

Regulations 2019

FLEXIBLE CHOICE BASED CREDIT SYSTEM

LIST OF OPEN ELECTIVES

S.No	Offered by	Course Code R2019	Course Title	Prerequisite	Theory Credits	Prac Credits	Total Credits
1	Chemical	19CH503	Energy Technology	-	3	0	3
2	Chemical	19CH629	Industrial Safety	-	3	0	3
3	Chemical	19CH505	Green Technology	-	3	0	3
4	Chemical	19CH511	Food Technology	-	3	0	3
5	Chemical	19CH516	Corrosion Technology	-	3	0	3
6	Chemical	19CH512	Drugs and Pharmaceutical Technology	-	3	0	3
7	Mech	19ME563	Automotive Engineering	-	3	0	3
8	Mech	19ME529	Process Planning and Cost Estimation	-	2	1	3
9	Mech	19ME531	Intellectual Property Rights	-	2	1	3
10	Mech	19ME533	3D Printing Processes	-	3	1	4
11	Mech	NA	CAD/CAM	-	2	1	3
12	Mech	19ME505	Computer Aided Design	-	2	1	3
13	Mech	19ME601	Mechatronics and Robotics	-	2	1	3
14	Mech	19ME602	Hydraulic Drives and Controls	-	2	1	3
15	Mech	19ME511	Automobile Engineering	-	2	1	3
16	Mech	19ME524	Sustainable and Green Manufacturing	-	2	1	3
17	Civil	19CE510	Integrated Water Resources Managem	-	3	0	3

18	Civil	19CE521	Air Pollution Engineering	-	3	0	3
19	Civil	19CE525	Traffic Engineering	-	3	0	3
20	Civil	19CE527	Construction Engineering and Occupat	-	3	0	3
21	Civil	19CE528	Contract Laws and Regulations	-	3	0	3
22	Civil	19CE548	Energy Efficient Buildings	-	3	0	3
23	Civil	19CE538	Climate Change Adaptation and Mitigat	-	3	0	3
24	Civil	19CE540	Environmental Health and Safety	-	3	0	3
25	Civil	19CE549	Rainwater Harvesting	-	3	0	3
26	Civil	19CE550	Smart Cities and Urban Analytics	-	3	0	3
27	Civil	19CE551	Transport and Environment	-	3	0	3
28	Civil	19CE552	Environment, Policy and Legislations	-	3	0	3
29	ECE	19EC601	Electronic Packaging	-	3	0	3
30	ECE	19EC602	Introduction to Micro Electro Mechanica	-	3	0	3
31	ECE	19EC603	Fuzzy Logic Systems and ANN	-	3	0	3
32	ECE	19EC604	Consumer Electronics	-	3	0	3
33	ECE	19EC605	Electronic System Design	-	3	0	3
34	ECE	19EC606	Drones for Agriculture	-	3	0	3
35	BME	19BM601	Fundamentals of Nutrition	-	3	0	3
35	BME	19BM602	Biomedical Waste Management	-	3	0	3
35	BME	19BM603	Health Care Technologies	-	3	0	3
35	BME	19BM603	Health Care Technologies	-	3	0	3
35	BME	19BM604	Prosthetic Engineering	-	3	0	3
35	BME	19BM605	Medical Devices	-	3	0	3

35	BME	19BM606	Biology for Engineers	-	3	0	3
35	Med. Elec	19MD501	Tele Health Technology	-	3	0	3
35	Med. Elec	19MD509	Bio MEMS	-	3	0	3
35	Med. Elec	19MD512	Medical Wearable Systems	-	3	0	3
35	Med. Elec	19MD601	Biomedical Sensors and Measurement	-	3	0	3
35	Med. Elec	19MD602	Biomedical Optics	-	3	0	3
35	BME	19BM605	Medical Devices	-	3	0	3
35	BME	19BM603	Health Care Technologies	-	3	0	3
49	Physics	19PH602	NanoPhotonics: Physics, Fabrication a	-	3	0	3
50	Physics	19PH601	Instrumentation and Applied Physics in	-	3	0	3
51	English	19EN609	Gender Sensitization	-	2	0	2
52	Mathematics	19MA601	Resource Management Techniques	-	3	0	3
53	Mathematics	19MA602	Statistics for Engineers	-	3	0	3
54	EIE	19BY201	Introduction to Biology	-	2	0	2
55	EIE	19EI601	Electrical and Electronic Measurements	-	3	0	3
56	EIE	19EI602	Instrumentation and Control Systems	-	3	0	3
57	EIE	19EI508	SCADA Systems and Applications	-	3	0	3
58	EIE	19EI511	Telemetry and Tele Control	-	3	0	3
59	EIE	19EI504	Environmental Instrumentation	-	3	0	3
60	Transdisciplinary	19TD609	Abroad Studies Entry Preparation	-	0	2	2
61	Transdisciplinary	19TD607	Art of Film Making	-	0	2	2
62	Transdisciplinary	19EN604	Design Thinking	-	2	0	2
63	Transdisciplinary	19EN623	Dream, Draw and Create	-	0	2	2

