



**REGULATIONS 2019 AND REGULATIONS 2024**  
**FLEXIBLE CHOICE BASED CREDIT SYSTEM**  
**LIST OF OPEN ELECTIVES**

S.No	Offered by	Course Code R2024	Course Code R2019	Course Title	Prerequisite	Theory Credits	Practical Credits	Total Credits
1	Chemical	CH0503	19CH503	<a href="#">Energy Technology</a>	-	3	0	3
2	Chemical	CH0629	19CH629	<a href="#">Industrial Safety</a>	-	3	0	3
3	Chemical	NA	19CH505	<a href="#">Green Technology</a>	-	3	0	3
4	Chemical	NA	19CH511	<a href="#">Food Technology</a>	-	3	0	3
5	Chemical	NA	19CH516	<a href="#">Corrosion Technology</a>	-	3	0	3
6	Chemical	NA	19CH512	<a href="#">Drugs and Pharmaceutical Technology</a>	-	3	0	3
7	Mech	ME0563	19ME563	<a href="#">Automotive Engineering</a>	-	3	0	3
8	Mech	ME0529	19ME529	<a href="#">Process Planning and Cost Estimation</a>	-	2	1	3
9	Mech	ME0531	19ME531	<a href="#">Intellectual Property Rights</a>	-	2	1	3
10	Mech	ME0533	19ME533	<a href="#">3D Printing Processes</a>	-	3	1	4
11	Mech	ME0803	NA	<a href="#">CAD/CAM</a>	-	2	1	3
12	Mech	NA	19ME505	<a href="#">Computer Aided Design</a>	-	2	1	3
13	Mech	NA	19ME601	<a href="#">Mechatronics and Robotics</a>	-	2	1	3
14	Mech	NA	19ME602	<a href="#">Hydraulic Drives and Controls</a>	-	2	1	3
15	Mech	NA	19ME511	<a href="#">Automobile Engineering</a>	-	2	1	3
16	Mech	NA	19ME524	<a href="#">Sustainable and Green Manufacturing</a>	-	2	1	3
17	Civil	CE0510	19CE510	<a href="#">Integrated Water Resources Management</a>	-	3	0	3
18	Civil	CE0521	19CE521	<a href="#">Air Pollution Engineering</a>	-	3	0	3
19	Civil	NA	19CE525	<a href="#">Traffic Engineering</a>	-	3	0	3
20	Civil	CE0527	19CE527	<a href="#">Construction Engineering and Occupational Safety</a>	-	3	0	3
21	Civil	CE0528	19CE528	<a href="#">Contract Laws and Regulations</a>	-	3	0	3
22	Civil	CE0548	19CE548	<a href="#">Energy Efficient Buildings</a>	-	3	0	3
23	Civil	CE0538	19CE538	<a href="#">Climate Change Adaptation and Mitigation</a>	-	3	0	3
24	Civil	CE0540	19CE540	<a href="#">Environmental Health and Safety</a>	-	3	0	3

