	CREDIT INFO	
S.no	Catagory	Credits
1	Foundation Core - Basic Sciences and Mathematics	24
2	Foundation Core - Basic Engineering Sciences	14
3	Foundation Core - Humanities, Social Sciences and Management	15
4	Discipline-linked Engineering Sciences	12
5	Discipline Core	47
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	151

	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	BEEE102L	Basic Electrical and Electronics Engineering	Theory Only	1.0	3	0	0	0	3.0			
6	BEEE102P	Basic Electrical and Electronics Engineering Lab	Lab Only	1.0	0	0	2	0	1.0			

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	Foundation Core - Humanities, Social Sciences and Management											
sl.no	Course Code	Course Title	Course Type	Ver	L	Т	Р	J	Credits			
				sio 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	Soft Skill	1.1	3	0	0	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	Soft Skill	1.1	3	0	0	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 Core							
sl.no	Course Code	Course Title	Course Type	Ver sio n	L	т	P	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	BCSE203E	Web Programming	Embedded Theory and Lab	1.0	1	0	4	0	3.0
4	BCSE204L	Design and Analysis of Algorithms	Theory Only	1.0	3	0	0	0	3.0
5	BCSE204P	Design and Analysis of Algorithms Lab	Lab Only	1.0	0	0	2	0	1.0
6	BCSE205L	Computer Architecture and Organization	Theory Only	1.0	3	0	0	0	3.0
7	BCSE301L	Software Engineering	Theory Only	1.0	3	0	0	0	3.0
8	BCSE301P	Software Engineering Lab	Lab Only	1.0	0	0	2	0	1.0
9	BCSE302L	Database Systems	Theory Only	1.0	3	0	0	0	3.0
10	BCSE302P	Database Systems Lab	Lab Only	1.0	0	0	2	0	1.0
11	BCSE303L	Operating Systems	Theory Only	1.0	3	0	0	0	3.0
12	BCSE303P	Operating Systems Lab	Lab Only	1.0	0	0	2	0	1.0
13	BCSE304L	Theory of Computation	Theory Only	1.0	3	0	0	0	3.0
14	BCSE305L	Embedded Systems	Theory Only	1.0	3	0	0	0	3.0
15	BCSE306L	Artificial Intelligence	Theory Only	1.0	3	0	0	0	3.0

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		Discipline Core							
16	BCSE307L	Compiler Design	Theory Only	1.0	3	0	0	0	3.0
17	BCSE307P	Compiler Design Lab	Lab Only	1.0	0	0	2	0	1.0
18	BCSE308L	Computer Networks	Theory Only	11.0	3	0	0	0	3.0
19	BCSE308P	Computer Networks Lab	Lab Only	1.0	0	0	2	0	1.0
20	BCSE309L	Cryptography and Network Security	Theory Only	1.0	3	0	0	0	3.0
21	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 Elect	ive						
sl.no	Course Code	Course Title	Course Type	Ver sio n	L	т	P	J	Credits
1	BCSE355L	AWS Solutions Architect	Theory Only	1.0	3	0	0	0	3.0
2	BECE201L	Electronic Materials and devices	Theory Only	1.0	3	0	0	0	3.0
3	BECE203L	Circuit Theory	Theory Only	1.0	3	1	0	0	4.0
4	BECE351E	Internet of Things	Embedded Theory and Lab	1.0	1	0	2	0	2.0
5	BECE352E	IoT Domain Analyst	Embedded Theory and Lab	1.0	1	0	2	0	2.0
6	BEEE201L	Electronic Materials	Theory Only	1.0	3	0	0	0	3.0
7	BEEE203L	Circuit Theory	Theory Only	1.0	3	1	0	0	4.0
8	BEEE206L	Digital Electronics	Theory Only	1.0	3	0	0	0	3.0
9	BEEE206P	Digital Electronics Lab	Lab Only	1.0	0	0	2	0	1.0
10	BFST213E	Garment Designing and Manufacturing	Embedded Theory and Lab	1.0	2	0	2	0	3.0
11	BHUM201L	Mass Communication	Theory Only	1.0	3	0	0	0	3.0
12	BHUM202L	Rural Development	Theory Only	1.0	3	0	0	0	3.0
13	BHUM203L	Introduction to Psychology	Theory Only	1.0	3	0	0	0	3.0
14	BHUM204L	Industrial Psychology	Theory Only	1.0	3	0	0	0	3.0
15	BHUM205L	Development Economics	Theory Only	1.0	3	0	0	0	3.0
16	BHUM206L	International Economics	Theory Only	1.0	3	0	0	0	3.0
17	BHUM207L	Engineering Economics	Theory Only	1.0	3	0	0	0	3.0
18	BHUM208L	Economics of Strategy	Theory Only	1.0	3	0	0	0	3.0
19	BHUM209L	Game Theory	Theory Only	1.0	3	0	0	0	3.0

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Open Elective											
20	BHUM210E	Econometrics	Embedded Theory and Lab	1.0	2	0	2	0	3.0		
21	BHUM211L	Behavioral Economics	Theory Only	1.0	3	0	0	0	3.0		
22	BHUM212L	Mathematics for Economic Analysis	Theory Only	1.0	3	0	0	0	3.0		
23	BHUM213L	Corporate Social Responsibility	Theory Only	1.0	3	0	0	0	3.0		
24	BHUM214L	Political Science	Theory Only	1.0	3	0	0	0	3.0		
25	BHUM215L	International Relations	Theory Only	1.0	3	0	0	0	3.0		
26	BHUM216L	Indian Culture and Heritage	Theory Only	1.0	3	0	0	0	3.0		
27	BHUM217L	Contemporary India	Theory Only	1.0	3	0	0	0	3.0		
28	BHUM218L	Financial Management	Theory Only	1.0	3	0	0	0	3.0		
29	BHUM219L	Principles of Accounting	Theory Only	1.0	3	0	0	0	3.0		
30	BHUM220L	Financial Markets and Institutions	Theory Only	1.0	3	0	0	0	3.0		
31	BHUM221L	Economics of Money, Banking and Financial Markets	Theory Only	1.0	3	0	0	0	3.0		
32	BHUM222L	Security Analysis and Portfolio Management	Theory Only	1.0	3	0	0	0	3.0		
33	BHUM223L	Options, Futures and other Derivatives	Theory Only	1.0	3	0	0	0	3.0		
34	BHUM224L	Fixed Income Securities	Theory Only	1.0	3	0	0	0	3.0		
35	BHUM225L	Personal Finance	Theory Only	1.0	3	0	0	0	3.0		
36	BHUM226L	Corporate Finance	Theory Only	1.0	3	0	0	0	3.0		
37	BHUM227L	Financial Statement Analysis	Theory Only	1.0	3	0	0	0	3.0		
38	BHUM228L	Cost and Management Accounting	Theory Only	1.0	3	0	0	0	3.0		
39	BHUM229L	Mind, Embodiment, and Technology	Theory Only	1.0	3	0	0	0	3.0		
40	BHUM230L	Health Humanities in Biotechnological Era	Theory Only	1.0	3	0	0	0	3.0		
41	BHUM231L	Reproductive choices for a Sustainable Society	Theory Only	1.0	3	0	0	0	3.0		
42	BHUM232L	Introduction to Sustainable Aging	Theory Only	1.0	3	0	0	0	3.0		
43	BHUM233L	Environmental Psychology	Theory Only	1.0	3	0	0	0	3.0		
44	BHUM234L	Indian Psychology	Theory Only	1.0	3	0	0	0	3.0		
45	BHUM235E	Psychology of Wellness	Embedded Theory and Lab	1.0	2	0	2	0	3.0		
46	BHUM236L	Taxation	Theory Only	1.0	3	0	0	0	3.0		
47	BMEE102P	Engineering Design Visualisation Lab	Lab Only	1.0	0	0	4	0	2.0		
