	CREDIT INFO	
S.no	Catagory	Credits
1	Foundation Core - Basic Sciences and Mathematics	24
2	Foundation Core - Basic Engineering Sciences	16
3	Foundation Core - Humanities, Social Sciences and Management	15
4	Discipline-linked Engineering Sciences	12
5	Discipline Core	44
6	Projects and Internship	9
7	Open Elective	9
8	Non-graded Core Requirement	11
9	Bridge Course	2
10	Specialization Elective	21
	Total Credits	150

	Foundation Core - Basic Sciences and Mathematics											
sl.no	Course Code	Course Title	Course Type	Ver sio n	L	Т	Р	J	Credits			
1	BCHY101L	Engineering Chemistry	Theory Only	1.0	3	0	0	0	3.0			
2	BCHY101P	Engineering Chemistry Lab	Lab Only	1.0	0	0	2	0	1.0			
3	BMAT101L	Calculus	Theory Only	1.0	3	0	0	0	3.0			
4	BMAT101P	Calculus Lab	Lab Only	1.0	0	0	2	0	1.0			
5	BMAT102L	Differential Equations and Transforms	Theory Only	1.0	3	1	0	0	4.0			
6	BMAT201L	Complex Variables and Linear Algebra	Theory Only	1.0	3	1	0	0	4.0			
7	BMAT202L	Probability and Statistics	Theory Only	1.0	3	0	0	0	3.0			
8	BMAT202P	Probability and Statistics Lab	Lab Only	1.0	0	0	2	0	1.0			
9	BPHY101L	Engineering Physics	Theory Only	1.0	3	0	0	0	3.0			
10	BPHY101P	Engineering Physics Lab	Lab Only	1.0	0	0	2	0	1.0			

	Foundation Core - Basic Engineering Sciences											
sl.no	Course Code	Course Title	Course Type	Ver sio n	L	Т	Р	J	Credits			
1	BCSE101E	Computer Programming: Python	Embedded Theory and Lab	1.0	1	0	4	0	3.0			
2	BCSE102L	Structured and Object-Oriented Programming	Theory Only	1.0	2	0	0	0	2.0			
3	BCSE102P	Structured and Object-Oriented Programming Lab	Lab Only	1.0	0	0	4	0	2.0			
4	BCSE103E	Computer Programming: Java	Embedded Theory and Lab	1.0	1	0	4	0	3.0			
5	BECE101L	Basic Electronics	Theory Only	1.0	2	0	0	0	2.0			
6	BECE101P	Basic Electronics Lab	Lab Only	1.0	0	0	2	0	1.0			
7	BEEE101L	Basic Electrical Engineering	Theory Only	1.0	2	0	0	0	2.0			
8	BEEE101P	Basic Electrical Engineering Lab	Lab Only	1.0	0	0	2	0	1.0			

Report On: 29-10-2024 07:33:33 PMPage 1 of 19

	Foundation Core - Humanities, Social Sciences and Management											
sl.no	Course Code	Course Title	Course Type	Ver sio	L	Т	Р	J	Credits			
				n								
1	BENG101L	Technical English Communication	Theory Only	1.0	2	0	0	0	2.0			
2	BENG101P	Technical English Communication Lab	Lab Only	1.0	0	0	2	0	1.0			
3	BENG102P	Technical Report Writing	Lab Only	1.0	0	0	2	0	1.0			
4	BFLE200L	Foreign Language	Basket	1.0	0	0	0	0	2.0			
5	BHSM200L	HSM Elective	Basket	1.0	0	0	0	0	3.0			
6	BSTS101P	Quantitative Skills Practice I	Lab Only	1.0	0	0	3	0	1.5			
7	BSTS102P	Quantitative Skills Practice II	Soft Skill	1.0	3	0	0	0	1.5			
8	BSTS201P	Qualitative Skills Practice I	Soft Skill	1.0	3	0	0	0	1.5			
9	BSTS202P	Qualitative Skills Practice II	Lab Only	1.0	0	0	3	0	1.5			

	Discipline-linked Engineering Sciences											
sl.no	Course Code	Course Title	Course Type	Ver sio n	L	т	Р	J	Credits			
1	BECE102L	Digital Systems Design	Theory Only	1.0	3	0	0	0	3.0			
2	BECE102P	Digital Systems Design Lab	Lab Only	1.0	0	0	2	0	1.0			
3	BECE204L	Microprocessors and Microcontrollers	Theory Only	1.0	3	0	0	0	3.0			
4	BECE204P	Microprocessors and Microcontrollers Lab	Lab Only	1.0	0	0	2	0	1.0			
5	BMAT205L	Discrete Mathematics and Graph Theory	Theory Only	1.0	3	1	0	0	4.0			

		Discipline Co	ore						
sl.no	Course Code	Course Title	Course Type	Ver sio n	L	Т	Р	J	Credits
1	BCSE202L	Data Structures and Algorithms	Theory Only	1.0	3	0	0	0	3.0
2	BCSE202P	Data Structures and Algorithms Lab	Lab Only	1.0	0	0	2	0	1.0
3	BCSE204L	Design and Analysis of Algorithms	Theory Only	1.0	3	0	0	0	3.0
4	BCSE204P	Design and Analysis of Algorithms Lab	Lab Only	1.0	0	0	2	0	1.0
5	BCSE205L	Computer Architecture and Organization	Theory Only	1.0	3	0	0	0	3.0
6	BCSE301L	Software Engineering	Theory Only	1.0	3	0	0	0	3.0
7	BCSE301P	Software Engineering Lab	Lab Only	1.0	0	0	2	0	1.0
8	BCSE302L	Database Systems	Theory Only	1.0	3	0	0	0	3.0
9	BCSE302P	Database Systems Lab	Lab Only	1.0	0	0	2	0	1.0
10	BCSE303L	Operating Systems	Theory Only	1.0	3	0	0	0	3.0
11	BCSE303P	Operating Systems Lab	Lab Only	1.0	0	0	2	0	1.0
12	BCSE304L	Theory of Computation	Theory Only	1.0	3	0	0	0	3.0
13	BCSE305L	Embedded Systems	Theory Only	1.0	3	0	0	0	3.0
14	BCSE306L	Artificial Intelligence	Theory Only	1.0	3	0	0	0	3.0
15	BCSE307L	Compiler Design	Theory Only	1.0	3	0	0	0	3.0
16	BCSE307P	Compiler Design Lab	Lab Only	1.0	0	0	2	0	1.0

Discipline Core												
17	BCSE308L	Computer Networks	Theory Only	11.0	3	0	0	0	3.0			
18	BCSE308P	Computer Networks Lab	Lab Only	1.0	0	0	2	0	1.0			
19	BCSE309L	Cryptography and Network Security	Theory Only	1.0	3	0	0	0	3.0			
20	BCSE309P	Cryptography and Network Security Lab	Lab Only	1.0	0	0	2	0	1.0			

	Projects and Internship											
sl.no	Course Code	Course Title	Course Type	Ver	L	т	Р	J	Credits			
				sio								
				n								
1	BCSE399J	Summer Industrial Internship	Project	1.0	0	0	0	0	1.0			
2	BCSE497J	Project-I	Project	1.0	0	0	0	0	3.0			
3	BCSE498J	Project-II / Internship	Project	1.0	0	0	0	0	5.0			
4	BCSE499J	One Semester Internship	Project	1.0	0	0	0	0	14.0			

		Open Elective	e						
sl.no	Course Code	Course Title	Course Type	Ver sio n	L	Т	Р	J	Credits
1	BCSE391J	Technical Answers to Real Problems Project	Project	1.0	0	0	0	0	3.0
2	BCSE392J	Design Project	Project	1.0	0	0	0	0	3.0
3	BCSE393J	Laboratory Project	Project	1.0	0	0	0	0	3.0
4	BCSE394J	Product Development Project	Project	1.0	0	0	0	0	3.0
5	BCSE395J	Computer Project	Project	1.0	0	0	0	0	3.0
6	BCSE396J	Reading Course	Project	1.0	0	0	0	0	3.0
7	BCSE397J	Special Project	Project	1.0	0	0	0	0	3.0
8	BCSE398J	Simulation Project	Project	1.0	0	0	0	0	3.0
9	BECE201L	Electronic Materials and devices	Theory Only	1.0	3	0	0	0	3.0
10	BECE351E	Internet of Things	Embedded Theory and Lab	1.0	1	0	2	0	2.0
11	BECE352E	IoT Domain Analyst	Embedded Theory and Lab	1.0	1	0	2	0	2.0
12	BEEE201L	Electronic Materials	Theory Only	1.0	3	0	0	0	3.0
13	BFST213E	Garment Designing and Manufacturing	Embedded Theory and Lab	1.0	2	0	2	0	3.0
14	BHUM201L	Mass Communication	Theory Only	1.0	3	0	0	0	3.0
15	BHUM202L	Rural Development	Theory Only	1.0	3	0	0	0	3.0
16	BHUM203L	Introduction to Psychology	Theory Only	1.0	3	0	0	0	3.0
17	BHUM204L	Industrial Psychology	Theory Only	1.0	3	0	0	0	3.0
18	BHUM205L	Development Economics	Theory Only	1.0	3	0	0	0	3.0
19	BHUM206L	International Economics	Theory Only	1.0	3	0	0	0	3.0
20	BHUM207L	Engineering Economics	Theory Only	1.0	3	0	0	0	3.0
21	BHUM208L	Economics of Strategy	Theory Only	1.0	3	0	0	0	3.0
22	BHUM209L	Game Theory	Theory Only	1.0	3	0	0	0	3.0

