B.TECH. - COURSE STRUCTURE – R23 (Applicable from the academic year 2023-24 onwards)

INDUCTION PROGRAMME

S.No.	Course Name	Category	L-T-P-C
1	Physical Activities Sports, Yoga and Meditation, Plantation	МС	0-0-6-0
2	Career Counselling	MC	2-0-2-0
3	Orientation to all branches career options, tools, etc.	МС	3-0-0-0
4	Orientation on admitted Branch corresponding labs, tools and platforms	EC	2-0-3-0
5	Proficiency Modules & Productivity Tools	ES	2-1-2-0
6	Assessment on basic aptitude and mathematical skills	MC	2-0-3-0
7	Remedial Training in Foundation Courses	МС	2-1-2-0
8	Human Values & Professional Ethics	MC	3-0-0-0
9	Communication Skills focus on Listening, Speaking, Reading, Writing skills	BS	2-1-2-0
10	Concepts of Programming	ES	2-0-2-0

Group-A Branches:

CSE, EEE, Chemical Engineering, Food Technology, Petroleum Technology, Pharmaceutical Engineering

Group-B Branches:

Agricultural Engineering, Civil Engineering, Mechanical Engineering, Mining Engineering, Automobile Engineering, Robotics, ECE & ECE-Allied, CSE-Allied & IT

S.No.	Category	Title	L/D	Т	Р	Credits
1	BS&H	Communicative English	2	0	0	2
2	BS&H	Engineering Chemistry/ Chemistry/Fundamental Chemistry	3	0	0	3
3	BS&H	Linear Algebra & Calculus	3	0	0	3
4	Engineering Science	Basic Civil & Mechanical Engineering	3	0	0	3
5	Engineering Science	Introduction to Programming	3	0	0	3
6	BS&H	Communicative English Lab	0	0	2	1
7	BS&H	Engineering Chemistry/ Chemistry/Fundamental Chemistry Lab	0	0	2	1
8	Engineering Science	Engineering Workshop	0	0	3	1.5
9	Engineering Science	Computer Programming Lab	0	0	3	1.5
10	BS&H	Health and wellness, Yoga and Sports	-	-	1	0.5
		Total	14	00	11	19.5

B.Tech. – I Year I Semester (for Group-A Branches)

B.Tech. – I Year I Semester (for Group-B Branches)

S.No.	Category	Title	L/D	Т	P	Credits
1	BS&H	Engineering Physics	3	0	0	3
2	BS&H	Linear Algebra & Calculus	3	0	0	3
3	Engineering Science	Basic Electrical & Electronics Engineering	3	0	0	3
4	Engineering Science	Engineering Graphics	1	0	4	3
5	Engineering Science	Introduction to Programming	3	0	0	3
6	Engineering Science	IT Workshop	0	0	2	1
7	BS&H	Engineering Physics Lab	0	0	2	1
8	Engineering Science	Electrical & Electronics Engineering Workshop	0	0	3	1.5
9	Engineering Science	Computer Programming Lab	0	0	3	1.5
10	BS&H	NSS/NCC/Scouts & Guides/Community Service	-	-	1	0.5
		Total	13	00	15	20.5

S.No.	Category	Title	L/D	Т	Р	Credits
1	BS&H	Engineering Physics	3	0	0	3
2	BS & H	Differential Equations & Vector Calculus	3	0	0	3
3	Engineering Science	Basic Electrical and Electronics Engineering	3	0	0	3
4	Engineering Science	Engineering Graphics	1	0	4	3
5	Engineering Science	IT Workshop	0	0	2	1
6	Professional Core	Data Structures / Electrical Circuit Analysis – I (Branch specific)	3	0	0	3
7	BS&H	Engineering Physics Lab	0	0	2	1
8	Engineering Science	Electrical and Electronics Engineering Workshop	0	0	3	1.5
9	Professional Core	Data Structures Lab / Electrical Circuit Analysis – I Lab	0	0	3	1.5
10		NSS/NCC/Scouts & Guides/Community Service	-	-	1	0.5
		Total	13	00	15	20.5

B.Tech. – I Year II Semester (for Group-A Branches)

B.Tech. – I Year II Semester (for Group-B Branches)