48	BMEE201L	Engineering Mechanics	Theory Only	1.0	2	1	0	0	3.0		
49	BMHA202L	Manufacturing Processes	Theory Only	1.0	3	0	0	0	3.0		
50	BMHA202P	Manufacturing Processes Lab	Lab Only	1.0	0	0	2	0	1.0		
51	BSTS301P	Advanced Competitive Coding – I	Soft Skill	1.0	3	0	0	0	1.5		
52	BSTS302P	Advanced Competitive Coding - II	Soft Skill	1.0	3	0	0	0	1.5		
53	CFOC101M	Advanced Green Manufacturing Systems	Online Course	1.0	0	0	0	0	3.0		
54	CFOC102M	Introduction to Cognitive Psychology	Online Course	1.0	0	0	0	0	3.0		
55	CFOC103M	Introduction to Political Theory	Online Course	1.0	0	0	0	0	3.0		
56	CFOC104M	Six Sigma	Online Course	1.0	0	0	0	0	3.0		
57	CFOC105M	Emotional Intelligence	Online Course	1.0	0	0	0	0	2.0		
58	CFOC106M	Manufacturing Strategy	Online Course	1.0	0	0	0	0	2.0		
59	CFOC107M	Supply Chain Analytics	Online Course	1.0	0	0	0	0	2.0		
60	CFOC108M	Systems Engineering: Theory and Practice	Online Course	1.0	0	0	0	0	2.0		
	CFOC109M : 15-06-2025 10:01	Design Thinking - A Primer :21 PM	Online Course	1.0	0	0	0	0 Page 4	1.0 of 21		

	Open Elective												
62	CFOC110M	MCDM Techniques Using R and MARLAB	Online Course	1.0	0	0	0	0	1.0				
63	CFOC111M	Perspectives on Neurolinguistic	Online Course	1.0	0	0	0	0	1.0				
64	CFOC112M	Sociology of Science	Online Course	1.0	0	0	0	0	1.0				
65	CFOC113M	Contemporary Themes in India's Economic Development and Economic Survey	Online Course	1.0	0	0	0	0	3.0				
66	CFOC114M	Problem Solving through Programming in C	Online Course	1.0	0	0	0	0	3.0				
67	CFOC115M	Design and Analysis of Algorithms	Online Course	1.0	0	0	0	0	2.0				
68	CFOC116M	Computer Vision	Online Course	1.0	0	0	0	0	3.0				
69	CFOC117M	Spatial Informatics	Online Course	1.0	0	0	0	0	2.0				
70	CFOC118M	Practical Machine Learning with Tensorflow	Online Course	1.0	0	0	0	0	2.0				
71	CFOC119M	Training of Trainers	Online Course	1.0	0	0	0	0	3.0				
72	CFOC120M	Knowledge Management	Online Course	1.0	0	0	0	0	2.0				
73	CFOC121M	Leadership	Online Course	1.0	0	0	0	0	1.0				
74	CFOC122M	Educational Leadership	Online Course	1.0	0	0	0	0	2.0				
75	CFOC123M	Cost Accounting	Online Course	1.0	0	0	0	0	1.0				
76	CFOC124M	Practitioners Course In Descriptive, Predictive and Prescriptive Analytics	Online Course	1.0	0	0	0	0	2.0				
77	CFOC125M	Decision Making Under Uncertainty	Online Course	1.0	0	0	0	0	1.0				
78	CFOC126M	Data Analysis and Decision Making - III	Online Course	1.0	0	0	0	0	3.0				
79	CFOC127M	Business Analytics and Data Mining Modeling Using R Part II	Online Course	1.0	0	0	0	0	1.0				
80	CFOC128M	Business Analytics and Text Mining Modeling Using Python	Online Course	1.0	0	0	0	0	2.0				
81	CFOC129M	Economics of Health and Health Care	Online Course	1.0	0	0	О	0	2.0				
82	CFOC130M	Human Resource Development	Online Course	1.0	0	0	0	0	3.0				
83	CFOC131M	Performance and Reward Management	Online Course	1.0	0	0	0	0	3.0				
84	CFOC132M	Corporate Social Responsibility	Online Course	1.0	0	0	0	0	2.0				
85	CFOC133M	E-Business	Online Course	1.0	0	0	0	0	3.0				
86	CFOC134M	Innovation, Business Models and Entrepreneurship	Online Course	1.0	0	0	0	0	2.0				
87	CFOC135M	The Ethical Corporation	Online Course	1.0	0	0	0	0	2.0				
88	CFOC136M	Toyota Production System	Online Course	1.0	0	0	0	0	2.0				
89	CFOC137M	Intellectual Property Rights and Competition Law	Online Course	1.0	0	0	0	0	2.0				
90	CFOC138M	Patent Search for Engineers and Lawyers	Online Course	1.0	0	0	0	0	2.0				
91	CFOC139M	Role of Craft and Technology in Interior - Architecture	Online Course	1.0	0	0	0	0	2.0				
92	CFOC140M	Glass In Buildings : Design And Applications	Online Course	1.0	0	0	0	0	3.0				
93	CFOC141M	Visual Perception and Art: A Survey Across the Cultures	Online Course	1.0	0	0	0	0	1.0				
94	CFOC142M	Mapping Signal Processing Algorithms to Architectures	Online Course	1.0	0	0	0	0	3.0				
95	CFOC143M	Introduction to Computer Vision	Online Course	1.0	0	0	0	0	3.0				
96	CFOC144M	Op-Amp Practical Applications: Design, Simulation and Implementation	Online Course	1.0	0	0	0	0	3.0				
97	CFOC145M	Fabrication Techniques for MEMs - based sensors: clinical Perspective	Online Course	1.0	0	0	0	0	3.0				
98	CFOC146M	Linear System Theory	Online Course	1.0	0	0	0	0	3.0				

	Open Elective											
99	CFOC147M	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink	Online Course	1.0	0	0	0	0	2.0			
100	CFOC148M	Introduction to Wireless and Cellular Communications	Online Course	1.0	0	0	0	0	3.0			
101	CFOC149M	Digital Switching - I	Online Course	1.0	0	0	0	0	2.0			
102	CFOC150M	Microelectronics: Devices To Circuits	Online Course	1.0	0	0	0	0	3.0			
103	CFOC151M	Digital Image Processing	Online Course	1.0	0	0	0	0	3.0			
104	CFOC152M	Pattern Recognition and Application	Online Course	1.0	0	0	0	0	3.0			
105	CFOC153M	Microwave Theory and Techniques	Online Course	1.0	0	0	0	0	3.0			
106	CFOC154M	Principles and Techniques of Modern Radar Systems	Online Course	1.0	0	0	0	0	3.0			
107	CFOC155M	Computational Electromagnetics	Online Course	1.0	0	0	0	0	3.0			
108	CFOC156M	Microwave Engineering	Online Course	1.0	0	0	0	0	3.0			
109	CFOC157M	Introduction to parallel Programming in Open MP	Online Course	1.0	0	0	0	0	1.0			
110	CFOC158M	Reinforcement Learning	Online Course	1.0	0	0	0	0	3.0			
111	CFOC159M	Applied Natural Language Processing	Online Course	1.0	0	0	0	0	3.0			
112	CFOC160M	Python for Data Science	Online Course	1.0	0	0	0	0	1.0			
113	CFOC161M	Data Science for Engineers	Online Course	1.0	0	0	0	0	2.0			
114	CFOC162M	Scalable Data Science	Online Course	1.0	0	0	0	0	2.0			
115	CFOC163M	Advanced Computer Architecture	Online Course	1.0	0	0	0	0	2.0			
116	CFOC164M	Software Project Management	Online Course	1.0	0	0	0	0	3.0			