Open Elective											
23	BHUM210E	Econometrics	Embedded Theory and Lab	1.0	2	0	2	0	3.0		
24	BHUM211L	Behavioral Economics	Theory Only	1.0	3	0	0	0	3.0		
25	BHUM212L	Mathematics for Economic Analysis	Theory Only	1.0	3	0	0	0	3.0		
26	BHUM213L	Corporate Social Responsibility	Theory Only	1.0	3	0	0	0	3.0		
27	BHUM214L	Political Science	Theory Only	1.0	3	0	0	0	3.0		
28	BHUM215L	International Relations	Theory Only	1.0	3	0	0	0	3.0		
29	BHUM216L	Indian Culture and Heritage	Theory Only	1.0	3	0	0	0	3.0		
30	BHUM217L	Contemporary India	Theory Only	1.0	3	0	0	0	3.0		
31	BHUM218L	Financial Management	Theory Only	1.0	3	0	0	0	3.0		
32	BHUM219L	Principles of Accounting	Theory Only	1.0	3	0	0	0	3.0		
33	BHUM220L	Financial Markets and Institutions	Theory Only	1.0	3	0	0	0	3.0		
34	BHUM221L	Economics of Money, Banking and Financial Markets	Theory Only	1.0	3	0	0	0	3.0		
35	BHUM222L	Security Analysis and Portfolio Management	Theory Only	1.0	3	0	0	0	3.0		
36	BHUM223L	Options, Futures and other Derivatives	Theory Only	1.0	3	0	0	0	3.0		
37	BHUM224L	Fixed Income Securities	Theory Only	1.0	3	0	0	0	3.0		
38	BHUM225L	Personal Finance	Theory Only	1.0	3	0	0	0	3.0		
39	BHUM226L	Corporate Finance	Theory Only	1.0	3	0	0	0	3.0		
40	BHUM227L	Financial Statement Analysis	Theory Only	1.0	3	0	0	0	3.0		
41	BHUM228L	Cost and Management Accounting	Theory Only	1.0	3	0	0	0	3.0		
42	BHUM229L	Mind, Embodiment, and Technology	Theory Only	1.0	3	0	0	0	3.0		
43	BHUM230L	Health Humanities in Biotechnological Era	Theory Only	1.0	3	0	0	0	3.0		
44	BHUM231L	Reproductive choices for a Sustainable Society	Theory Only	1.0	3	0	0	0	3.0		
45	BHUM232L	Introduction to Sustainable Aging	Theory Only	1.0	3	0	0	0	3.0		
46	BHUM233L	Environmental Psychology	Theory Only	1.0	3	0	0	0	3.0		
47	BHUM234L	Indian Psychology	Theory Only	1.0	3	0	0	0	3.0		
48	BHUM235E	Psychology of Wellness	Embedded Theory and Lab	1.0	2	0	2	0	3.0		
49	BMEE102P	Engineering Design Visualisation Lab	Lab Only	1.0	0	0	4	0	2.0		
50	BMEE201L	Engineering Mechanics	Theory Only	1.0	2	1	0	0	3.0		
51	BMEE411L	Society 5.0	Theory Only	1.0	3	0	0	0	3.0		
52	BSTS301P	Advanced Competitive Coding – I	Soft Skill	1.0	3	0	0	0	1.5		
53	BSTS302P	Advanced Competitive Coding - II	Soft Skill	1.0	3	0	0	0	1.5		
54	CFOC101M	Advanced Green Manufacturing Systems	Online Course	1.0	0	0	0	0	3.0		
55	CFOC102M	Introduction to Cognitive Psychology	Online Course	1.0	0	0	0	0	3.0		
56	CFOC103M	Introduction to Political Theory	Online Course	1.0	0	0	0	0	3.0		
57	CFOC104M	Six Sigma	Online Course	1.0	0	0	0	0	3.0		
58	CFOC105M	Emotional Intelligence	Online Course	1.0	0	0	0	0	2.0		
59	CFOC106M	Manufacturing Strategy	Online Course	1.0	0	0	0	0	2.0		
60	CFOC107M	Supply Chain Analytics	Online Course	1.0	0	0	0	0	2.0		
61	CFOC108M	Systems Engineering: Theory and Practice	Online Course	1.0	0	0	0	0	2.0		
62	CFOC109M	Design Thinking - A Primer	Online Course	1.0	0	0	0	0	1.0		
63	CFOC110M	MCDM Techniques Using R and MARLAB	Online Course	1.0	0	0	0	0	1.0		
64	CFOC111M	Perspectives on Neurolinguistic	Online Course	1.0	0	0	0	0	1.0		
Report On	: 29-10-2024 07:33	:34 PM			•			Þage ∠	of 19		

Open Elective												
65	CFOC112M	Sociology of Science	Online Course	1.0	0	0	0	0	1.0			
66	CFOC113M	Contemporary Themes in India's Economic Development and Economic Survey	Online Course	1.0	0	0	0	0	3.0			
67	CFOC114M	Problem Solving through Programming in C	Online Course	1.0	0	0	0	0	3.0			
68	CFOC115M	Design and Analysis of Algorithms	Online Course	1.0	0	0	0	0	2.0			
69	CFOC116M	Computer Vision	Online Course	1.0	0	0	0	0	3.0			
70	CFOC117M	Spatial Informatics	Online Course	1.0	0	0	0	0	2.0			
71	CFOC118M	Practical Machine Learning with Tensorflow	Online Course	1.0	0	0	0	0	2.0			
72	CFOC119M	Training of Trainers	Online Course	1.0	0	0	0	0	3.0			
73	CFOC120M	Knowledge Management	Online Course	1.0	0	0	0	0	2.0			
74	CFOC121M	Leadership	Online Course	1.0	0	0	0	0	1.0			
75	CFOC122M	Educational Leadership	Online Course	1.0	0	0	0	0	2.0			
76	CFOC123M	Cost Accounting	Online Course	1.0	0	0	0	0	1.0			
77	CFOC124M	Practitioners Course In Descriptive, Predictive and Prescriptive Analytics	Online Course	1.0	0	0	0	0	2.0			
78	CFOC125M	Decision Making Under Uncertainty	Online Course	1.0	0	0	0	0	1.0			
79	CFOC126M	Data Analysis and Decision Making - III	Online Course	1.0	0	0	0	0	3.0			
80	CFOC127M	Business Analytics and Data Mining Modeling Using R Part II	Online Course	1.0	0	0	0	0	1.0			
81	CFOC128M	Business Analytics and Text Mining Modeling Using Python	Online Course	1.0	0	0	0	0	2.0			
82	CFOC129M	Economics of Health and Health Care	Online Course	1.0	0	0	0	0	2.0			
83	CFOC130M	Human Resource Development	Online Course	1.0	0	0	0	0	3.0			
84	CFOC131M	Performance and Reward Management	Online Course	1.0	0	0	0	0	3.0			
85	CFOC132M	Corporate Social Responsibility	Online Course	1.0	0	0	0	0	2.0			
86	CFOC133M	E-Business	Online Course	1.0	0	0	О	0	3.0			
87	CFOC134M	Innovation, Business Models and Entrepreneurship	Online Course	1.0	0	0	О	0	2.0			
88	CFOC135M	The Ethical Corporation	Online Course	1.0	0	0	0	0	2.0			
89	CFOC136M	Toyota Production System	Online Course	1.0	0	0	0	0	2.0			
90	CFOC137M	Intellectual Property Rights and Competition Law	Online Course	1.0	0	0	0	0	2.0			
91	CFOC138M	Patent Search for Engineers and Lawyers	Online Course	1.0	0	0	О	0	2.0			
92	CFOC139M	Role of Craft and Technology in Interior - Architecture	Online Course	1.0	0	0	0	0	2.0			
93	CFOC140M	Glass In Buildings : Design And Applications	Online Course	1.0	0	0	0	0	3.0			
94	CFOC141M	Visual Perception and Art: A Survey Across the Cultures	Online Course	1.0	0	0	0	0	1.0			
95	CFOC142M	Mapping Signal Processing Algorithms to Architectures	Online Course	1.0	0	0	0	0	3.0			
96	CFOC143M	Introduction to Computer Vision	Online Course	1.0	0	0	0	0	3.0			
97	CFOC144M	Op-Amp Practical Applications: Design, Simulation and Implementation	Online Course	1.0	0	0	0	0	3.0			
98	CFOC145M	Fabrication Techniques for MEMs - based sensors: clinical Perspective	Online Course	1.0	0	0	0	0	3.0			
99	CFOC146M	Linear System Theory	Online Course	1.0	0	0	0	0	3.0			
100	CFOC147M	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink	Online Course	1.0	0	0	0	0	2.0			