S.No.	Category	Title	L	Т	Р	Credits
1	BS&H	Communicative English	2	0	0	2
2	BS & H	Engineering Chemistry / Chemistry / Fundamental Chemistry	3	0	0	3
3	Engineering Science	Differential Equations & Vector Calculus	3	0	0	3
4	Engineering Science	Basic Civil & Mechanical Engineering	3	0	0	3
5	Professional Core	Engineering Mechanics/Network Analysis/ Data structures (Branch specific)	3	0	0	3
6	BS&H	Communicative English Lab	0	0	2	1
7	BS&H	Engineering Chemistry / Chemistry / Fundamental Chemistry Lab	0	0	2	1
8	Engineering Science	Engineering Workshop	0	0	3	1.5
9	Professional Core	Engineering Mechanics & Building Practices Lab Engineering Mechanics Lab/Network Analysis Lab/ Data structures Lab	0	0	3	1.5
10		Health and wellness, Yoga and Sports	-	-	1	0.5
		Total	14	00	11	19.5

B.Tech II Year I Semester	r
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S.No.	Category	Title	L	Т	Р	Credits
1	BS&H	Engineering Mathematics (Branch specific)	3	0	0	3
2	BS&H	Universal Human Values – Understanding Harmony	2	1	0	3
3	Engineering Science		2	0	0	2
4	Professional Core		3	0	0	3
5	Professional Core		3	0	0	3
6	Engineering Science		0	0	2	1
7	Professional Core		0	0	3	1.5
8	Professional Core		0	0	3	1.5
9	Skill Enhancement course		0	1	2	2
10	Audit Course	Environmental Science	2	0	0	-
	Tot	al	15	2	10	20

B.Tech. – II Year II Semester

S.No.	Category	Title	L	Т	Р	Credits
1	Management Course - I		2	0	0	2
2	Engineering Science		3	0	0	3
3	Professional Core		3	0	0	3
4	Professional Core		3	0	0	3
5	Professional Core		3	0	0	3
6	Professional Core		0	0	2	1
7	Professional Core		0	0	3	1.5
8	Professional Core		0	0	3	1.5
9	Skill Enhancement course		0	1	2	2
10	BS&H	Design Thinking & Innovation	1	0	2	2
	Total		15	1	12	22
Mar	ndatory Community Service Proje	ect Internship of 08 wo vacation	eeks du	ration du	iring su	mmer

S.No.	Category	Title	L	Т	Р	Credits
1	Professional Core		3	0	0	3
2	Professional Core		3	0	0	3
3	Professional Elective - I		2	0	0	2
4	Open Elective - I		3	0	0	3
5	Open Elective - II		3	0	0	3
6	Professional Core		0	0	3	1.5
7	Professional Core		0	0	3	1.5
8	Skill Enhancement course		0	1	2	2
9	BS&H	Tinkering Lab	0	0	2	1
10	Evaluation of Community Service Internship		-	-	-	2
	Total		14	1	10	22

B.Tech. – III Year I Semester

B.Tech. – III Year II Semester

S.No.	Category	Title	L	Т	Р	Credits			
1	Professional Core		3	0	0	3			
2	Professional Core		3	0	0	3			
3	Professional Core		3	0	0	3			
4	Professional Elective - II		3	0	0	3			
5	Professional Elective - III		2	0	0	2			
6	Open Elective - III		3	0	0	3			
7	Professional Core		0	0	2	1			
8	Professional Core		0	0	2	1			
9	Skill Enhancement course		0	1	2	2			
10	Audit Course	Technical Paper	2	0	0	-			
		Writing & IPR							
	Total 19 1 06 21								
	Mandatory Industry Internship of	of 08 weeks duration	during su	ummer	vacatio	on			

S.No.	Category	Title	L	Т	Р	Credits
1	Professional Core		3	0	0	3
2	Professional Core		3	0	0	3
3	Management Course - II		2	0	0	2
4	Professional Elective - IV		3	0	0	3
5	Professional Elective - V		3	0	0	3
6	Open Elective - IV		3	0	0	3
7	Professional Core		0	0	2	1
8	Professional Core		0	0	2	1
9	Skill Enhancement		0	1	2	2
	Course					
10	Audit Course	Constitution of India	2	0	0	-
11	Internship	Evaluation of Industry	-	-	-	2
		Internship				
		Total	19	1	06	23

B.Tech. – IV Year I Semester

B.Tech. – IV Year II Semester

S.No.	Category	Title	L	Т	P	Credits
1	Internship & Project	Full semester	0	0	24	12
	Work	Internship & Project				
		Work				