117	CFOC165M	Software testing	Online Course	1.0	0	0	0	0	3.0			
118	CFOC166M	Hardware Modeling using Verilog	Online Course	1.0	0	0	0	0	2.0			
119	CFOC167M	Synthesis of Digital Systems	Online Course	1.0	0	0	0	0	3.0			
120	CFOC168M	Switching Circuits and Logic Design	Online Course	1.0	0	0	0	0	3.0			
121	CFOC169M	Demystifying networking	Online Course	1.0	0	0	0	0	1.0			
122	CFOC170M	Modern Algebra	Online Course	1.0	0	0	0	0	2.0			
123	CFOC171M	Introduction to Haskell Programming 2	Online Course	1.0	0	0	0	0	2.0			
124	CFOC172M	Flow through Porous Media	Online Course	1.0	0	0	0	0	3.0			
125	CFOC173M	Bioenergy	Online Course	1.0	0	0	0	0	2.0			
126	CFOC174M	Introduction to Biostatistics	Online Course	1.0	0	0	0	0	2.0			
127	CFOC175M	Nanotechnology in Agriculture	Online Course	1.0	0	0	0	0	2.0			
128	CFOC176M	Computer Aided Drug Design	Online Course	1.0	0	0	0	0	2.0			
129	CFOC177M	Drug Delivery: Principles and Engineering	Online Course	1.0	0	0	0	0	3.0			
130	CFOC178M	Functional Genomics	Online Course	1.0	0	0	0	0	1.0			
131	CFOC179M	Introduction to Proteogenomics	Online Course	1.0	0	0	0	0	3.0			
132	CFOC180M	Introduction to Mechanobiology	Online Course	1.0	0	0	0	0	2.0			
133	CFOC181M	WildLife Conservation	Online Course	1.0	0	0	0	0	2.0			
134	CFOC182M	Organic Chemistry in Biology and Drug Development	Online Course	1.0	0	0	0	0	3.0			
135	CFOC183M	Bioinorganic Chemistry	Online Course	1.0	0	0	0	0	1.0			
136	CFOC184M	Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries	Online Course	1.0	0	0	0	0	3.0			
137	CFOC185M	Biophysical chemistry	Online Course	1.0	0	0	0	0	3.0			
138	CFOC186M	Deep Learning	Online Course	1.0	0	0	0	0	3.0			
139	CFOC187M	Blockchain Architecture Design and use Cases	Online Course	1.0	0	0	0	0	3.0			
140	CFOC188M	Ethical Hacking	Online Course	1.0	0	0	0	0	3.0			
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		Open Elective							
141	CFOC189M	Organic Farming for Sustainable Agricultural	Online Course	1.0	0	0	0	0	2.0
142	CFOC190M	Production Positive Psychology	Online Course	1.0	0	0	0	0	2.0
143	CFOC191M	Forests and their Management	Online Course	1.0	0	0	0	0	3.0
144	CFOC192M	Forest Biometry	Online Course	1.0	0	0	0	0	2.0
145	CFOC193M	Bioengineering: An Interface with Biology and Medicine	Online Course	1.0	0	0	0	0	2.0
146	CFOC194M	Human Molecular Genetics	Online Course	1.0	0	0	0	0	1.0
147	CFOC195M	Bioenergetics of Life Processes	Online Course	1.0	0	0	0	0	1.0
148	CFOC196M	Computational Systems Biology	Online Course	1.0	0	0	0	0	3.0
149	CFOC197M	Bio-Informatics: Algorithms and Applications	Online Course	1.0	0	0	0	0	3.0
150	CFOC198M	Biostatistics and Design of Experiments	Online Course	1.0	0	0	0	0	2.0
151	CFOC199M	Medical Biomaterials	Online Course	1.0	0	0	0	0	2.0
152	CFOC200M	Demystifying the Brain	Online Course	1.0	0	0	0	0	1.0
153	CFOC201M	Principles and Applications of NMR Spectroscopy	Online Course	1.0	0	0	0	0	2.0
154	CFOC202M	Cell Culture Technologies	Online Course	1.0	0	0	0	0	2.0
155	CFOC203M	Natural Hazards	Online Course	1.0	0	0	0	0	2.0
156	CFOC204M	Modern Construction Materials	Online Course	1.0	0	0	0	0	3.0
157	CFOC205M	Energy Efficiency, Acoustics and Daylighting in Building	Online Course	1.0	0	0	0	0	3.0
158	CFOC206M	Fire Protection, Services and Maintenance Management of Building	Online Course	1.0	0	0	0	0	3.0
159	CFOC207M	Electronic Waste Management - Issues And Challenges	Online Course	1.0	0	0	0	0	1.0
160	CFOC208M	Higher Surveying	Online Course	1.0	0	0	0	0	3.0
161	CFOC209M	Environmental Remediation of Contaminated Sites	Online Course	1.0	0	0	0	0	3.0
162	CFOC210M	Soil Structure Interaction	Online Course	1.0	0	0	0	0	3.0
163	CFOC211M	Introduction to Accounting and Finance for Civil Engineers	Online Course	1.0	0	0	0	0	2.0
164	CFOC212M	Scheduling Techniques in Projects	Online Course	1.0	0	0	0	0	1.0
165	CFOC213M	GPS Surveying	Online Course	1.0	0	0	0	0	1.0
166	CFOC214M	Sustainable Materials and Green Buildings	Online Course	1.0	0	0	0	0	3.0
167	CFOC215M	Geomorphic Processes: Landforms and Landscapes	Online Course	1.0	0	0	0	0	2.0
168	CFOC216M	Introduction To Process Modeling in the Membrane Separation Process	Online Course	1.0	0	0	0	0	1.0
169	CFOC217M	Computational Geometry	Online Course	1.0	0	0	0	0	3.0
170	CFOC218M	Compiler Design	Online Course	1.0	0	0	0	0	3.0
171	CFOC219M	Embedded System Design with ARM	Online Course	1.0	0	0	0	0	2.0
172	CFOC220M	VLSI Physical Design	Online Course	1.0	0	0	0	0	3.0
173	CFOC221M	Cloud computing	Online Course	1.0	0	0	0	0	2.0
174	CFOC222M	Artificial Intelligence : Knowledge Representation And Reasoning	Online Course	1.0	0	0	0	0	3.0
175	CFOC223M	Privacy and Security in Online Social Media	Online Course	1.0	0	0	0	0	2.0
176	CFOC224M	Information Security - 5 - Secure Systems Engineering	Online Course	1.0	0	0	0	0	2.0

		Open Elective							
177	CFOC225M	Model Checking	Online Course	1.0	0	0	0	0	3.0
178	CFOC226M	Randomized Algorithms	Online Course	1.0	0	0	0	0	3.0
179	CFOC227M	GPU Architectures and Programming	Online Course	1.0	0	0	0	0	3.0
180	CFOC228M	Multi-Core Computer Architecture - Storage and Interconnects	Online Course	1.0	0	0	0	0	2.0
181	CFOC229M	Data Analytics with Python	Online Course	1.0	0	0	0	0	3.0
182	CFOC230M	Arithmetic Circuit Complexity	Online Course	1.0	0	0	0	0	3.0
183	CFOC231M	Google Cloud Computing Foundation Course	Online Course	1.0	0	0	0	0	2.0
184	CFOC232M	Consumer Behaviour	Online Course	1.0	0	0	0	0	2.0
185	CFOC233M	Enhancing Soft Skills and Personality	Online Course	1.0	0	0	0	0	2.0
186	CFOC234M	Introduction to Airplane Performance	Online Course	1.0	0	0	0	0	2.0
187	CFOC235M	Rocket Propulsion	Online Course	1.0	0	0	0	0	3.0
188	CFOC236M	Aircraft Maintenance	Online Course	1.0	0	0	0	0	1.0
189	CFOC237M	Sustainable Architecture	Online Course	1.0	0	0	0	0	3.0