Open Elective										
101	CFOC148M	Introduction to Wireless and Cellular Communications	Online Course	1.0	0	0	0	0	3.0	
102	CFOC149M	Digital Switching - I	Online Course	1.0	0	0	0	0	2.0	
103	CFOC150M	Microelectronics: Devices To Circuits	Online Course	1.0	0	0	0	0	3.0	
104	CFOC151M	Digital Image Processing	Online Course	1.0	0	0	0	0	3.0	
105	CFOC152M	Pattern Recognition and Application	Online Course	1.0	0	0	0	0	3.0	
106	CFOC153M	Microwave Theory and Techniques	Online Course	1.0	0	0	0	0	3.0	
107	CFOC154M	Principles and Techniques of Modern Radar Systems	Online Course	1.0	0	0	0	0	3.0	
108	CFOC155M	Computational Electromagnetics	Online Course	1.0	0	0	0	0	3.0	
109	CFOC156M	Microwave Engineering	Online Course	1.0	0	0	0	0	3.0	
110	CFOC157M	Introduction to parallel Programming in Open MP	Online Course	1.0	0	0	0	0	1.0	
111	CFOC158M	Reinforcement Learning	Online Course	1.0	0	0	0	0	3.0	
112	CFOC159M	Applied Natural Language Processing	Online Course	1.0	0	0	0	0	3.0	
113	CFOC160M	Python for Data Science	Online Course	1.0	0	0	0	0	1.0	
114	CFOC161M	Data Science for Engineers	Online Course	1.0	0	0	0	0	2.0	
115	CFOC162M	Scalable Data Science	Online Course	1.0	0	0	0	0	2.0	
116	CFOC163M	Advanced Computer Architecture	Online Course	1.0	0	0	0	0	2.0	
117	CFOC164M	Software Project Management	Online Course	1.0	0	0	0	0	3.0	
118	CFOC165M	Software testing	Online Course	1.0	0	0	0	0	3.0	
119	CFOC166M	Hardware Modeling using Verilog	Online Course	1.0	0	0	0	0	2.0	
120	CFOC167M	Synthesis of Digital Systems	Online Course	1.0	0	0	0	0	3.0	
121	CFOC168M	Switching Circuits and Logic Design	Online Course	1.0	0	0	0	0	3.0	
122	CFOC169M	Demystifying networking	Online Course	1.0	0	0	0	0	1.0	
123	CFOC170M	Modern Algebra	Online Course	1.0	0	0	0	0	2.0	
124	CFOC171M	Introduction to Haskell Programming 2	Online Course	1.0	0	0	0	0	2.0	
125	CFOC172M	Flow through Porous Media	Online Course	1.0	0	0	0	0	3.0	
126	CFOC173M	Bioenergy	Online Course	1.0	0	0	0	0	2.0	
127	CFOC174M	Introduction to Biostatistics	Online Course	1.0	0	0	0	0	2.0	
128	CFOC175M	Nanotechnology in Agriculture	Online Course	1.0	0	0	0	0	2.0	
129	CFOC176M	Computer Aided Drug Design	Online Course	1.0	0	0	0	0	2.0	
130	CFOC177M	Drug Delivery: Principles and Engineering	Online Course	1.0	0	0	0	0	3.0	
131	CFOC178M	Functional Genomics	Online Course	1.0	0	0	0	0	1.0	
132	CFOC179M	Introduction to Proteogenomics	Online Course	1.0	0	0	0	0	3.0	
133	CFOC180M	Introduction to Mechanobiology	Online Course	1.0	0	0	0	0	2.0	
134	CFOC181M	WildLife Conservation	Online Course	1.0	0	0	0	0	2.0	
135	CFOC182M	Organic Chemistry in Biology and Drug Development	Online Course	1.0	0	0	0	0	3.0	
136	CFOC183M	Bioinorganic Chemistry	Online Course	1.0	0	0	0	0	1.0	
137	CFOC184M	Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries	Online Course	1.0	0	0	0	0	3.0	
138	CFOC185M	Biophysical chemistry	Online Course	1.0	0	0	0	0	3.0	
139	CFOC186M	Deep Learning	Online Course	1.0	0	0	0	0	3.0	
140	CFOC187M	Blockchain Architecture Design and use Cases	Online Course	1.0	0	0	0	0	3.0	
141	CFOC188M	Ethical Hacking	Online Course	1.0	0	0	0	0	3.0	
142	CFOC189M	Organic Farming for Sustainable Agricultural	Online Course	1.0	0	0	0	0	2.0	
Report On :	29-10-2024 07:33:	Production 34 PM					-	Page 6	of 19	

Open Elective													
143	CFOC190M	Positive Psychology	Online Course	1.0	0	0	0	0	2.0				
144	CFOC191M	Forests and their Management	Online Course	1.0	0	0	0	0	3.0				
145	CFOC192M	Forest Biometry	Online Course	1.0	0	0	0	0	2.0				
146	CFOC193M	Bioengineering: An Interface with Biology and Medicine	Online Course	1.0	0	0	0	0	2.0				
147	CFOC194M	Human Molecular Genetics	Online Course	1.0	0	0	0	0	1.0				
148	CFOC195M	Bioenergetics of Life Processes	Online Course	1.0	0	0	0	0	1.0				
149	CFOC196M	Computational Systems Biology	Online Course	1.0	0	0	0	0	3.0				
150	CFOC197M	Bio-Informatics: Algorithms and Applications	Online Course	1.0	0	0	0	0	3.0				
151	CFOC198M	Biostatistics and Design of Experiments	Online Course	1.0	0	0	0	0	2.0				
152	CFOC199M	Medical Biomaterials	Online Course	1.0	0	0	0	0	2.0				
153	CFOC200M	Demystifying the Brain	Online Course	1.0	0	0	0	0	1.0				
154	CFOC201M	Principles and Applications of NMR Spectroscopy	Online Course	1.0	0	0	0	0	2.0				
155	CFOC202M	Cell Culture Technologies	Online Course	1.0	0	0	0	0	2.0				
156	CFOC203M	Natural Hazards	Online Course	1.0	0	0	0	0	2.0				
157	CFOC204M	Modern Construction Materials	Online Course	1.0	0	0	0	0	3.0				
158	CFOC205M	Energy Efficiency, Acoustics and Daylighting in Building	Online Course	1.0	0	0	0	0	3.0				
159	CFOC206M	Fire Protection, Services and Maintenance Management of Building	Online Course	1.0	0	0	0	0	3.0				
160	CFOC207M	Electronic Waste Management - Issues And Challenges	Online Course	1.0	0	0	0	0	1.0				
161	CFOC208M	Higher Surveying	Online Course	1.0	0	0	0	0	3.0				
162	CFOC209M	Environmental Remediation of Contaminated Sites	Online Course	1.0	0	0	0	0	3.0				
163	CFOC210M	Soil Structure Interaction	Online Course	1.0	0	0	0	0	3.0				
164	CFOC211M	Introduction to Accounting and Finance for Civil Engineers	Online Course	1.0	0	0	0	0	2.0				
165	CFOC212M	Scheduling Techniques in Projects	Online Course	1.0	0	0	0	0	1.0				
166	CFOC213M	GPS Surveying	Online Course	1.0	0	0	0	0	1.0				
167	CFOC214M	Sustainable Materials and Green Buildings	Online Course	1.0	0	0	0	0	3.0				
168	CFOC215M	Geomorphic Processes: Landforms and Landscapes	Online Course	1.0	0	0	0	0	2.0				
169	CFOC216M	Introduction To Process Modeling in the Membrane Separation Process	Online Course	1.0	0	0	0	0	1.0				
170	CFOC217M	Computational Geometry	Online Course	1.0	0	0	0	0	3.0				
171	CFOC218M	Compiler Design	Online Course	1.0	0	0	0	0	3.0				
172	CFOC219M	Embedded System Design with ARM	Online Course	1.0	0	0	0	0	2.0				
173	CFOC220M	VLSI Physical Design	Online Course	1.0	0	0	0	0	3.0				
174	CFOC221M	Cloud computing	Online Course	1.0	0	0	0	0	2.0				
175	CFOC222M	Artificial Intelligence : Knowledge Representation And Reasoning	Online Course	1.0	0	0	0	0	3.0				
176	CFOC223M	Privacy and Security in Online Social Media	Online Course	1.0	0	0	0	0	2.0				
177	CFOC224M	Information Security - 5 - Secure Systems Engineering	Online Course	1.0	0	0	0	0	2.0				
178	CFOC225M	Model Checking	Online Course	1.0	0	0	0	0	3.0				
179	CFOC226M	Randomized Algorithms	Online Course	1.0	0	0	0	0	3.0				