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25	Civil	CE0549	19CE549	<a href="#">Rainwater Harvesting</a>	-	3	0	3
26	Civil	CE0550	19CE550	<a href="#">Smart Cities and Urban Analytics</a>	-	3	0	3
27	Civil	CE0551	19CE551	<a href="#">Transport and Environment</a>	-	3	0	3
28	Civil	CE0552	19CE552	<a href="#">Environment, Policy and Legislations</a>	-	3	0	3
29	ECE	EC1601	19EC601	<a href="#">Electronic Packaging</a>	-	3	0	3
30	ECE	EC1602	19EC602	<a href="#">Introduction to Micro Electro Mechanical Systems</a>	-	3	0	3
31	ECE	EC1603	19EC603	<a href="#">Fuzzy Logic Systems and ANN</a>	-	3	0	3
32	ECE	EC1604	19EC604	<a href="#">Consumer Electronics</a>	-	3	0	3
33	ECE	EC1605	19EC605	<a href="#">Electronic System Design</a>	-	3	0	3
34	ECE	EC1606	19EC606	<a href="#">Drones for Agriculture</a>	-	3	0	3
35	BME	NA	19BM601	<a href="#">Fundamentals of Nutrition</a>	-	3	0	3
35	BME	NA	19BM602	<a href="#">Biomedical Waste Management</a>	-	3	0	3
35	BME	EC4603	19BM603	<a href="#">Health Care Technologies</a>	-	3	0	3
35	BME	EC4603	19BM603	<a href="#">Health Care Technologies</a>	-	3	0	3
35	BME	NA	19BM604	<a href="#">Prosthetic Engineering</a>	-	3	0	3
35	BME	EC4605	19BM605	<a href="#">Medical Devices</a>	-	3	0	3
35	BME	NA	19BM606	<a href="#">Biology for Engineers</a>	-	3	0	3
35	Med. Elec	NA	19MD501	<a href="#">Tele Health Technology</a>	-	3	0	3
35	Med. Elec	NA	19MD509	<a href="#">Bio MEMS</a>	-	3	0	3
35	Med. Elec	NA	19MD512	<a href="#">Medical Wearable Systems</a>	-	3	0	3
35	Med. Elec	NA	19MD601	<a href="#">Biomedical Sensors and Measurements</a>	-	3	0	3
35	Med. Elec	NA	19MD602	<a href="#">Biomedical Optics</a>	-	3	0	3
35	BME	EC4605	19BM605	<a href="#">Medical Devices</a>	-	3	0	3
35	BME	EC4603	19BM603	<a href="#">Health Care Technologies</a>	-	3	0	3
49	Physics	SH3602	19PH602	<a href="#">NanoPhotonics: Physics, Fabrication and Technologies</a>	-	3	0	3
50	Physics	SH3601	19PH601	<a href="#">Instrumentation and Applied Physics in Engineering</a>	-	3	0	3
51	English	SH1609	19EN609	<a href="#">Gender Sensitization</a>	-	2	0	2
52	Mathematics	SH2601	19MA601	<a href="#">Resource Management Techniques</a>	-	3	0	3
53	Mathematics	SH2602	19MA602	<a href="#">Statistics for Engineers</a>	-	3	0	3

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54	EIE	NA	19BY201	<a href="#">Introduction to Biology</a>	-	2	0	2
55	EIE	NA	19EI601	<a href="#">Electrical and Electronic Measurements</a>	-	3	0	3
56	EIE	NA	19EI602	<a href="#">Instrumentation and Control Systems</a>	-	3	0	3
57	EIE	NA	19EI508	<a href="#">SCADA Systems and Applications</a>	-	3	0	3
58	EIE	NA	19EI511	<a href="#">Telemetry and Tele Control</a>	-	3	0	3
59	EIE	NA	19EI504	<a href="#">Environmental Instrumentation</a>	-	3	0	3
60	Transdisciplinary	SH7601	19TD609	<a href="#">Abroad Studies Entry Preparation</a>	-	0	2	2
61	Transdisciplinary	SH5607	19TD607	<a href="#">Art of Film Making</a>	-	0	2	2
62	Transdisciplinary	SH5610	19EN604	<a href="#">Design Thinking</a>	-	2	0	2
63	Transdisciplinary	SH5621	19EN623	<a href="#">Dream, Draw and Create</a>	-	0	2	2
64	Transdisciplinary	NA	19EN611	<a href="#">French Advanced</a>	19EN610	0	2	2
65	Transdisciplinary	NA	19EN610	<a href="#">French Basic</a>	-	0	2	2
66	Transdisciplinary	SH5601	19TD601	<a href="#">French Language A1</a>	-	0	3	3
67	Transdisciplinary	SH5602	19TD602	<a href="#">French Language A2</a>	19TD601	0	3	3
68	Transdisciplinary	SH1609	19EN609	<a href="#">Gender Sensitization</a>	-	2	0	2
69	Transdisciplinary	NA	19EN613	<a href="#">German Advanced</a>	19EN612	0	2	2
70	Transdisciplinary	NA	19EN612	<a href="#">German Basic</a>	-	0	2	2
71	Transdisciplinary	SH5605	19TD605	<a href="#">German Language A1</a>	-	0	3	3
72	Transdisciplinary	SH5606	19TD606	<a href="#">German Language A2</a>	19TD605	0	3	3
73	Transdisciplinary	SH5611	19EN607	<a href="#">Heritage Studies</a>	-	0	2	2
74	Transdisciplinary	SH5609	19EN618	<a href="#">Indian Astronomy and Mathematics</a>	-	2	0	2
75	Transdisciplinary	SH5612	19EN603	<a href="#">Introduction to Design</a>	-	0	2	2
76	Transdisciplinary	SH5618	19EN619	<a href="#">Inventions and Discoveries</a>	-	2	0	2
77	Transdisciplinary	NA	19EN615	<a href="#">Japanese Advanced</a>	19EN614	0	2	2
78	Transdisciplinary	NA	19EN614	<a href="#">Japanese Basic</a>	-	0	2	2
79	Transdisciplinary	SH5622	19TD610	Japanese Language Proficiency Test N5	-	0	0	0
80	Transdisciplinary	SH5623	19TD611	Japanese Language Proficiency Test N4	-	0	0	0
81	Transdisciplinary	SH5617	19EN620	<a href="#">Mandarin</a>	-	0	2	2
82	Transdisciplinary	NA	19EN608	<a href="#">Mime Theatre Art</a>	-	0	2	2