190	CFOC238M	Introduction to History of Architecture in India	Online Course	1.0	0	0	0	0	1.0
191	CFOC239M	Structure, Form, and Architecture : The Synergy	Online Course	1.0	0	0	0	0	2.0
192	CFOC240M	Interactomics : Basics and Applications	Online Course	1.0	0	0	0	0	3.0
193	CFOC241M	Introduction to Professional Scientific Communication	Online Course	1.0	0	0	0	0	1.0
194	CFOC242M	Material and Energy Balances	Online Course	1.0	0	0	0	0	3.0
195	CFOC243M	Thermodynamics for Biological Systems: Classical and Statistical Aspect	Online Course	1.0	0	0	0	0	3.0
196	CFOC244M	Optical Spectroscopy and Microscopy : Fundamentals of Optical Measurements and Instrumentation	Online Course	1.0	0	0	0	0	3.0
197	CFOC245M	Fundamentals of Semiconductor Devices	Online Course	1.0	0	0	0	0	3.0
198	CFOC246M	Characterization of Construction Materials	Online Course	1.0	0	0	0	0	3.0
199	CFOC247M	Introduction to Civil Engineering Profession	Online Course	1.0	0	0	0	0	2.0
200	CFOC248M	Environmental Geomechanics	Online Course	1.0	0	0	0	0	3.0
201	CFOC249M	Mechanical Characterization of Bituminous Materials	Online Course	1.0	0	0	0	0	3.0
202	CFOC250M	Geosynthetics and Reinforced Soil Structures	Online Course	1.0	0	0	0	0	3.0
203	CFOC251M	Geotechnical Engineering II Foundation Engineering	Online Course	1.0	0	0	0	0	3.0
204	CFOC252M	Landscape Architecture and Site Planning - Basic Fundamentals	Online Course	1.0	0	0	0	0	2.0
205	CFOC253M	Plastic Waste Management	Online Course	1.0	0	0	0	0	2.0
206	CFOC254M	Advanced Topics in the Science and Technology of Concrete	Online Course	1.0	0	0	0	0	1.0
207	CFOC255M	Applied Environmental Microbiology	Online Course	1.0	0	0	0	0	3.0
208	CFOC256M	Digital Land Surveying And Mapping (DLS&M)	Online Course	1.0	0	0	0	0	2.0
209	CFOC257M	Earthquake Geology: A tool for Seismic Hazard Assessment	Online Course	1.0	0	0	0	0	3.0
210	CFOC258M	Introduction to Geographic Information Systems	Online Course	1.0	0	0	0	0	1.0
211	CFOC259M	Structural Dynamics	Online Course	2.0	0	0	0	0	4.0
212	CFOC260M	Water Supply Engineering	Online Course	1.0	0	0	0	0	3.0
213	CFOC261M	Geo Spatial Analysis in Urban Planning	Online Course	1.0	0	0	0	0	1.0
214	CFOC262M	Geotechnical Engineering - 1	Online Course	1.0	0	0	0	0	3.0
215 Report On	CFOC263M : 15-06-2025 10:01:	Maintenance and Repair of Concrete Structures 21 PM	Online Course	1.0	0	0	0	0 Page 8	3.0 of 21

		Open Elective							
216	CFOC264M	Thermodynamics	Online Course	1.0	0	0	0	0	3.0
217	CFOC265M	Geomorphology	Online Course	1.0	0	0	0	0	3.0
218	CFOC266M	Remote Sensing Essentials	Online Course	1.0	0	0	0	0	3.0
219	CFOC267M	Hydraulic Engineering	Online Course	1.0	0	0	0	0	3.0
220	CFOC268M	Environmental Quality Monitoring and Analysis	Online Course	1.0	0	0	0	0	3.0
221	CFOC269M	Electrochemical Technology in Pollution Control	Online Course	1.0	0	0	0	0	2.0
222	CFOC270M	Advanced Thermodynamics	Online Course	1.0	0	0	0	0	3.0
223	CFOC271M	Membrane Technology	Online Course	1.0	0	0	0	0	3.0
224	CFOC272M	Computational Fluid Dynamics	Online Course	1.0	0	0	0	0	3.0
225	CFOC273M	Transport phenomena	Online Course	1.0	0	0	0	0	3.0
226	CFOC274M	Optimization in Chemical Engineering	Online Course	1.0	0	0	0	0	3.0
227	CFOC275M	Soft Nano Technology	Online Course	1.0	0	0	0	0	2.0
228	CFOC276M	Transport processes I - Heat and Mass Transfer	Online Course	1.0	0	0	0	0	3.0
229	CFOC277M	Process Control - Design, Analysis and Assessment	Online Course	1.0	0	0	0	0	3.0
230	CFOC278M	Heat Transfer	Online Course	1.0	0	0	0	0	3.0
231	CFOC279M	Chemical Reaction Engineering II	Online Course	1.0	0	0	0	0	3.0
232	CFOC280M	Multiphase Flows	Online Course	1.0	0	0	0	0	2.0
233	CFOC281M	Mass Transfer Operations - I	Online Course	1.0	0	0	0	0	3.0
234	CFOC282M	Waste to Energy Conversion	Online Course	1.0	0	0	0	0	2.0
235	CFOC283M	Equipment Design : Mechanical Aspects	Online Course	1.0	0	0	0	0	1.0
236	CFOC284M	An Introduction to Cardiovascular Fluid Mechanics	Online Course	1.0	0	0	0	0	1.0
237	CFOC285M	Computer Aided Applied Single Objective Optimization	Online Course	1.0	0	0	0	0	2.0
238	CFOC286M	Basic Principles and Calculations in Chemical Engineering	Online Course	1.0	0	0	0	0	3.0
239	CFOC287M	Introduction to Blockchain Technology and Applications	Online Course	1.0	0	0	0	0	2.0
240	CFOC288M	Foundations of Cryptography	Online Course	1.0	0	0	0	0	3.0
241	CFOC289M	Introduction to Database Systems	Online Course	1.0	0	0	0	0	3.0
242	CFOC290M	Operating System	Online Course	1.0	0	0	0	0	3.0
243	CFOC291M	Programming in C++	Online Course	1.0	0	0	0	0	2.0
244	CFOC292M	Programming in Java	Online Course	1.0	0	0	0	0	3.0
245	CFOC293M	Data Base Management System	Online Course	1.0	0	0	0	0	2.0
246	CFOC294M	Introduction to Algorithms and Analysis	Online Course	1.0	0	0	0	0	3.0
247	CFOC295M	Data Mining	Online Course	1.0	0	0	0	0	2.0
248	CFOC296M	Embedded Systems Design	Online Course	1.0	0	0	0	0	3.0
249	CFOC297M	Real Time Operating System	Online Course	1.0	0	0	0	0	1.0
250	CFOC298M	Introduction to Soft Computing	Online Course	1.0	0	0	0	0	2.0
251	CFOC299M	Cryptography and Network Security	Online Course	1.0	0	0	0	0	3.0
252	CFOC300M	Introduction to Internet of Things	Online Course	1.0	0	0	0	0	3.0
253	CFOC301M	Computer Networks and Internet Protocol	Online Course	1.0	0	0	0	0	3.0
254	CFOC302M	Introduction to Industry 4.0 and Industrial Internet of Things	Online Course	1.0	0	0	0	0	3.0
255	CFOC303M	Computer Architecture	Online Course	1.0	0	0	0	0	3.0

		Open Elective							
256	CFOC304M	Programming, Data Structures And Algorithms Using Python	Online Course	1.0	0	0	0	0	2.0
257	CFOC305M	Introduction to Machine Learning	Online Course	1.0	0	0	0	0	3.0
258	CFOC306M	Social Networks	Online Course	1.0	0	0	0	0	3.0
259	CFOC307M	Foundations to Computer Systems Design	Online Course	1.0	0	0	0	0	3.0