		Open Elective							
180	CFOC227M	GPU Architectures and Programming	Online Course	1.0	0	0	0	0	3.0
181	CFOC228M	Multi-Core Computer Architecture - Storage and Interconnects	Online Course	1.0	0	0	0	0	2.0
182	CFOC229M	Data Analytics with Python	Online Course	1.0	0	0	0	0	3.0
183	CFOC230M	Arithmetic Circuit Complexity	Online Course	1.0	0	0	0	0	3.0
184	CFOC231M	Google Cloud Computing Foundation Course	Online Course	1.0	0	0	0	0	2.0
185	CFOC232M	Consumer Behaviour	Online Course	1.0	0	0	0	0	2.0
186	CFOC233M	Enhancing Soft Skills and Personality	Online Course	1.0	0	0	0	0	2.0
187	CFOC234M	Introduction to Airplane Performance	Online Course	1.0	0	0	0	0	2.0
188	CFOC235M	Rocket Propulsion	Online Course	1.0	0	0	0	0	3.0
189	CFOC236M	Aircraft Maintenance	Online Course	1.0	0	0	0	0	1.0
190	CFOC237M	Sustainable Architecture	Online Course	1.0	0	0	0	0	3.0
191	CFOC238M	Introduction to History of Architecture in India	Online Course	1.0	0	0	0	0	1.0
192	CFOC239M	Structure, Form, and Architecture : The Synergy	Online Course	1.0	0	0	0	0	2.0
193	CFOC240M	Interactomics : Basics and Applications	Online Course	1.0	0	0	0	0	3.0
194	CFOC241M	Introduction to Professional Scientific Communication	Online Course	1.0	0	0	0	0	1.0
195	CFOC242M	Material and Energy Balances	Online Course	1.0	0	0	0	0	3.0
196	CFOC243M	Thermodynamics for Biological Systems: Classical and Statistical Aspect	Online Course	1.0	0	0	0	0	3.0
197	CFOC244M	Optical Spectroscopy and Microscopy : Fundamentals of Optical Measurements and Instrumentation	Online Course	1.0	0	0	0	0	3.0
198	CFOC245M	Fundamentals of Semiconductor Devices	Online Course	1.0	0	0	0	0	3.0
199	CFOC246M	Characterization of Construction Materials	Online Course	1.0	0	0	0	0	3.0
200	CFOC247M	Introduction to Civil Engineering Profession	Online Course	1.0	0	0	0	0	2.0
201	CFOC248M	Environmental Geomechanics	Online Course	1.0	0	0	0	0	3.0
202	CFOC249M	Mechanical Characterization of Bituminous Materials	Online Course	1.0	0	0	0	0	3.0
203	CFOC250M	Geosynthetics and Reinforced Soil Structures	Online Course	1.0	0	0	0	0	3.0
204	CFOC251M	Geotechnical Engineering II Foundation Engineering	Online Course	1.0	0	0	0	0	3.0
205	CFOC252M	Landscape Architecture and Site Planning - Basic Fundamentals	Online Course	1.0	0	0	0	0	2.0
206	CFOC253M	Plastic Waste Management	Online Course	1.0	0	0	0	0	2.0
207	CFOC254M	Advanced Topics in the Science and Technology of Concrete	Online Course	1.0	0	0	0	0	1.0
208	CFOC255M	Applied Environmental Microbiology	Online Course	1.0	0	0	0	0	3.0
209	CFOC256M	Digital Land Surveying And Mapping (DLS&M)	Online Course	1.0	0	0	0	0	2.0
210	CFOC257M	Earthquake Geology: A tool for Seismic Hazard Assessment	Online Course	1.0	0	0	0	0	3.0
211	CFOC258M	Introduction to Geographic Information Systems	Online Course	1.0	0	0	0	0	1.0
212	CFOC259M	Structural Dynamics	Online Course	2.0	0	0	0	0	4.0
213	CFOC260M	Water Supply Engineering	Online Course	1.0	0	0	0	0	3.0
214	CFOC261M	Geo Spatial Analysis in Urban Planning	Online Course	1.0	0	0	0	0	1.0
215	CFOC262M	Geotechnical Engineering - 1	Online Course	1.0	0	0	0	0	3.0
216	CFOC263M	Maintenance and Repair of Concrete Structures	Online Course	1.0	0	0	0	0	3.0
217	CFOC264M	Thermodynamics	Online Course	1.0	0	0	0	0	3.0
218	CFOC265M n: 29-10-2024 07:33	Geomorphology	Online Course	1.0	0	0	0	0	3.0 3 of 19

Open Elective												
219	CFOC266M	Remote Sensing Essentials	Online Course	1.0	0	0	0	0	3.0			
220	CFOC267M	Hydraulic Engineering	Online Course	1.0	0	0	0	0	3.0			
221	CFOC268M	Environmental Quality Monitoring and Analysis	Online Course	1.0	0	0	0	0	3.0			
222	CFOC269M	Electrochemical Technology in Pollution Control	Online Course	1.0	0	0	0	0	2.0			
223	CFOC270M	Advanced Thermodynamics	Online Course	1.0	0	0	0	0	3.0			
224	CFOC271M	Membrane Technology	Online Course	1.0	0	0	0	0	3.0			
225	CFOC272M	Computational Fluid Dynamics	Online Course	1.0	0	0	0	0	3.0			
226	CFOC273M	Transport phenomena	Online Course	1.0	0	0	0	0	3.0			
227	CFOC274M	Optimization in Chemical Engineering	Online Course	1.0	0	0	0	0	3.0			
228	CFOC275M	Soft Nano Technology	Online Course	1.0	0	0	0	0	2.0			
229	CFOC276M	Transport processes I - Heat and Mass Transfer	Online Course	1.0	0	0	0	0	3.0			
230	CFOC277M	Process Control - Design, Analysis and Assessment	Online Course	1.0	0	0	0	0	3.0			
231	CFOC278M	Heat Transfer	Online Course	1.0	0	0	0	0	3.0			
232	CFOC279M	Chemical Reaction Engineering II	Online Course	1.0	0	0	0	0	3.0			
233	CFOC280M	Multiphase Flows	Online Course	1.0	0	0	0	0	2.0			
234	CFOC281M	Mass Transfer Operations - I	Online Course	1.0	0	0	0	0	3.0			
235	CFOC282M	Waste to Energy Conversion	Online Course	1.0	0	0	0	0	2.0			
236	CFOC283M	Equipment Design : Mechanical Aspects	Online Course	1.0	0	0	0	0	1.0			
237	CFOC284M	An Introduction to Cardiovascular Fluid Mechanics	Online Course	1.0	0	0	0	0	1.0			
238	CFOC285M	Computer Aided Applied Single Objective Optimization	Online Course	1.0	0	0	0	0	2.0			
239	CFOC286M	Basic Principles and Calculations in Chemical Engineering	Online Course	1.0	0	0	0	0	3.0			
240	CFOC287M	Introduction to Blockchain Technology and Applications	Online Course	1.0	0	0	0	0	2.0			
241	CFOC288M	Foundations of Cryptography	Online Course	1.0	0	0	0	0	3.0			
242	CFOC289M	Introduction to Database Systems	Online Course	1.0	0	0	0	0	3.0			
243	CFOC290M	Operating System	Online Course	1.0	0	0	0	0	3.0			
244	CFOC291M	Programming in C++	Online Course	1.0	0	0	0	0	2.0			
245	CFOC292M	Programming in Java	Online Course	1.0	0	0	0	0	3.0			
246	CFOC293M	Data Base Management System	Online Course	1.0	0	0	0	0	2.0			
247	CFOC294M	Introduction to Algorithms and Analysis	Online Course	1.0	0	0	0	0	3.0			
248	CFOC295M	Data Mining	Online Course	1.0	0	0	0	0	2.0			
249	CFOC296M	Embedded Systems Design	Online Course	1.0	0	0	0	0	3.0			
250	CFOC297M	Real Time Operating System	Online Course	1.0	0	0	0	0	1.0			
251	CFOC298M	Introduction to Soft Computing	Online Course	1.0	0	0	0	0	2.0			
252	CFOC299M	Cryptography and Network Security	Online Course	1.0	0	0	0	0	3.0			
253	CFOC300M	Introduction to Internet of Things	Online Course	1.0	0	0	0	0	3.0			
254	CFOC301M	Computer Networks and Internet Protocol	Online Course	1.0	0	0	0	0	3.0			
255	CFOC302M	Introduction to Industry 4.0 and Industrial Internet of Things	Online Course	1.0	0	0	0	0	3.0			
256	CFOC303M	Computer Architecture	Online Course	1.0	0	0	0	0	3.0			
257	CFOC304M	Programming, Data Structures And Algorithms Using Python	Online Course	1.0	0	0	0	0	2.0			

