



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	Energy Technology	-	3	0	3
2	Chemical	CH0629	19CH629	Industrial Safety	-	3	0	3
3	Chemical	NA	19CH505	Green Technology	-	3	0	3
4	Chemical	NA	19CH511	Food Technology	-	3	0	3
5	Chemical	NA	19CH516	Corrosion Technology	-	3	0	3
6	Chemical	NA	19CH512	Drugs and Pharmaceutical Technology	-	3	0	3
7	Mech	ME0563	19ME563	Automotive Engineering	-	3	0	3
8	Mech	ME0529	19ME529	Process Planning and Cost Estimation	-	2	1	3
9	Mech	ME0531	19ME531	Intellectual Property Rights	-	2	1	3
10	Mech	ME0533	19ME533	3D Printing Processes	-	3	1	4
11	Mech	ME0803	NA	CAD/CAM	-	2	1	3
12	Mech	NA	19ME505	Computer Aided Design	-	2	1	3
13	Mech	NA	19ME601	Mechatronics and Robotics	-	2	1	3
14	Mech	NA	19ME602	Hydraulic Drives and Controls	-	2	1	3
15	Mech	NA	19ME511	Automobile Engineering	-	2	1	3
16	Mech	NA	19ME524	Sustainable and Green Manufacturing	-	2	1	3
17	Civil	CE0510	19CE510	Integrated Water Resources Management	-	3	0	3
18	Civil	CE0521	19CE521	Air Pollution Engineering	-	3	0	3
19	Civil	NA	19CE525	Traffic Engineering	-	3	0	3
20	Civil	CE0527	19CE527	Construction Engineering and Occupational Safety	-	3	0	3
21	Civil	CE0528	19CE528	Contract Laws and Regulations	-	3	0	3
22	Civil	CE0548	19CE548	Energy Efficient Buildings	-	3	0	3
23	Civil	CE0538	19CE538	Climate Change Adaptation and Mitigation	-	3	0	3
24	Civil	CE0540	19CE540	Environmental Health and Safety	-	3	0	3

S.No	Offered by	Course Code R2024	Course Code R2019	Course Title	Prerequisite	Theory Credits	Practical Credits	Total Credits
25	Civil	CE0549	19CE549	Rainwater Harvesting	-	3	0	3
26	Civil	CE0550	19CE550	Smart Cities and Urban Analytics	-	3	0	3
27	Civil	CE0551	19CE551	Transport and Environment	-	3	0	3
28	Civil	CE0552	19CE552	Environment, Policy and Legislations	-	3	0	3
29	ECE	EC1601	19EC601	Electronic Packaging	-	3	0	3
30	ECE	EC1602	19EC602	Introduction to Micro Electro Mechanical Systems	-	3	0	3
31	ECE	EC1603	19EC603	Fuzzy Logic Systems and ANN	-	3	0	3
32	ECE	EC1604	19EC604	Consumer Electronics	-	3	0	3
33	ECE	EC1605	19EC605	Electronic System Design	-	3	0	3
34	ECE	EC1606	19EC606	Drones for Agriculture	-	3	0	3
35	BME	NA	19BM601	Fundamentals of Nutrition	-	3	0	3
35	BME	NA	19BM602	Biomedical Waste Management	-	3	0	3
35	BME	EC4603	19BM603	Health Care Technologies	-	3	0	3
35	BME	EC4603	19BM603	Health Care Technologies	-	3	0	3
35	BME	NA	19BM604	Prosthetic Engineering	-	3	0	3
35	BME	EC4605	19BM605	Medical Devices	-	3	0	3
35	BME	NA	19BM606	Biology for Engineers	-	3	0	3
35	Med. Elec	NA	19MD501	Tele Health Technology	-	3	0	3
35	Med. Elec	NA	19MD509	Bio MEMS	-	3	0	3
35	Med. Elec	NA	19MD512	Medical Wearable Systems	-	3	0	3
35	Med. Elec	NA	19MD601	Biomedical Sensors and Measurements	-	3	0	3
35	Med. Elec	NA	19MD602	Biomedical Optics	-	3	0	3
35	BME	EC4605	19BM605	Medical Devices	-	3	0	3
35	BME	EC4603	19BM603	Health Care Technologies	-	3	0	3
49	Physics	SH3602	19PH602	NanoPhotonics: Physics, Fabrication and Technologies	-	3	0	3
50	Physics	SH3601	19PH601	Instrumentation and Applied Physics in Engineering	-	3	0	3
51	English	SH1609	19EN609	Gender Sensitization	-	2	0	2
52	Mathematics	SH2601	19MA601	Resource Management Techniques	-	3	0	3
53	Mathematics	SH2602	19MA602	Statistics for Engineers	-	3	0	3