260	CFOC308M	The Joy of Computing using Python	Online Course	1.0	0	0	0	0	3.0
261	CFOC309M	Discrete Mathematics	Online Course	1.0	0	0	0	0	3.0
262	CFOC310M	An Introduction to Artificial Intelligence	Online Course	1.0	0	0	0	0	3.0
263	CFOC311M	User-centric Computing for Human-Computer Interaction	Online Course	1.0	0	0	0	0	3.0
264	CFOC312M	Cloud Computing and Distributed Systems	Online Course	1.0	0	0	0	0	2.0
265	CFOC313M	Machine Learning	Online Course	1.0	0	0	0	0	2.0
266	CFOC314M	Modern Application Development	Online Course	1.0	0	0	0	0	3.0
267	CFOC315M	An Introduction To Programming Through C++	Online Course	1.0	0	0	0	0	3.0
268	CFOC316M	Design and Pedagogy of the Introductory Programming Course	Online Course	1.0	0	0	0	0	1.0
269	CFOC317M	Quantitative Methods in Chemistry	Online Course	1.0	0	0	0	0	3.0
270	CFOC318M	Basics in Inorganic Chemistry	Online Course	1.0	0	0	0	0	1.0
271	CFOC319M	Ultrafast Laser Spectroscopy	Online Course	1.0	0	0	0	0	3.0
272	CFOC320M	Transition Metal Organometallics in Catalysis and Biology	Online Course	1.0	0	0	0	0	3.0
273	CFOC321M	Essentials of Biomolecules : Nucleic Acids and Peptides	Online Course	1.0	0	0	0	0	3.0
274	CFOC322M	Fundamentals of Spectroscopy	Online Course	1.0	0	0	0	0	3.0
275	CFOC323M	Advanced Chemical Thermodynamics and Kinetics	Online Course	1.0	0	0	0	0	3.0
276	CFOC324M	Biochemistry	Online Course	1.0	0	0	0	0	3.0
277	CFOC325M	Organometallic Chemistry	Online Course	1.0	0	0	0	0	1.0
278	CFOC326M	Chemical Applications of Symmetry and Group Theory	Online Course	1.0	0	0	0	0	2.0
279	CFOC327M	Basic Thermodynamics : Classical and Statistical Approaches	Online Course	1.0	0	0	0	0	3.0
280	CFOC328M	Medicinal Chemistry	Online Course	1.0	0	0	0	0	3.0
281	CFOC329M	Design, Technology and Innovation	Online Course	1.0	0	0	0	0	2.0
282	CFOC330M	Geographic Information System	Online Course	1.0	0	0	0	0	3.0
283	CFOC331M	Product Design and Innovation	Online Course	1.0	0	0	0	0	1.0
284	CFOC332M	Fundamentals of Automotive Systems	Online Course	1.0	0	0	0	0	3.0
285	CFOC333M	Electronics Equipment Integration and Prototype Building	Online Course	1.0	0	0	0	0	2.0
286	CFOC334M	High Power Multilevel Converters-Analysis, Design and Operational Issues	Online Course	1.0	0	0	0	0	3.0
287	CFOC335M	Fuzzy Sets, Logic and Systems and Applications	Online Course	1.0	0	0	0	0	3.0
288	CFOC336M	Transmission Lines and Electromagnetic Waves	Online Course	1.0	0	0	0	0	3.0
289	CFOC337M	Digital IC Design	Online Course	1.0	0	0	0	0	3.0
290	CFOC338M	Signals and Systems	Online Course	1.0	0	0	0	0	3.0
291	CFOC339M	Power Management Integrated Circuits	Online Course	1.0	0	0	0	0	3.0

293 CFOC341M Microprocessors 294 CFOC342M Design and Sim Open Source To 295 CFOC343M Integrated Circu Applications 296 CFOC344M Electronic Syste 297 CFOC345M Principles of Sig 298 CFOC346M Principles of Col 299 CFOC347M Principles of Dig 300 CFOC348M Electric Vehicles 301 CFOC349M Nonlinear Adapt 302 CFOC350M Antennas 303 CFOC351M Multirate DSP 304 CFOC352M Control Enginee 305 CFOC353M Introduction to P 306 CFOC353M Microwave Integ 307 CFOC355M Analog IC Desig 308 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectrum 316 CFOC364M Basic Building B Design Principle Amplifiers	ulation of Power Conversion using pols its, MOSFETs, OP-Amps and their ms for Cancer Diagnosis nals and Systems mmunication Systems - I ital Communication s - Part 1 ive Control Photonics grated Circuits 2 in Electronics and Control	Online Course	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	3.0 3.0 1.0 3.0 3.0 3.0 3.0 3.0 1.0 1.0 3.0
294 CFOC342M Design and Sim Open Source To Open Source To Applications 296 CFOC343M Integrated Circu Applications 297 CFOC345M Principles of Sig 298 CFOC346M Principles of Coi 299 CFOC347M Principles of Dig 300 CFOC348M Electric Vehicles 301 CFOC349M Nonlinear Adapt 302 CFOC350M Antennas 303 CFOC351M Multirate DSP 304 CFOC352M Control Enginee 305 CFOC353M Introduction to F 306 CFOC353M Analog IC Desig 307 CFOC355M Analog Circuits 309 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC359M Analog Circuits 311 CFOC359M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectrum 316 CFOC364M Basic Building B Design Principle Amplifiers	ulation of Power Conversion using pols its, MOSFETs, OP-Amps and their ms for Cancer Diagnosis nals and Systems mmunication Systems - I ital Communication s - Part 1 ive Control Photonics grated Circuits 2 in Electronics and Control	Online Course	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	1.0 3.0 3.0 3.0 3.0 3.0 1.0 1.0
Open Source To Applications 296	ms for Cancer Diagnosis nals and Systems mmunication Systems - I ital Communication s - Part 1 ive Control Photonics grated Circuits 2 in Electronics and Control	Online Course	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	3.0 3.0 3.0 3.0 3.0 1.0 1.0
Applications 296	ms for Cancer Diagnosis nals and Systems mmunication Systems - I iital Communication s - Part 1 iive Control Photonics grated Circuits 2 in Electronics and Control	Online Course	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0	3.0 3.0 3.0 3.0 1.0 1.0
297 CFOC345M Principles of Sig 298 CFOC346M Principles of Cor 299 CFOC347M Principles of Dig 300 CFOC348M Electric Vehicles 301 CFOC349M Nonlinear Adapt 302 CFOC350M Antennas 303 CFOC351M Multirate DSP 304 CFOC352M Control Enginee 305 CFOC353M Introduction to P 306 CFOC353M Analog IC Desig 307 CFOC355M Analog Circuits 309 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectruit 316 CFOC364M Basic Building B Design Principle Amplifiers	mmunication Systems - I ital Communication s - Part 1 ive Control Photonics grated Circuits 2 in Electronics and Control	Online Course	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	3.0 3.0 3.0 1.0 1.0 3.0