Open Elective												
258	CFOC305M	Introduction to Machine Learning	Online Course	1.0	0	0	0	0	3.0			
259	CFOC306M	Social Networks	Online Course	1.0	0	0	0	0	3.0			
260	CFOC307M	Foundations to Computer Systems Design	Online Course	1.0	0	0	0	0	3.0			
261	CFOC308M	The Joy of Computing using Python	Online Course	1.0	0	0	0	0	3.0			
262	CFOC309M	Discrete Mathematics	Online Course	1.0	0	0	0	0	3.0			
263	CFOC310M	An Introduction to Artificial Intelligence	Online Course	1.0	0	0	0	0	3.0			
264	CFOC311M	User-centric Computing for Human-Computer Interaction	Online Course	1.0	0	0	0	0	3.0			
265	CFOC312M	Cloud Computing and Distributed Systems	Online Course	1.0	0	0	0	0	2.0			
266	CFOC313M	Machine Learning	Online Course	1.0	0	0	0	0	2.0			
267	CFOC314M	Modern Application Development	Online Course	1.0	0	0	0	0	3.0			
268	CFOC315M	An Introduction To Programming Through C++	Online Course	1.0	0	0	0	0	3.0			
269	CFOC316M	Design and Pedagogy of the Introductory Programming Course	Online Course	1.0	0	0	0	0	1.0			
270	CFOC317M	Quantitative Methods in Chemistry	Online Course	1.0	0	0	0	0	3.0			
271	CFOC318M	Basics in Inorganic Chemistry	Online Course	1.0	0	0	0	0	1.0			
272	CFOC319M	Ultrafast Laser Spectroscopy	Online Course	1.0	0	0	0	0	3.0			
273	CFOC320M	Transition Metal Organometallics in Catalysis and Biology	Online Course	1.0	0	0	0	0	3.0			
274	CFOC321M	Essentials of Biomolecules : Nucleic Acids and Peptides	Online Course	1.0	0	0	0	0	3.0			
275	CFOC322M	Fundamentals of Spectroscopy	Online Course	1.0	0	0	0	0	3.0			
276	CFOC323M	Advanced Chemical Thermodynamics and Kinetics	Online Course	1.0	0	0	0	0	3.0			
277	CFOC324M	Biochemistry	Online Course	1.0	0	0	0	0	3.0			
278	CFOC325M	Organometallic Chemistry	Online Course	1.0	0	0	0	0	1.0			
279	CFOC326M	Chemical Applications of Symmetry and Group Theory	Online Course	1.0	0	0	0	0	2.0			
280	CFOC327M	Basic Thermodynamics : Classical and Statistical Approaches	Online Course	1.0	0	0	0	0	3.0			
281	CFOC328M	Medicinal Chemistry	Online Course	1.0	0	0	0	0	3.0			
282	CFOC329M	Design, Technology and Innovation	Online Course	1.0	0	0	0	0	2.0			
283	CFOC330M	Geographic Information System	Online Course	1.0	0	0	0	0	3.0			
284	CFOC331M	Product Design and Innovation	Online Course	1.0	0	0	0	0	1.0			
285	CFOC332M	Fundamentals of Automotive Systems	Online Course	1.0	0	0	0	0	3.0			
286	CFOC333M	Electronics Equipment Integration and Prototype Building	Online Course	1.0	0	0	0	0	2.0			
287	CFOC334M	High Power Multilevel Converters-Analysis, Design and Operational Issues	Online Course	1.0	0	0	0	0	3.0			
288	CFOC335M	Fuzzy Sets, Logic and Systems and Applications	Online Course	1.0	0	0	0	0	3.0			
289	CFOC336M	Transmission Lines and Electromagnetic Waves	Online Course	1.0	0	0	0	0	3.0			
290	CFOC337M	Digital IC Design	Online Course	1.0	0	0	0	0	3.0			
291	CFOC338M	Signals and Systems	Online Course	1.0	0	0	0	0	3.0			
292	CFOC339M	Power Management Integrated Circuits	Online Course	1.0	0	0	0	0	3.0			
293	CFOC340M	DC Power Transmission Systems	Online Course	1.0	0	0	0	0	3.0			
294	CFOC341M	Microprocessors and Interfacing	Online Course	1.0	0	0	0	0	3.0			

		Open Elective							
295	CFOC342M	Design and Simulation of Power Conversion using Open Source Tools	Online Course	1.0	0	0	0	0	1.0
296	CFOC343M	Integrated Circuits, MOSFETs, OP-Amps and their Applications	Online Course	1.0	0	0	0	0	3.0
297	CFOC344M	Electronic Systems for Cancer Diagnosis	Online Course	1.0	0	0	0	0	3.0
298	CFOC345M	Principles of Signals and Systems	Online Course	1.0	0	0	0	0	3.0
299	CFOC346M	Principles of Communication Systems - I	Online Course	1.0	0	0	0	0	3.0
300	CFOC347M	Principles of Digital Communication	Online Course	1.0	0	0	0	0	3.0
301	CFOC348M	Electric Vehicles - Part 1	Online Course	1.0	0	0	0	0	1.0
302	CFOC349M	Nonlinear Adaptive Control	Online Course	1.0	0	0	0	0	1.0
303	CFOC350M	Antennas	Online Course	1.0	0	0	0	0	3.0
304	CFOC351M	Multirate DSP	Online Course	1.0	0	0	0	0	3.0
305	CFOC352M	Control Engineering	Online Course	1.0	0	0	0	0	3.0
306	CFOC353M	Introduction to Photonics	Online Course	1.0	0	0	0	0	3.0
307	CFOC354M	Microwave Integrated Circuits 2	Online Course	1.0	0	0	0	0	2.0
308	CFOC355M	Analog IC Design	Online Course	1.0	0	0	0	0	3.0
309	CFOC356M	Analog Circuits	Online Course	1.0	0	0	0	0	3.0
310	CFOC357M	Advance Power Electronics and Control	Online Course	1.0	0	0	0	0	2.0
311	CFOC358M	CMOS Digital VLSI Design	Online Course	1.0	0	0	0	0	2.0
312	CFOC359M	Analog Circuits and Systems through SPICE Simulation	Online Course	1.0	0	0	0	0	3.0
313	CFOC360M	Discrete Time Signal Processing	Online Course	1.0	0	0	0	0	2.0
314	CFOC361M	Digital Electronic Circuits	Online Course	1.0	0	0	0	0	3.0
315	CFOC362M	Fundamentals of MIMO Wireless Communication	Online Course	1.0	0	0	0	0	2.0
316	CFOC363M	Spread Spectrum Communications and Jamming	Online Course	1.0	0	0	0	0	3.0
317	CFOC364M	Basic Building Blocks of Microwave Engineering & Design Principles of RF and Microware filters and Amplifiers	Online Course	1.0	0	0	0	0	2.0
318	CFOC365M	Evolution of Air Interface towards 5G	Online Course	1.0	0	0	0	0	2.0
319	CFOC366M	Architectural Design of Digital Integrated Circuits	Online Course	1.0	0	0	0	0	3.0
320	CFOC367M	Electrical Machines - II	Online Course	1.0	0	0	0	0	3.0
321	CFOC368M	Medical Image Analysis	Online Course	1.0	0	0	0	0	1.0
322	CFOC369M	Biomedical Signal Processing	Online Course	1.0	0	0	0	0	3.0
323	CFOC370M	Microprocessors And Microcontrollers	Online Course	1.0	0	0	0	0	3.0
324	CFOC371M	Recent Advances in Transmission Insulator	Online Course	1.0	0	0	0	0	1.0
325	CFOC372M	VLSI Signal Processing	Online Course	1.0	0	0	0	0	2.0
326	CFOC373M	Analog Electronic Circuits	Online Course	1.0	0	0	0	0	3.0
327	CFOC374M	Network Analysis	Online Course	1.0	0	0	0	0	3.0
328	CFOC375M	Optical Engineering	Online Course	1.0	0	0	0	0	3.0
329	CFOC376M	Mathematical Methods and Techniques in Signal Processing	Online Course	1.0	0	0	0	0	3.0
330	CFOC377M	A brief introduction of Micro – Sensors	Online Course	1.0	0	0	0	0	1.0
331	CFOC378M	Statistical Signal Processing	Online Course	1.0	0	0	0	0	3.0
332	CFOC379M	Nonlinear System Analysis	Online Course	1.0	0	0	0	0	3.0
333	CFOC380M On: 29-10-2024 07:3	Ethics in Engineering Practice	Online Course	1.0	0	0	0	0	2.0 1 of 19