S.No	Offered by	Course Code R2024	Course Code R2019	Course Title	Prerequisite	Theory Credits	Practical Credits	Total Credits
54	EIE	NA	19BY201	Introduction to Biology	-	2	0	2
55	EIE	NA	19EI601	Electrical and Electronic Measurements	-	3	0	3
56	EIE	NA	19EI602	Instrumentation and Control Systems	-	3	0	3
57	EIE	NA	19EI508	SCADA Systems and Applications	-	3	0	3
58	EIE	NA	19EI511	Telemetry and Tele Control	-	3	0	3
59	EIE	NA	19EI504	Environmental Instrumentation	-	3	0	3
60	Transdisciplinary	SH7601	19TD609	Abroad Studies Entry Preparation	-	0	2	2
61	Transdisciplinary	SH5607	19TD607	Art of Film Making	-	0	2	2
62	Transdisciplinary	SH5610	19EN604	Design Thinking	-	2	0	2
63	Transdisciplinary	SH5621	19EN623	Dream, Draw and Create	-	0	2	2
64	Transdisciplinary	NA	19EN611	French Advanced	19EN610	0	2	2
65	Transdisciplinary	NA	19EN610	French Basic	-	0	2	2
66	Transdisciplinary	SH5601	19TD601	French Language A1	-	0	3	3
67	Transdisciplinary	SH5602	19TD602	French Language A2	19TD601	0	3	3
68	Transdisciplinary	SH1609	19EN609	Gender Sensitization	-	2	0	2
69	Transdisciplinary	NA	19EN613	German Advanced	19EN612	0	2	2
70	Transdisciplinary	NA	19EN612	German Basic	-	0	2	2
71	Transdisciplinary	SH5605	19TD605	German Language A1	-	0	3	3
72	Transdisciplinary	SH5606	19TD606	German Language A2	19TD605	0	3	3
73	Transdisciplinary	SH5611	19EN607	Heritage Studies	-	0	2	2
74	Transdisciplinary	SH5609	19EN618	Indian Astronomy and Mathematics	-	2	0	2
75	Transdisciplinary	SH5612	19EN603	Introduction to Design	-	0	2	2
76	Transdisciplinary	SH5618	19EN619	Inventions and Discoveries	-	2	0	2
77	Transdisciplinary	NA	19EN615	Japanese Advanced	19EN614	0	2	2
78	Transdisciplinary	NA	19EN614	Japanese Basic	-	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	Mandarin	-	0	2	2
82	Transdisciplinary	NA	19EN608	Mime Theatre Art	-	0	2	2

S.No	Offered by	Course Code R2024	Course Code R2019	Course Title	Prerequisite	Theory Credits	Practical Credits	Total Credits
83	Transdisciplinary	SH5614	19EN605	Modern Trends in Physical Education and Sports Sciences	-	0	2	2
84	Transdisciplinary	NA	19EN617	Product Design for Future	-	0	2	2
85	Transdisciplinary	SH5608	19TD608	Prompt Engineering	-	1	1	2
86	Transdisciplinary	SH5615	19EN606	Psychology for Professionals	-	2	0	2
87	Transdisciplinary	SH5620	19EN622	Spanish Advanced	19EN621	0	2	2
88	Transdisciplinary	SH5619	19EN621	Spanish Basic	-	0	2	2
89	Transdisciplinary	SH5613	19EN624	Theatre Art	-	0	2	2
90	Transdisciplinary	SH5616	19EN616	Yoga and Meditation	-	0	1	1
91	EEE	EC2601	19EE601	Embedded Based Product Design and Development	-	3	0	3
92	EEE	EC2602	19EE602	Electrical Safety	-	3	0	3
93	EEE	EC2603	19EE603	Renewable Energy Sources	-	3	0	3
94	EEE	EC2604	19EE604	Fundamentals of Electric Power Utilization	-	3	0	3
95	EEE	EC2605	19EE605	Industrial Automation and Robotics	-	3	0	3
96	EEE	NA	19EE606	Solar Photovoltaic Energy Systems	-	2	1	3
97	Chemistry	SH4601	19CY601	Food Nutrition and Health Technology	-	2	0	2
98	SCOFT	CS1418	19CS418	Cyber Law and Compliance	-	3	0	3
99	SCOFT	CS3541	19AI541	Cloud Computing	19CS406	3	1	4
100	SCOFT	CS4503	19AM503	Data Modeling	-	3	0	3
101	SCOFT	CS1523	19CS523	Information Retrieval	19AI410/ 19CS501/19 CS413	3	0	3
102	SCOFT	CS3521	19AI521	Expert Systems	-	3	0	3
103	Agri	AG0854	NA	Principles of Agricultural Engineering	-	3	0	3
104	Agri	AG0855	NA	Urban Agriculture	-	3	0	3