298 CFOC346M Principles of Col 299 CFOC347M Principles of Dig 300 CFOC348M Electric Vehicles 301 CFOC349M Nonlinear Adapt 302 CFOC350M Antennas 303 CFOC351M Multirate DSP 304 CFOC352M Control Enginee 305 CFOC353M Introduction to P 306 CFOC353M Microwave Integ 307 CFOC355M Analog IC Desig 308 CFOC356M Analog Circuits 309 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectrum 316 CFOC364M Basic Building B Design Principle Amplifiers	ring Photonics grated Circuits 2 In Electronics and Control	Online Course	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0	0 0 0 0 0	3.0 3.0 1.0 1.0 3.0
299 CFOC347M Principles of Dig 300 CFOC348M Electric Vehicles 301 CFOC349M Nonlinear Adapt 302 CFOC350M Antennas 303 CFOC351M Multirate DSP 304 CFOC352M Control Enginee 305 CFOC352M Introduction to F 306 CFOC353M Microwave Integ 307 CFOC355M Analog IC Desig 308 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits and Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of Spread Spectrum 315 CFOC364M Basic Building Bound Design Principle Amplifiers Amplifiers	ital Communication s - Part 1 ive Control ring Photonics grated Circuits 2 in Electronics and Control	Online Course	1.0 1.0 1.0 1.0 1.0 1.0 1.0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	3.0 1.0 1.0 3.0
300 CFOC348M Electric Vehicles 301 CFOC349M Nonlinear Adapt 302 CFOC350M Antennas 303 CFOC351M Multirate DSP 304 CFOC352M Control Enginee 305 CFOC353M Introduction to P 306 CFOC354M Microwave Integ 307 CFOC355M Analog IC Desig 308 CFOC356M Analog Circuits 309 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectruit 316 CFOC364M Basic Building B Design Principle Amplifiers	ring Photonics grated Circuits 2 In Electronics and Control	Online Course	1.0 1.0 1.0 1.0 1.0 1.0	0 0 0 0 0	0 0 0 0	0 0 0	0 0 0	1.0 1.0 3.0
301 CFOC349M Nonlinear Adapt 302 CFOC350M Antennas 303 CFOC351M Multirate DSP 304 CFOC352M Control Enginee 305 CFOC352M Introduction to F 306 CFOC354M Microwave Integ 307 CFOC355M Analog IC Desig 308 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits and Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of Spread Spectrum 315 CFOC364M Basic Building Bousing Principle Amplifiers	ring Photonics grated Circuits 2	Online Course	1.0 1.0 1.0 1.0 1.0 1.0	0 0 0 0	0 0 0	0 0 0	0	1.0 3.0
302 CFOC350M Antennas 303 CFOC351M Multirate DSP 304 CFOC352M Control Enginee 305 CFOC353M Introduction to F 306 CFOC354M Microwave Integ 307 CFOC355M Analog IC Desig 308 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits sinulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectrum 316 CFOC364M Basic Building B Design Principle Amplifiers	ring Photonics grated Circuits 2 In	Online Course	1.0 1.0 1.0 1.0 1.0	0 0 0 0	0 0 0	0	0	3.0
303 CFOC351M Multirate DSP 304 CFOC352M Control Enginee 305 CFOC353M Introduction to P 306 CFOC354M Microwave Integ 307 CFOC355M Analog IC Desig 308 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC364M Basic Building B Design Principle Amplifiers	Photonics grated Circuits 2 In Electronics and Control	Online Course Online Course Online Course Online Course Online Course Online Course	1.0 1.0 1.0 1.0	0 0 0	0	0		
304 CFOC352M Control Enginee 305 CFOC353M Introduction to F 306 CFOC354M Microwave Integ 307 CFOC355M Analog IC Desig 308 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits a Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectruit 316 CFOC364M Basic Building B Design Principle Amplifiers	Photonics grated Circuits 2 In Electronics and Control	Online Course Online Course Online Course Online Course Online Course	1.0 1.0 1.0 1.0	0	0		0	3.0
305 CFOC353M Introduction to P 306 CFOC354M Microwave Integ 307 CFOC355M Analog IC Desig 308 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits a Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectrum 316 CFOC364M Basic Building B Design Principle Amplifiers	Photonics grated Circuits 2 In Electronics and Control	Online Course Online Course Online Course Online Course	1.0	0		0		
306 CFOC354M Microwave Integ 307 CFOC355M Analog IC Desig 308 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectruit 316 CFOC364M Basic Building B Design Principle Amplifiers	nn Electronics and Control	Online Course Online Course Online Course	1.0		0		0	3.0
307 CFOC355M Analog IC Desig 308 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits a Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectruit 316 CFOC364M Basic Building B Design Principle Amplifiers	n Electronics and Control	Online Course Online Course	1.0	0		0	0	3.0
308 CFOC356M Analog Circuits 309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits a Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectrum 316 CFOC364M Basic Building B Design Principle Amplifiers	Electronics and Control	Online Course			0	0	0	2.0
309 CFOC357M Advance Power 310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits : Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals o 315 CFOC363M Spread Spectrui 316 CFOC364M Basic Building B Design Principle Amplifiers				0	0	0	0	3.0
310 CFOC358M CMOS Digital VI 311 CFOC359M Analog Circuits a Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals o 315 CFOC363M Spread Spectrum 316 CFOC364M Basic Building B Design Principle Amplifiers		Online Course	1.0	0	0	0	0	3.0
311 CFOC359M Analog Circuits a Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic S 314 CFOC362M Fundamentals of Spread Spectrum S 315 CFOC363M Spread Spectrum S 316 CFOC364M Basic Building B Design Principle Amplifiers	_SI Design		1.0	0	0	0	0	2.0