		Open Elective							
334	CFOC381M	Introduction to Research	Online Course	1.0	0	0	0	0	2.0
335	CFOC382M	Matlab Programming for Numerical Computation	Online Course	1.0	0	0	0	0	2.0
336	CFOC383M	Roadmap for Patent Creation	Online Course	1.0	0	0	0	0	2.0
337	CFOC384M	Entrepreneurship Essentials	Online Course	1.0	0	0	0	0	3.0
338	CFOC385M	Fuzzy Logic and Neural Networks	Online Course	1.0	0	0	0	0	2.0
339	CFOC386M	Microeconomics : Theory & Applications	Online Course	1.0	0	0	0	0	3.0
340	CFOC387M	Introduction to Environmental Economics	Online Course	1.0	0	0	0	0	3.0
341	CFOC388M	Energy Resources, Economics and Environment	Online Course	1.0	0	0	0	0	3.0
342	CFOC389M	Literary Criticism (From Plato to Leavis)	Online Course	1.0	0	0	0	0	3.0
343	CFOC390M	Twentieth Century Fiction	Online Course	1.0	0	0	0	0	3.0
344	CFOC391M	Effective Writing	Online Course	1.0	0	0	0	0	1.0
345	CFOC392M	Strategic Trade and Protectionism - Theories and Empirics	Online Course	1.0	0	0	0	0	2.0
346	CFOC393M	Introduction to Cultural Studies	Online Course	1.0	0	0	0	0	3.0
347	CFOC394M	Introduction to Basic Spoken Sanskrit	Online Course	1.0	0	0	0	0	1.0
348	CFOC395M	Speaking Effectively	Online Course	1.0	0	0	0	0	2.0
349	CFOC396M	Soft Skill Development	Online Course	1.0	0	0	0	0	2.0
350	CFOC397M	Intellectual Property	Online Course	1.0	0	0	0	0	3.0
351	CFOC398M	English Language for Competitive Exams	Online Course	1.0	0	0	0	0	3.0
352	CFOC399M	English Literature for Competitive Exams	Online Course	1.0	0	0	0	0	2.0
353	CFOC400M	Language and Mind	Online Course	1.0	0	0	0	0	2.0
354	CFOC401M	The Nineteenth - Century English Novel	Online Course	1.0	0	0	0	0	3.0
355	CFOC402M	Introduction to World Literature	Online Course	1.0	0	0	0	0	3.0
356	CFOC403M	Patent Drafting for Beginners	Online Course	1.0	0	0	0	0	1.0
357	CFOC404M	Patent Law for Engineers and Scientists	Online Course	1.0	0	0	0	0	3.0
358	CFOC405M	Economic Growth & Development	Online Course	1.0	0	0	0	0	2.0
359	CFOC406M	Human Behaviour	Online Course	1.0	0	0	0	0	2.0
360	CFOC407M	Introduction to Modern Indian Political Thought	Online Course	1.0	0	0	0	0	3.0
361	CFOC408M	English Literature of the Romantic Period, 1798 - 1832	Online Course	1.0	0	0	0	0	2.0
362	CFOC409M	Literature, Culture and Media	Online Course	1.0	0	0	0	0	3.0
363	CFOC410M	Introduction to Brain & Behaviour	Online Course	1.0	0	0	0	0	2.0
364	CFOC411M	Modern Indian Writing in Translation	Online Course	1.0	0	0	0	0	3.0
365	CFOC412M	Introduction to Political Ideologies : Contexts, Ideas, and Practices	Online Course	1.0	0	0	0	0	3.0
366	CFOC413M	Indian Business History	Online Course	1.0	0	0	0	0	2.0
367	CFOC414M	German - II	Online Course	1.0	0	0	0	0	3.0
368	CFOC415M	German - I	Online Course	1.0	0	0	0	0	3.0
369	CFOC416M	Feminism : Concepts and Theories	Online Course	1.0	0	0	0	0	3.0
370	CFOC417M	An Introduction to Smooth Manifolds	Online Course	1.0	0	0	0	0	3.0
371	CFOC418M	Measure Theory	Online Course	1.0	0	0	0	0	3.0
372	CFOC419M	Basic Real Analysis	Online Course	1.0	0	0	0	0	3.0
373	CFOC420M	Probabilistic Methods in PDE	Online Course	1.0	0	0	0	0	3.0
374	CFOC421M	Graph Theory	Online Course	1.0	0	0	0	0	2.0

Open Elective													
375	CFOC422M	Transform Calculus and its applications in Differential Equations	Online Course	1.0	0	0	0	0	3.0				
376	CFOC423M	Integral and Vector Calculus	Online Course	1.0	0	0	0	0	3.0				
377	CFOC424M	Basic Linear Algebra	Online Course	1.0	0	0	0	0	2.0				
378	CFOC425M	Introduction to Rings And Fields	Online Course	1.0	0	0	0	0	2.0				
379	CFOC426M	Numerical Methods : Finite Difference Approach	Online Course	1.0	0	0	0	0	1.0				
380	CFOC427M	Numerical Linear Algebra	Online Course	1.0	0	0	0	0	3.0				
381	CFOC428M	Ordinary and Partial Differential Equations and Applications	Online Course	1.0	0	0	0	0	3.0				
382	CFOC429M	Advanced Engineering Mathematics	Online Course	1.0	0	0	0	0	3.0				
383	CFOC430M	Mathematical Methods and its Applications	Online Course	1.0	0	0	0	0	3.0				
384	CFOC431M	Multivariable Calculus	Online Course	1.0	0	0	0	0	2.0				
385	CFOC432M	Chaotic Dynamical System	Online Course	1.0	0	0	0	0	3.0				
386	CFOC433M	Engineering Mathematics II	Online Course	1.0	0	0	0	0	3.0				
387	CFOC434M	Advanced Probability Theory	Online Course	1.0	0	0	0	0	3.0				
388	CFOC435M	Statistical Inference	Online Course	1.0	0	0	0	0	2.0				
389	CFOC436M	Introduction to Algebraic Geometry and Commutative Algebra	Online Course	1.0	0	0	0	0	3.0				
390	CFOC437M	Linear Algebra	Online Course	1.0	0	0	0	0	3.0				
391	CFOC438M	Introduction to Probability and Statistics	Online Course	1.0	0	0	0	0	1.0				
392	CFOC439M	Descriptive Statistics with R Software	Online Course	1.0	0	0	0	0	2.0				
393	CFOC440M	Engineering Mechanics - Statics and Dynamics	Online Course	1.0	0	0	0	0	2.0				
394	CFOC441M	Experimental Stress Analysis	Online Course	1.0	0	0	0	0	3.0				
395	CFOC442M	Robotics and Control: Theory and Practice	Online Course	1.0	0	0	0	0	2.0				
396	CFOC443M	Computational Fluid Dynamics for Incompressible Flows	Online Course	1.0	0	0	0	0	3.0				
397	CFOC444M	Experimental Methods in Fluid Mechanics	Online Course	1.0	0	0	0	0	3.0				
398	CFOC445M	Foundations of Computational Materials Modelling	Online Course	1.0	0	0	0	0	3.0				
399	CFOC446M	Acoustic Materials and Metamaterials	Online Course	1.0	0	0	0	0	2.0				
400	CFOC447M	Power Plant Engineering	Online Course	1.0	0	0	0	0	2.0				
401	CFOC448M	Applied Ergonomics	Online Course	1.0	0	0	0	0	3.0				
402	CFOC449M	Product Design and Manufacturing	Online Course	1.0	0	0	0	0	3.0				
403	CFOC450M	Manufacturing Process Technology I & II	Online Course	1.0	0	0	0	0	3.0				
404	CFOC451M	Introduction To Mechanical Micro Machining	Online Course	1.0	0	0	0	0	3.0				
405	CFOC452M	Non Traditional Abrasive Machining Processes Ultrasonic, Abrasive Jet and Abrasive Water Jet Machining	Online Course	1.0	0	0	0	0	1.0				
406	CFOC453M	Gear And Gear Unit Design : Theory And Practice	Online Course	1.0	0	0	0	0	2.0				
407	CFOC454M	Conduction and Convection Heat Transfer	Online Course	1.0	0	0	0	0	3.0				
408	CFOC455M	Laws of Thermodynamics	Online Course	1.0	0	0	0	0	1.0				
409	CFOC456M	Kinematics of Mechanisms and Machines	Online Course	1.0	0	0	0	0	2.0				
410	CFOC457M	Introduction To Fluid Mechanics	Online Course	1.0	0	0	0	0	3.0				
411	CFOC458M	Fundamental of Welding Science and Technology	Online Course	1.0	0	0	0	0	2.0				
412	CFOC459M	Introduction to Abrasive Machining and Finishing Processes	Online Course	1.0	0	0	0	0	2.0				