64	Transdisciplinary	19EN611	French Advanced	19EN610	0	2	2
65	Transdisciplinary	19EN610	French Basic	-	0	2	2
66	Transdisciplinary	19TD601	French Language A1	-	0	3	3
67	Transdisciplinary	19TD602	French Language A2	19TD601	0	3	3
68	Transdisciplinary	19EN609	Gender Sensitization	-	2	0	2
69	Transdisciplinary	19EN613	German Advanced	19EN612	0	2	2
70	Transdisciplinary	19EN612	German Basic	-	0	2	2
71	Transdisciplinary	19TD605	German Language A1	-	0	3	3
72	Transdisciplinary	19TD606	German Language A2	19TD605	0	3	3
73	Transdisciplinary	19EN607	Heritage Studies	-	0	2	2
74	Transdisciplinary	19EN618	Indian Astronomy and Mathematics	-	2	0	2
75	Transdisciplinary	19EN603	Introduction to Design	-	0	2	2
76	Transdisciplinary	19EN619	Inventions and Discoveries	-	2	0	2
77	Transdisciplinary	19EN615	Japanese Advanced	19EN614	0	2	2
78	Transdisciplinary	19EN614	Japanese Basic	-	0	2	2
79	Transdisciplinary	19TD610	Japanese Language Proficiency Test N	-	0	0	0
80	Transdisciplinary	19TD611	Japanese Language Proficiency Test N	-	0	0	0
81	Transdisciplinary	19EN620	Mandarin	-	0	2	2
82	Transdisciplinary	19EN608	Mime Theatre Art	-	0	2	2
83	Transdisciplinary	19EN605	Modern Trends in Physical Education a	-	0	2	2
84	Transdisciplinary	19EN617	Product Design for Future	-	0	2	2
85	Transdisciplinary	19TD608	Prompt Engineering	-	1	1	2
86	Transdisciplinary	19EN606	Psychology for Professionals	-	2	0	2

87	Transdisciplinary	19EN622	Spanish Advanced	19EN621	0	2	2
88	Transdisciplinary	19EN621	Spanish Basic	-	0	2	2
89	Transdisciplinary	19EN624	Theatre Art	-	0	2	2
90	Transdisciplinary	19EN616	Yoga and Meditation	-	0	1	1
91	EEE	19EE601	Embedded Based Product Design and	-	3	0	3
92	EEE	19EE602	Electrical Safety	-	3	0	3
93	EEE	19EE603	Renewable Energy Sources	-	3	0	3
94	EEE	19EE604	Fundamentals of Electric Power Utilizat	-	3	0	3
95	EEE	19EE605	Industrial Automation and Robotics	-	3	0	3
96	EEE	19EE606	Solar Photovoltaic Energy Systems	-	2	1	3
97	Chemistry	19CY601	Food Nutrition and Health Technology	-	2	0	2
98	SCOFT	19CS418	Cyber Law and Compliance	-	3	0	3
99	SCOFT	19AI541	Cloud Computing	19CS406	3	1	4
100	SCOFT	19AM503	Data Modeling	-	3	0	3
101	SCOFT	19CS523	Information Retrieval	19AI410/ 19CS501/19CS413	3	0	3
102	SCOFT	19AI521	Expert Systems	-	3	0	3
103	Agri	NA	Principles of Agricultural Engineering	-	3	0	3
104	Agri	NA	Urban Agriculture	-	3	0	3