Simulation 312 CFOC360M Discrete Time S 313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of Spread Spectrum 315 CFOC363M Spread Spectrum 316 CFOC364M Basic Building B Design Principle Amplifiers		Online Course	1.0	0	0	0	0	2.0
313 CFOC361M Digital Electronic 314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectrum 316 CFOC364M Basic Building B Design Principle Amplifiers	and Systems through SPICE	Online Course	1.0	0	0	0	0	3.0
314 CFOC362M Fundamentals of 315 CFOC363M Spread Spectrum 316 CFOC364M Basic Building B Design Principle Amplifiers	ignal Processing	Online Course	1.0	0	0	0	0	2.0
315 CFOC363M Spread Spectrum 316 CFOC364M Basic Building B Design Principle Amplifiers	Circuits	Online Course	1.0	0	0	0	0	3.0
316 CFOC364M Basic Building B Design Principle Amplifiers	f MIMO Wireless Communication	Online Course	1.0	0	0	0	0	2.0
Design Principle Amplifiers	m Communications and Jamming	Online Course	1.0	0	0	0	0	3.0
	locks of Microwave Engineering & s of RF and Microware filters and	Online Course	1.0	0	0	0	0	2.0
317 CFOC365M Evolution of Air	Interface towards 5G	Online Course	1.0	0	0	0	0	2.0
318 CFOC366M Architectural De	sign of Digital Integrated Circuits	Online Course	1.0	0	0	0	0	3.0
319 CFOC367M Electrical Machin	nes - II	Online Course	1.0	0	0	0	0	3.0
320 CFOC368M Medical Image A	nalysis	Online Course	1.0	0	0	0	0	1.0
321 CFOC369M Biomedical Sign	al Processing	Online Course	1.0	0	0	0	0	3.0
322 CFOC370M Microprocessors	s And Microcontrollers	Online Course	1.0	0	0	0	0	3.0
323 CFOC371M Recent Advance	es in Transmission Insulator	Online Course	1.0	0	0	0	0	1.0
324 CFOC372M VLSI Signal Pro	cessing	Online Course	1.0	0	0	0	0	2.0
325 CFOC373M Analog Electron	c Circuits	Online Course	1.0	0	0	0	0	3.0
326 CFOC374M Network Analysi	s	Online Course	1.0	0	0	0	0	3.0
327 CFOC375M Optical Enginee	ring	Online Course	1.0	0	0	0	0	3.0
328 CFOC376M Mathematical M Processing	ethods and Techniques in Signal	Online Course	1.0	0	0	0	0	3.0
329 CFOC377M A brief introducti			1.0	0	0	0	0	1.0
330 CFOC378M Statistical Signa Report On: 15-06-2025 10:01:21 PM	ion of Micro – Sensors	Online Course	1.0			1	1	

		Open Elective							
331	CFOC379M	Nonlinear System Analysis	Online Course	1.0	0	0	0	0	3.0
332	CFOC380M	Ethics in Engineering Practice	Online Course	1.0	0	0	0	0	2.0
333	CFOC381M	Introduction to Research	Online Course	1.0	0	0	0	0	2.0
334	CFOC382M	Matlab Programming for Numerical Computation	Online Course	1.0	0	0	0	0	2.0
335	CFOC383M	Roadmap for Patent Creation	Online Course	1.0	0	0	0	0	2.0
336	CFOC384M	Entrepreneurship Essentials	Online Course	1.0	0	0	0	0	3.0
337	CFOC385M	Fuzzy Logic and Neural Networks	Online Course	1.0	0	0	0	0	2.0
338	CFOC386M	Microeconomics : Theory & Applications	Online Course	1.0	0	0	0	0	3.0
339	CFOC387M	Introduction to Environmental Economics	Online Course	1.0	0	0	0	0	3.0
340	CFOC388M	Energy Resources, Economics and Environment	Online Course	1.0	0	0	0	0	3.0
341	CFOC389M	Literary Criticism (From Plato to Leavis)	Online Course	1.0	0	0	0	0	3.0
342	CFOC390M	Twentieth Century Fiction	Online Course	1.0	0	0	0	0	3.0
343	CFOC391M	Effective Writing	Online Course	1.0	0	0	0	0	1.0
344	CFOC392M	Strategic Trade and Protectionism - Theories and Empirics	Online Course	1.0	0	0	0	0	2.0
345	CFOC393M	Introduction to Cultural Studies	Online Course	1.0	0	0	0	0	3.0
346	CFOC394M	Introduction to Basic Spoken Sanskrit	Online Course	1.0	0	0	0	0	1.0
347	CFOC395M	Speaking Effectively	Online Course	1.0	0	0	0	0	2.0
348	CFOC396M	Soft Skill Development	Online Course	1.0	0	0	0	0	2.0
349	CFOC397M	Intellectual Property	Online Course	1.0	0	0	0	0	3.0
350	CFOC398M	English Language for Competitive Exams	Online Course	1.0	0	0	0	0	3.0
351	CFOC399M	English Literature for Competitive Exams	Online Course	1.0	0	0	0	0	2.0
352	CFOC400M	Language and Mind	Online Course	1.0	0	0	0	0	2.0
353	CFOC401M	The Nineteenth - Century English Novel	Online Course	1.0	0	0	0	0	3.0
354	CFOC402M	Introduction to World Literature	Online Course	1.0	0	0	0	0	3.0
355	CFOC403M	Patent Drafting for Beginners	Online Course	1.0	0	0	0	0	1.0
356	CFOC404M	Patent Law for Engineers and Scientists	Online Course	1.0	0	0	0	0	3.0
357	CFOC405M	Economic Growth & Development	Online Course	1.0	0	0	0	0	2.0
358	CFOC406M	Human Behaviour	Online Course	1.0	0	0	0	0	2.0
359	CFOC407M	Introduction to Modern Indian Political Thought	Online Course	1.0	0	0	0	0	3.0
360	CFOC408M	English Literature of the Romantic Period, 1798 - 1832	Online Course	1.0	0	0	0	0	2.0
361	CFOC409M	Literature, Culture and Media	Online Course	1.0	0	0	0	0	3.0
362	CFOC410M	Introduction to Brain & Behaviour	Online Course	1.0	0	0	0	0	2.0
363	CFOC411M	Modern Indian Writing in Translation	Online Course	1.0	0	0	0	0	3.0
364	CFOC412M	Introduction to Political Ideologies : Contexts, Ideas, and Practices	Online Course	1.0	0	0	0	0	3.0
365	CFOC413M	Indian Business History	Online Course	1.0	0	0	0	0	2.0
366	CFOC414M	German - II	Online Course	1.0	0	0	0	0	3.0
367	CFOC415M	German - I	Online Course	1.0	0	0	0	0	3.0
368	CFOC416M	Feminism : Concepts and Theories	Online Course	1.0	0	0	0	0	3.0
369	CFOC417M	An Introduction to Smooth Manifolds	Online Course	1.0	0	0	0	0	3.0
370	CFOC418M	Measure Theory	Online Course	1.0	0	0	0	0	3.0
371	CFOC419M	Basic Real Analysis	Online Course	1.0	0	0	0	0	3.0

		Open Elective							
372	CFOC420M	Probabilistic Methods in PDE	Online Course	1.0	0	0	0	0	3.0
373	CFOC421M	Graph Theory	Online Course	1.0	0	0	0	0	2.0
374	CFOC422M	Transform Calculus and its applications in Differential Equations	Online Course	1.0	0	0	0	0	3.0
375	CFOC423M	Integral and Vector Calculus	Online Course	1.0	0	0	0	0	3.0
376	CFOC424M	Basic Linear Algebra	Online Course	1.0	0	0	0	0	2.0
377	CFOC425M	Introduction to Rings And Fields	Online Course	1.0	0	0	0	0	2.0