Open Elective												
413	CFOC460M	Automatic Control	Online Course	1.0	0	0	0	0	2.0			
414	CFOC461M	Inspection and Quality Control in Manufacturing	Online Course	1.0	0	0	0	0	1.0			
415	CFOC462M	Diffusion in Multicomponent Solids	Online Course	1.0	0	0	0	0	3.0			
416	CFOC463M	Processing of Polymers and Polymer Composites	Online Course	1.0	0	0	0	0	2.0			
417	CFOC464M	Operations Management	Online Course	1.0	0	0	0	0	3.0			
418	CFOC465M	Convective Heat Transfer	Online Course	1.0	0	0	0	0	1.0			
419	CFOC466M	Two phase flow and heat transfer	Online Course	1.0	0	0	0	0	1.0			
420	CFOC467M	Steam and Gas Power Systems	Online Course	1.0	0	0	0	0	2.0			
421	CFOC468M	Principles of Casting Technology	Online Course	1.0	0	0	0	0	2.0			
422	CFOC469M	Financial Mathematics	Online Course	1.0	0	0	0	0	3.0			
423	CFOC470M	Modelling and Simulation of Dynamic Systems	Online Course	1.0	0	0	0	0	2.0			
424	CFOC471M	Fundamentals of combustion for propulsion	Online Course	1.0	0	0	0	0	2.0			
425	CFOC472M	Industrial Automation And Control	Online Course	1.0	0	0	0	0	3.0			
426	CFOC473M	Fundamentals of Nuclear Power Generation	Online Course	1.0	0	0	0	0	3.0			
427	CFOC474M	Mechanics of Machining	Online Course	1.0	0	0	0	0	2.0			
428	CFOC475M	IC Engines and Gas Turbines	Online Course	1.0	0	0	0	0	3.0			
429	CFOC476M	Principles of Industrial Engineering	Online Course	1.0	0	0	0	0	3.0			
430	CFOC477M	Computer Integrated Manufacturing	Online Course	1.0	0	0	0	0	3.0			
431	CFOC478M	Machining Science	Online Course	1.0	0	0	0	0	1.0			
432	CFOC479M	Introduction to Stochastic Processes	Online Course	1.0	0	0	0	0	3.0			
433	CFOC480M	Introduction to System Dynamics Modeling	Online Course	1.0	0	0	0	0	2.0			
434	CFOC481M	Management of New Products and Services	Online Course	1.0	0	0	0	0	1.0			
435	CFOC482M	Integrated Marketing Management	Online Course	1.0	0	0	0	0	2.0			
436	CFOC483M	Simulation of Business Systems: An Applied Approach	Online Course	1.0	0	0	0	0	2.0			
437	CFOC484M	Production and Operation Management	Online Course	1.0	0	0	0	0	3.0			
438	CFOC485M	Services Marketing : Integrating People, Technology, Strategy	Online Course	1.0	0	0	0	0	2.0			
439	CFOC486M	Managerial Skills for Interpersonal Dynamics	Online Course	1.0	0	0	0	0	3.0			
440	CFOC487M	Financial Institutions and Markets	Online Course	1.0	0	0	0	0	3.0			
441	CFOC488M	Business Analytics For Management Decision	Online Course	1.0	0	0	0	0	3.0			
442	CFOC489M	Services Marketing : A Practical Approach	Online Course	1.0	0	0	0	0	1.0			
443	CFOC490M	Sales and Distribution Management	Online Course	1.0	0	0	0	0	2.0			
444	CFOC491M	Principles of Human Resource Management	Online Course	1.0	0	0	0	0	2.0			
445	CFOC492M	Managing change in organizations	Online Course	1.0	0	0	0	0	2.0			
446	CFOC493M	Management of Inventory Systems	Online Course	1.0	0	0	0	0	3.0			
447	CFOC494M	Quality Design And Control	Online Course	1.0	0	0	0	0	3.0			
448	CFOC495M	Foundation Course in Managerial Economics	Online Course	1.0	0	0	0	0	2.0			
449	CFOC496M	Engineering Econometrics	Online Course	1.0	0	0	0	0	3.0			
450	CFOC497M	Financial Statement Analysis and Reporting	Online Course	1.0	0	0	0	0	3.0			
451	CFOC498M	Business Statistics	Online Course	1.0	0	0	0	0	3.0			
452	CFOC499M	Global Marketing Management	Online Course	1.0	0	0	0	0	2.0			
453	CFOC500M	Marketing Research and Analysis - II	Online Course	1.0	0	0	0	0	3.0			
454 Report On	CFOC501M 29-10-2024 07:33:	Infrastructure Planning and Managements 34 PM	Online Course	1.0	0	0	0 P	0 age 14	3.0 F of 19			

Open Elective												
455	CFOC502M	Modelling and Analytics for Supply Chain Management	Online Course	1.0	0	0	0	0	3.0			
456	CFOC503M	Marketing Analytics	Online Course	1.0	0	0	0	0	3.0			
457	CFOC504M	Financial Management For Managers	Online Course	1.0	0	0	0	0	3.0			
458	CFOC505M	Management of Commercial Banking	Online Course	1.0	0	0	0	0	3.0			
459	CFOC506M	Behavioral and Personal Finance	Online Course	1.0	0	0	0	0	2.0			
460	CFOC507M	Total Quality Management - 1	Online Course	1.0	0	0	0	0	2.0			
461	CFOC508M	Entrepreneurship	Online Course	1.0	0	0	0	0	3.0			
462	CFOC509M	Modeling of Tundish Steelmaking Process in Continuous Casting	Online Course	1.0	0	0	0	0	2.0			
463	CFOC510M	Fundamentals of Electronic Materials and Devices	Online Course	1.0	0	0	0	0	2.0			
464	CFOC511M	Introduction to Materials Science and Engineering	Online Course	1.0	0	0	0	0	3.0			
465	CFOC512M	Corrosion - Part I	Online Course	1.0	0	0	0	0	2.0			
466	CFOC513M	Solar Photovoltaics: Principles, Technologies and Materials	Online Course	1.0	0	0	0	0	2.0			
467	CFOC514M	Welding Processes	Online Course	1.0	0	0	0	0	3.0			
468	CFOC515M	Theory and Practice of Non Destructive Testing	Online Course	1.0	0	0	0	0	2.0			
469	CFOC516M	Steel Quality: Role of Secondary Refining and Continuous Casting	Online Course	1.0	0	0	0	0	3.0			
470	CFOC517M	Materials Science and Engineering	Online Course	1.0	0	0	0	0	2.0			
471	CFOC518M	Surface Engineering of Nanomaterials	Online Course	1.0	0	0	0	0	2.0			
472	CFOC519M	Dealing with Materials Data: Collection, Analysis and Interpretation	Online Course	1.0	0	0	0	0	3.0			
473	CFOC520M	Friction and Wear of Materials: Principle and Case Studies	Online Course	1.0	0	0	0	0	2.0			
474	CFOC521M	Material Characterization	Online Course	1.0	0	0	0	0	3.0			
475	CFOC522M	Offshore Structures Under Special Environmental Loads Including Fire Resistance	Online Course	1.0	0	0	0	0	3.0			
476	CFOC523M	Physics of Biological Systems	Online Course	1.0	0	0	0	0	3.0			
477	CFOC524M	Group Theory methods in Physics	Online Course	1.0	0	0	0	0	3.0			
478	CFOC525M	Experimental Physics - II	Online Course	1.0	0	0	0	0	3.0			
479	CFOC526M	Quantum Mechanics I	Online Course	1.0	0	0	0	0	3.0			
480	CFOC527M	A Brief Course on Superconductivity	Online Course	1.0	0	0	0	0	1.0			
481	CFOC528M	Fiber Optics	Online Course	1.0	0	0	0	0	2.0			
482	CFOC529M	Electromagnetism	Online Course	1.0	0	0	0	0	3.0			
483	CFOC530M	Experimental Physics III	Online Course	1.0	0	0	0	0	3.0			
484	CFOC531M	Electronic Theory of Solids	Online Course	1.0	0	0	0	0	3.0			
485	CFOC532M	Introduction to Atmospheric and Space Sciences	Online Course	1.0	0	0	0	0	3.0			
486	CFOC533M	Optical Sensors	Online Course	1.0	0	0	0	0	1.0			
487	CFOC534M	Evaluation of Textiles Materials	Online Course	1.0	0	0	0	0	3.0			
488	CFOC535M	Advanced Textile Printing Technology	Online Course	1.0	0	0	0	0	2.0			
489	CFOC536M	Textured Yarn Technology	Online Course	1.0	0	0	0	0	3.0			
490	CFOC537M	Theory of Yarn Structure	Online Course	1.0	0	0	0	0	3.0			
491	CFOC538M	Testing of Functional and Technical Textiles	Online Course	1.0	0	0	0	0	2.0			

