

1.2.1 List of courses offered across all programmes during the year

S.NO	Programme Code	Programme Name	Course Code	Course Name
1	1	CIVIL	23SH1T03	Chemistry
2	1	CIVIL	23SH1T04	Linear Algebra and Calculus
3	3	MECH	23ME1T01	Engineering Graphics
4	2	EEE	23EE1T01	Basic Electrical and Electronics Engineering
5	5	IT	23IT1T01	Introduction to Programming
6	1	CIVIL	23SH1L03	Chemistry Lab
7	2	EEE	23EE1L01	Electrical and Electronics Engineering Workshop
8	5	IT	23IT1L01	Computer Programming Lab
9	5	IT	23IT1L02	IT Workshop
10	1	CIVIL	23PC1P01	Health and Wellness, Yoga and Sports
11	1	CIVIL	23SH2T01	Communicative English
12	2	EEE	23EE2T03	Electrical circuit Analysis-I
13	1	CIVIL	23SH2T02	Engineering Physics
14	1	CIVIL	23SH2T05	Differential equations and Vector Calculus
15	3	MECH	20ME2T02	Basic Civil & Mechanical Engineering
16	3	MECH	23ME2L01	Engineering Workshop
17	1	CIVIL	23SH2L01	Communicative English Lab
18	1	CIVIL	23SH2L02	Engineering Physics Lab
19	2	EEE	23EE2L03	Electrical Circuits – I Lab
20	1	CIVIL	23PC2P01	NCC / NSS / Scouts & Guides / Community service
21	1	CIVIL	20CE7T01	Traffic Engineering & Management
22	1	CIVIL	20CE7T02	Construction Management & Cost Analysis
23	1	CIVIL	20CE7T03	Foundation Engineering
24	1	CIVIL	20OE7T01	MEMS(ECE)
25	1	CIVIL	20OE7T02	Optimization techniques (ME)
26	1	CIVIL	20HSE7T01	Principles of Economics & Management
27	1	CIVIL	20CE7S05	Skill Advanced course-
28	1	CIVIL	20CE7I02	Summer Internship
29	1	CIVIL	20CE7T03	Foundation Engineering
30	1	CIVIL	20OE7T01	Digital Marketing
31	1	CIVIL	20OE7T02	Human Resource development and OB
32	1	CIVIL	20CE8P01	Project-Project work, seminar and internship in Industry
33	2	EEE	20EE7E02	DC Drives(PEC-III)
34	2	EEE	20EE7E03	BioMedical Engineering(PEC-III)
35	2	EEE	20EC7E05	VLSI System(PEC-III)
36	2	EEE	20CS7E06	Computer Networks(PEC-III)
37	2	EEE	20EE7E04	Solar and wind Energy Systems (PEC-IV)
38	2	EEE	20EE7E05	AC Drives (PEC-IV)

39	2	EEE	20EE7E06	Digital control system (PEC-IV)
40	2	EEE	20EC7E06	Embedded systems and Applications(PEC-IV)
41	2	EEE	20IT7E06	Principles of Software Engineering(PEC-IV)
42	2	EEE	20EE7E09	Industrial Automation(PEC-V)
43	2	EEE	20EC7E07	Digital Image and Video processing(PEC-V)
44	2	EEE	20IT7E07	Big-Data(PEC-V)
45	2	EEE	20EE8P01	Project/Internship in Industry
46	3	MECH	20MEXO01	Optimization Techniques
47	3	MECH	20MEXO02	Robotics
48	3	MECH	20MEXO03	Industrial Management Sciences
49	3	MECH	20MEXO04	Automation in Manufacturing
50	3	MECH	20ME7E01	Finite Element Methods
51	3	MECH	20ME7E04	Reliability Engineering
52	3	MECH	20ME7E05	Mechanical Vibrations
53	3	MECH	20ME7E08	Production Planning Control
54	3	MECH	20ME8P01	Major Project work,
55	4	ECE	20EC7E01	INFORMATION THEORY AND CODING
56	4	ECE	20EC7E02	WIRELESS SENSOR NETWORKS
57	4	ECE	20EC7E03	OPTICAL COMMUNICATIONS
58	4	ECE	20EC7E04	Radar Engineering
59	4	ECE	20EC7E05	SATELLITE COMMUNICATIONS
60	4	ECE	20EC7E06	Low Power VLSI Design
61	4	ECE	20EC7E07	INTERNET OF THINGS
62	4	ECE	20EC7E08	MICRO WAVE ENGINEERING
63	4	ECE	20EC7E09	DIGITAL IMAGE PROCESSING
64	4	ECE	20EC7E10	PHOTONIC DEVICES
65	4	ECE	20EC7E11	CELLULAR MOBILE COMMUNICATION
66	4	ECE	20EC7E12	NANO ELECTRONICS
67	4	ECE	20EC7M01	MANAGEMENT SCIENCE
68	4	ECE	20ECXO01	PRINCIPLES OF COMMUNICATIONS
69	4	ECE	20ECXO02	DIGITAL IMAGE PROCESSING
70	4	ECE	20EC6O03	BIO-MEDICAL ENGINEERING
71	4	ECE	20EC6O04	Design of IoT Systems
72	4	ECE	20ECXO05	MEMS
73	4	ECE	20ECXO06	MECHATRONICS
74	5	CSE	20CS7E01	<b>Professional Elective - III</b>
75	5	CSE		<b>1. Mobile Computing</b>
76	5	CSE		2. Neural Networks and Soft Computing
77	5	CSE		3. Ad-hoc and Sensor Networks
78	5	CSE		4. Deep Learning Techniques
79	5	CSE		5. Information Retrieval System
80	5	CSE		<b>Professional Elective - IV</b>