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83	Transdisciplinary	SH5614	19EN605	<a href="#">Modern Trends in Physical Education and Sports Sciences</a>	-	0	2	2
84	Transdisciplinary	NA	19EN617	<a href="#">Product Design for Future</a>	-	0	2	2
85	Transdisciplinary	SH5608	19TD608	<a href="#">Prompt Engineering</a>	-	1	1	2
86	Transdisciplinary	SH5615	19EN606	<a href="#">Psychology for Professionals</a>	-	2	0	2
87	Transdisciplinary	SH5620	19EN622	<a href="#">Spanish Advanced</a>	19EN621	0	2	2
88	Transdisciplinary	SH5619	19EN621	<a href="#">Spanish Basic</a>	-	0	2	2
89	Transdisciplinary	SH5613	19EN624	<a href="#">Theatre Art</a>	-	0	2	2
90	Transdisciplinary	SH5616	19EN616	<a href="#">Yoga and Meditation</a>	-	0	1	1
91	EEE	EC2601	19EE601	<a href="#">Embedded Based Product Design and Development</a>	-	3	0	3
92	EEE	EC2602	19EE602	<a href="#">Electrical Safety</a>	-	3	0	3
93	EEE	EC2603	19EE603	<a href="#">Renewable Energy Sources</a>	-	3	0	3
94	EEE	EC2604	19EE604	<a href="#">Fundamentals of Electric Power Utilization</a>	-	3	0	3
95	EEE	EC2605	19EE605	<a href="#">Industrial Automation and Robotics</a>	-	3	0	3
96	EEE	NA	19EE606	<a href="#">Solar Photovoltaic Energy Systems</a>	-	2	1	3
97	Chemistry	SH4601	19CY601	<a href="#">Food Nutrition and Health Technology</a>	-	2	0	2
98	SCOFT	CS1418	19CS418	<a href="#">Cyber Law and Compliance</a>	-	3	0	3
99	SCOFT	CS3541	19AI541	<a href="#">Cloud Computing</a>	19CS406	3	1	4
100	SCOFT	CS4503	19AM503	Data Modeling	-	3	0	3
101	SCOFT	CS1523	19CS523	<a href="#">Information Retrieval</a>	19AI410/ 19CS501/19 CS413	3	0	3
102	SCOFT	CS3521	19AI521	<a href="#">Expert Systems</a>	-	3	0	3
103	Agri	AG0854	NA	<a href="#">Principles of Agricultural Engineering</a>	-	3	0	3
104	Agri	AG0855	NA	<a href="#">Urban Agriculture</a>	-	3	0	3