Page 15 of 19

Open Elective												
492	CFOC539M	Applied Optimization for Wireless, Machine Learning, Big Data	Online Course	1.0	0	0	0	0	3.0			
493	CFOC540M	Deep Learning for Computer Vision	Online Course	1.0	0	0	0	0	3.0			
494	CFOC541M	Deep Learning for Visual Computing	Online Course	1.0	0	0	0	0	3.0			
495	CFOC542M	Principles of Compiler Design	Online Course	1.0	0	0	0	0	3.0			
496	CFOC543M	International Business	Online Course	1.0	0	0	0	0	3.0			
497	CFOC544M	Learning Analytics Tools	Online Course	1.0	0	0	0	0	3.0			
498	CFOC545M	Advanced IoT Applications	Online Course	1.0	0	0	0	0	2.0			
499	CFOC546M	Algorithms for Big Data	Online Course	1.0	0	0	0	0	2.0			
500	CFOC547M	Decision Making Using Financial Accounting	Online Course	1.0	0	0	0	0	2.0			
501	CFOC548M	Introduction on Intellectual Property to Engineers and Technologists	Online Course	1.0	0	0	0	0	2.0			
502	CFOC549M	Introduction to Quantum Computing: Quantum Algorithms and Qiskit	Online Course	1.0	0	0	0	0	1.0			
503	CFOC550M	Numerical Analysis	Online Course	1.0	0	0	0	0	4.0			
504	CFOC551M	Quantum Technology and Quantum Phenomena in Macroscopic Systems	Online Course	1.0	0	0	0	0	3.0			
505	CFOC552M	Electrochemical Impedance Spectroscopy	Online Course	1.0	0	0	0	0	3.0			
506	CFOC553M	Carbon Materials and Manufacturing	Online Course	1.0	0	0	0	0	3.0			
507	CFOC554M	Electronic Packaging and Manufacturing	Online Course	1.0	0	0	0	0	2.0			
508	CFOC555M	Finite Element Method	Online Course	1.0	0	0	0	0	3.0			
509	CFOC556M	Physics of Materials	Online Course	1.0	0	0	0	0	3.0			
510	CFOC557M	X-ray Crystallography and Diffraction	Online Course	1.0	0	0	0	0	3.0			
511	CFOC558M	Solar Photovoltaics Fundamentals, Technology and Applications	Online Course	1.0	0	0	0	0	2.0			
512	CFOC559M	Design of Photovoltaic Systems	Online Course	1.0	0	0	0	0	3.0			
513	CFOC560M	Fundamentals of Micro and Nanofabrication	Online Course	1.0	0	0	0	0	3.0			
514	CFOC561M	Biomedical Nanotechnology	Online Course	1.0	0	0	0	0	1.0			
515	CFOC562M	Design and Analysis of VLSI Subsystems	Online Course	1.0	0	0	0	0	3.0			
516	CFOC563M	Physics of Nanoscale Devices	Online Course	1.0	0	0	0	0	3.0			
517	CFOC564M	Photonic Integrated Circuit	Online Course	1.0	0	0	0	0	3.0			
518	CFOC565M	Technologies for Clean and Renewable Energy Production	Online Course	1.0	0	0	0	0	2.0			
519	CFOC566M	Elements of Solar Energy Conversion	Online Course	1.0	0	0	0	0	3.0			
520	CFOC567M	Physics of Renewable Energy Systems	Online Course	1.0	0	0	0	0	3.0			
521	CFOC568M	Structural Analysis of Nanomaterials	Online Course	1.0	0	0	0	0	1.0			
522	CFOC569M	Computational Approach to Materials Science and Engineering	Online Course	1.0	0	0	0	0	2.0			
523	CFOC570M	Public Speaking	Online Course	1.0	0	0	0	0	3.0			
524	CFOC571M	Introduction To CFD	Online Course	1.0	0	0	0	0	3.0			
525	CFOC572M	Dairy And Food Process And Products Technology	Online Course	1.0	0	0	0	0	3.0			
526	CFOC573M	Fundamentals Of Food Process Engineering	Online Course	1.0	0	0	0	0	3.0			
527	CFOC574M	Micro Irrigation Engineering	Online Course	1.0	0	0	0	0	3.0			
528	CFOC575M	Wildlife Ecology	Online Course	1.0	0	0	0	0	3.0			
529	CFOC576M	Integrated Waste Management For A Smart City	Online Course	1.0	0	0	0	0	3.0			

		Open Elective							
530	CFOC577M	Introduction To Multimodal Urban Transportation Systems (MUTS)	Online Course	1.0	0	0	0	0	3.0
531	CFOC578M	Wastewater Treatment And Recycling	Online Course	1.0	0	0	0	0	3.0
532	CFOC579M	Structural Geology	Online Course	1.0	0	0	0	0	3.0
533	CFOC580M	Real-Time Systems	Online Course	1.0	0	0	0	0	3.0
534	CFOC581M	Algorithmic Game Theory	Online Course	1.0	0	0	0	0	3.0
535	CFOC582M	Computational Number Theory and Algebra	Online Course	1.0	0	0	0	0	3.0
536	CFOC583M	Power System Protection	Online Course	1.0	0	0	0	0	3.0
537	CFOC585M	Great Experiments In Psychology	Online Course	1.0	0	0	0	0	1.0
538	CFOC586M	Spoken Sanskrit: Basic and Intermediate Levels	Online Course	1.0	0	0	0	0	3.0
539	CFOC587M	Economics of Banking and Finance Markets	Online Course	1.0	0	0	0	0	3.0
540	CFOC588M	Concepts Of Thermodynamics	Online Course	1.0	0	0	0	0	3.0
541	CFOC589M	Engineering Drawing And Computer Graphics	Online Course	1.0	0	0	0	0	3.0
542	CFOC590M	Management Information System	Online Course	1.0	0	0	0	0	3.0
543	CFOC591M	Principles Of Management	Online Course	1.0	0	0	0	0	3.0
544	CFOC592M	Stress Management	Online Course	1.0	0	0	0	0	1.0
545	CFOC593M	Corporate Finance	Online Course	1.0	0	0	0	0	3.0
546	CFOC594M	Customer Relationship Management	Online Course	1.0	0	0	0	0	2.0
547	CFOC595M	Urbanization and Environment	Online Course	1.0	0	0	0	0	2.0
548	CFOC596M	Digital Speech Processing	Online Course	1.0	0	0	0	0	2.0
549	CFOC597M	Globalization And Culture	Online Course	1.0	0	0	0	0	2.0
550	CFOC598M	Elements of Visual Representation	Online Course	1.0	0	0	0	0	2.0
551	CFOC599M	Leadership and Team Effectiveness	Online Course	1.0	0	0	0	0	3.0
552	CFOC622M	Indian Art: Materials, Techniques and Artistic Practices	Online Course	1.0	0	0	0	0	3.0
553	CFOC623M	Space Flight Mechanics	Online Course	1.0	0	0	0	0	3.0

	Non-graded Core Requirement												
sl.no	Course Code	Course Title	Course Type	Ver sio	L	Т	Р	J	Credits				
				n									
1	BCHY102N	Environmental Sciences	Online Course	1.0	0	0	0	0	2.0				
2	BCSE101N	Introduction to Engineering	Project	1.0	0	0	0	0	1.0				
3	BEXC100N	Extra curricular activities	Basket	1.0	0	0	0	0	2.0				
4	BHUM101N	Ethics and Values	Online Course	1.0	0	0	0	0	2.0				
5	BSSC101N	Essence of Traditional Knowledge	Online Course	1.0	0	0	0	0	2.0				
6	BSSC102N	Indian Constitution	Online Course	1.0	0	0	0	0	2.0				

Bridge Course										
sl.no	Course Code	Course Title	Course Type	Ver sio n	L	Т	Р	J	Credits	
1	BENG101N	Effective English Communication	Lab Only	1.0	0	0	4	0	2.0	

Specialization Elective									
sl.no	Course Code	Course Title	Course Type	Ver sio n	L	Т	Р	J	Credits
1	BCSE209L	Machine Learning	Theory Only	1.0	3	0	0	0	3.0
2	BCSE209P	Machine Learning Lab	Lab Only	1.0	0	0	2	0	1.0
3	BCSE332L	Deep Learning	Theory Only	1.0	3	0	0	0	3.0
4	BCSE332P	Deep Learning Lab	Lab Only	1.0	0	0	2	0	1.0
5	BCSE416L	Game Programming	Theory Only	1.1	3	0	0	0	3.0
6	BCSE416P	Game Programming Lab	Lab Only	1.0	0	0	2	0	1.0
7	BCSE417L	Machine vision	Theory Only	1.1	3	0	0	0	3.0
8	BCSE417P	Machine Vision Lab	Lab Only	1.0	0	0	2	0	1.0
9	BCSE418L	Explainable Artificial Intelligence	Theory Only	1.1	2	0	0	0	2.0
10	BCSE419L	Speech and Language Processing	Theory Only	1.0	3	0	0	0	3.0
11	BCSE419P	Speech and Language Processing lab	Lab Only	1.0	0	0	2	0	1.0
12	BCSE427L	Cognitive Robotics	Theory Only	1.0	2	0	0	0	2.0
13	BCSE427P	Cognitive Robotics Lab	Lab Only	1.0	0	0	2	0	1.0
14	BCSE428L	Autonomous Drones	Theory Only	1.0	2	0	0	0	2.0
15	BCSE428P	Autonomous Drones Lab	Lab Only	1.0	0	0	2	0	1.0

Report On: 29-10-2024 07:33:34 PM Page 18 of 19