81	5	CSE	20CS7E06	<b>1. Distributed systems</b>
82	5	CSE		2. Social Networks & Semantic Web
83	5	CSE		3. Computer Vision
84	5	CSE		4. MOOCS-NPTEL / SWAYAM
85	5	CSE		5. Game Theory
86	5	CSE	20CS7E11	<b>Professional Elective - V</b>
87	5	CSE		<b>1. Block Chain Technologies</b>
88	5	CSE		2. Quantum Computing
89	5	CSE		3. Ethical Hacking
90	5	CSE		4. MOOCS-NPTEL / SWAYAM
91	5	CSE		5. Parallel Algorithms
92	5	CSE	20ME7001	<b>Open Elective-III - Optimization techniques - ME</b>
93	5	CSE	20EC7003	<b>Open Elective-IV - Bio Medical Engineering -ECE</b>
94	5	CSE	20SH7E04	Humanities and Social Science Elective – Entrepreneurship Development - MBA
95	5	CSE	20CS7I01	Summer Internship (During 3 years)
96	5	CSE	20CS7S01	Advanced skill-oriented course - II
97	5	CSE	20CS8P01	Major Project Work, Seminar, Internship in industry
98	12	IT	20IT7E01	Mobile Computing
99	12	IT	20IT7E07	Software Testing Methodologies
100	12	IT	20IT7E10	Block Chain Technologies and Applications
101	12	IT	20ME7001	Optimization Techniques
102	12	IT	20EC7003	Bio Medical Engineering
103	12	IT	20SH7E01	Entrepreneurship Development
104	12	IT	20IT7S01	Ethereum
105	12	IT	20IT7I01	Summer Internship (During 3 Year)
106	12	IT	20IT8P01	Project Work / internship in Industry
107	44	CSD	20CD7E3X	Natural Language Processing
108	44	CSD	20CD7E3X	Cryptography and Network Security
109	44	CSD	20CD7E3X	Image and video processing
110	44	CSD	20CD7E3X	Information security
111	44	CSD	20CD7E3X	Block Chain Technologies
112	44	CSD	20CD7E4X	Artificial Intelligence
113	44	CSD	20CD7E4X	Cloud Computing
114	44	CSD	20CD7E4X	Computer Vision
115	44	CSD	20CD7E4X	Human Computer Interaction
116	44	CSD	20CD7E5X	Social Network Analysis
117	44	CSD	20CD7E5X	Recommender Systems
118	44	CSD	20CD7E5X	Data Visualization
119	44	CSD	20XX7O3X	Introduction to Internet of things
120	44	CSD	20XX7O4X	Enterprenuershiop development
121	44	CSD	20CD7E5X	Text Mining
122	44	CSD	20SH7T01	Management Science

123	44	CSD	20CD7PR01	Industrial/Research Internship 2
124	44	CSD	20CD7S01	Soft Skills
125	44	CSD	20CD8P01	Major Project Work, Seminar, Internship
126	43	CAI	20CI7E3X	Professional Elective-III 1.Reinforcement Learning 2.Soft Computing 3. Cryptography and Network Security 4. NOSQL Databases 5. Natural Language Processing
127	43	CAI	20CI7E4X	Professional Elective-IV 1. Robotic Process Automation 2. Cloud Computing 3. Big Data Analytics 4. Block Chain Technologies 5. Image & Video Analytics
128	43	CAI	20CI7E5X	Professional Elective-V 1. Social Network Analysis 2. Recommender Systems 3. Computer vision 4. Mining Massive Data Sets 5. Semantic Web
129	43	CAI	20XX704X	Open Elective - IV
130	43	CAI	20SH70XX	Management Science
131	43	CAI	20CI7S01	Skill Oriented Course -V
132	43	CAI	Minor	Reinforcement Learning\$ Minor courses through SWAYAM
133	43	CAI	20CI8P1	Project work - Phase II

