	06	6.5	05	18
34	22N75A0410	DEVARAGATTU RANADEEP	05	7.5	05	18
35	22N75A0411	CHANDUPATLA SAI PRAGATHI	05	7.5	05	18
36	22N75A0412	KONGE AJAY DATT	05	07	05	17
37	22N75A0413	BOMMANA SWAPNA	06	6.5	05	18
38	22N75A0415	VADDERA RUTH	06	6.5	05	18
39	22N75A0416	ELLANDULA HARIKA			05	05
40	22N75A0417	KONDAN VIDYA	66	07	05	18
41	22N75A0418	SHIVAM MISHRA			05	05
42	22N75A0419	KADAKUNTLA SHALINI	05	4.5	05	15
43	22N75A0420	SYED IMRAN ALI	07	6.5	05	19
44	22N75A0421	DUMPATI MANOJ	06	07	05	18
45	22N75A0422	VASAMSHETTY PREM	02	7.5	05	15
46	22N75A0423	KANUGULA SRISAILAM	05	7.5	05	18
47	22N75A0424	DK SIRISHA	02	96	05	18

Signature of the STAFF

Annu

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DRK INSTITUTE OF SCIENCE AND TECHNOLOGY

BOWRAMPET(V), HYDERABAD-043

III B.TECH II SEM II MID EXAMINATION AUGUST-2024

BRANCH: ECE

3/2 ECE MID-2 DSP

SUBJECT NAME: DSP

S No	H T No	Name of the Student	SUB 10M	OBJ 10M	ASST 5M	TOTAL 25M
1	21N71A0401	GANDHAM RAJESH	06	7.5	05	19
2	21N71A0402	CHINTHALENI HEMA	09	4.5	05	19
3	21N71A0403	T PRIYA	07	07	05	19
4	21N71A0404	BOMMINENI LOKESH	07	7.5	05	20
5	21N71A0405	NIMMALA PUNAR RADHA KRISHNA	06	07	05	18
6	21N71A0406	KONDRU RAMU	06	07	05	18
7	21N71A0407	YERROLLA KRISHNA MURTHY			05	05
8	21N71A0408	KATUKU SAIKRISHNA	07	6.7	05	19
9	21N71A0409	PATAMONI VENKATESH	06	7.5	05	19
10	21N71A0410	RATHOD RAJU	06	04	05	15
11	21N71A0411	KOUDAYAPALLY SHIVA KUMAR	06	07	05	18
12	21N71A0412	SETLEM MANOJ HARSHA	06	1	05	05
13	21N71A0413	JAKKIREDDY MADHUSUDHAN REDDY	06	7.5	05	19
14	21N71A0414	SURAJ RANA	05	7.5	05	18
15	21N71A0415	MAHENDER SINGH	05	7.5	05	18
16	21N71A0417	JEEDI RAM GOPAL VARMA	06	07	05	18
17	21N71A0418	CHINCHOLI PRASHANTH KUMAR	06	04	05	15
18	21N71A0419	GUNVANTH NANDINI	05	08	05	18
19	21N71A0420	TAMMINENI SRUTHI	05	7.5	05	18
20	21N71A0421	DANDUGA RUSHITHA REDDY	05	07	05	17
21	21N71A0422	MANGALI MAHESH	02	7.5	05	16
22	21N71A0423	YEKKLADEV SAI VAMSI	06	7.5	05	19
23	21N71A0424	MADIGELA VENKAT SAI	06	07	05	18
24	21N71A0425	GIRMIGARI DANIEL	06	07	05	18
25	21N75A0424	PALEM SRINATH	05	05	05	15
26	22N75A0401	NEELAKANTAM SAIKEERTHI	05	05	05	15

PRINCIPAL

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