378	CFOC426M	Numerical Methods : Finite Difference Approach	Online Course	1.0	0	0	0	0	1.0
379	CFOC427M	Numerical Linear Algebra	Online Course	1.0	0	0	0	0	3.0
380	CFOC428M	Ordinary and Partial Differential Equations and Applications	Online Course	1.0	0	0	0	0	3.0
381	CFOC429M	Advanced Engineering Mathematics	Online Course	1.0	0	0	0	0	3.0
382	CFOC430M	Mathematical Methods and its Applications	Online Course	1.0	0	0	0	0	3.0
383	CFOC431M	Multivariable Calculus	Online Course	1.0	0	0	0	0	2.0
384	CFOC432M	Chaotic Dynamical System	Online Course	1.0	0	0	0	0	3.0
385	CFOC433M	Engineering Mathematics II	Online Course	1.0	0	0	0	0	3.0
386	CFOC434M	Advanced Probability Theory	Online Course	1.0	0	0	0	0	3.0
387	CFOC435M	Statistical Inference	Online Course	1.0	0	0	0	0	2.0
388	CFOC436M	Introduction to Algebraic Geometry and Commutative Algebra	Online Course	1.0	0	0	0	0	3.0
389	CFOC437M	Linear Algebra	Online Course	1.0	0	0	0	0	3.0
390	CFOC438M	Introduction to Probability and Statistics	Online Course	1.0	0	0	0	0	1.0
391	CFOC439M	Descriptive Statistics with R Software	Online Course	1.0	0	0	0	0	2.0
392	CFOC440M	Engineering Mechanics - Statics and Dynamics	Online Course	1.0	0	0	0	0	2.0
393	CFOC441M	Experimental Stress Analysis	Online Course	1.0	0	0	0	0	3.0
394	CFOC442M	Robotics and Control : Theory and Practice	Online Course	1.0	0	0	0	0	2.0
395	CFOC443M	Computational Fluid Dynamics for Incompressible Flows	Online Course	1.0	0	0	0	0	3.0
396	CFOC444M	Experimental Methods in Fluid Mechanics	Online Course	1.0	0	0	0	0	3.0
397	CFOC445M	Foundations of Computational Materials Modelling	Online Course	1.0	0	0	0	0	3.0
398	CFOC446M	Acoustic Materials and Metamaterials	Online Course	1.0	0	0	0	0	2.0
399	CFOC447M	Power Plant Engineering	Online Course	1.0	0	0	0	0	2.0
400	CFOC448M	Applied Ergonomics	Online Course	1.0	0	0	0	0	3.0
401	CFOC449M	Product Design and Manufacturing	Online Course	1.0	0	0	0	0	3.0
402	CFOC450M	Manufacturing Process Technology I & II	Online Course	1.0	0	0	0	0	3.0
403	CFOC451M	Introduction To Mechanical Micro Machining	Online Course	1.0	0	0	0	0	3.0
404	CFOC452M	Non Traditional Abrasive Machining Processes Ultrasonic, Abrasive Jet and Abrasive Water Jet Machining	Online Course	1.0	0	0	0	0	1.0
405	CFOC453M	Gear And Gear Unit Design : Theory And Practice	Online Course	1.0	0	0	0	0	2.0
406	CFOC454M	Conduction and Convection Heat Transfer	Online Course	1.0	0	0	0	0	3.0
407	CFOC455M	Laws of Thermodynamics	Online Course	1.0	0	0	0	0	1.0
408	CFOC456M	Kinematics of Mechanisms and Machines	Online Course	1.0	0	0	0	0	2.0
409	CFOC457M	Introduction To Fluid Mechanics	Online Course	1.0	0	0	0	0	3.0
410 Report On	CFOC458M : 15-06-2025 10:01	Fundamental of Welding Science and Technology :21 PM	Online Course	1.0	0	0	0 P	0 age 13	2.0 of 21

		Open Elective							
411	CFOC459M	Introduction to Abrasive Machining and Finishing Processes	Online Course	1.0	0	0	0	0	2.0
412	CFOC460M	Automatic Control	Online Course	1.0	0	0	0	0	2.0
413	CFOC461M	Inspection and Quality Control in Manufacturing	Online Course	1.0	0	0	0	0	1.0
414	CFOC462M	Diffusion in Multicomponent Solids	Online Course	1.0	0	0	0	0	3.0
415	CFOC463M	Processing of Polymers and Polymer Composites	Online Course	1.0	0	0	0	0	2.0
416	CFOC464M	Operations Management	Online Course	1.0	0	0	0	0	3.0
417	CFOC465M	Convective Heat Transfer	Online Course	1.0	0	0	0	0	1.0
418	CFOC466M	Two phase flow and heat transfer	Online Course	1.0	0	0	0	0	1.0
419	CFOC467M	Steam and Gas Power Systems	Online Course	1.0	0	0	0	0	2.0
420	CFOC468M	Principles of Casting Technology	Online Course	1.0	0	0	0	0	2.0
421	CFOC469M	Financial Mathematics	Online Course	1.0	0	0	0	0	3.0
422	CFOC470M	Modelling and Simulation of Dynamic Systems	Online Course	1.0	0	0	0	0	2.0
423	CFOC471M	Fundamentals of combustion for propulsion	Online Course	1.0	0	0	0	0	2.0
424	CFOC472M	Industrial Automation And Control	Online Course	1.0	0	0	0	0	3.0
425	CFOC473M	Fundamentals of Nuclear Power Generation	Online Course	1.0	0	0	0	0	3.0
426	CFOC474M	Mechanics of Machining	Online Course	1.0	0	0	0	0	2.0
427	CFOC475M	IC Engines and Gas Turbines	Online Course	1.0	0	0	0	0	3.0
428	CFOC476M	Principles of Industrial Engineering	Online Course	1.0	0	0	0	0	3.0
429	CFOC477M	Computer Integrated Manufacturing	Online Course	1.0	0	0	0	0	3.0
430	CFOC478M	Machining Science	Online Course	1.0	0	0	0	0	1.0
431	CFOC479M	Introduction to Stochastic Processes	Online Course	1.0	0	0	0	0	3.0
432	CFOC480M	Introduction to System Dynamics Modeling	Online Course	1.0	0	0	0	0	2.0
433	CFOC481M	Management of New Products and Services	Online Course	1.0	0	0	0	0	1.0
434	CFOC482M	Integrated Marketing Management	Online Course	1.0	0	0	0	0	2.0
435	CFOC483M	Simulation of Business Systems: An Applied Approach	Online Course	1.0	0	0	0	0	2.0
436	CFOC484M	Production and Operation Management	Online Course	1.0	0	0	0	0	3.0
437	CFOC485M	Services Marketing : Integrating People, Technology, Strategy	Online Course	1.0	0	0	0	0	2.0
438	CFOC486M	Managerial Skills for Interpersonal Dynamics	Online Course	1.0	0	0	0	0	3.0
439	CFOC487M	Financial Institutions and Markets	Online Course	1.0	0	0	0	0	3.0
440	CFOC488M	Business Analytics For Management Decision	Online Course	1.0	0	0	0	0	3.0
441	CFOC489M	Services Marketing : A Practical Approach	Online Course	1.0	0	0	0	0	1.0
442	CFOC490M	Sales and Distribution Management	Online Course	1.0	0	0	0	0	2.0
443	CFOC491M	Principles of Human Resource Management	Online Course	1.0	0	0	0	0	2.0
444	CFOC492M	Managing change in organizations	Online Course	1.0	0	0	0	0	2.0
445	CFOC493M	Management of Inventory Systems	Online Course	1.0	0	0	0	0	3.0
446	CFOC494M	Quality Design And Control	Online Course	1.0	0	0	0	0	3.0
447	CFOC495M	Foundation Course in Managerial Economics	Online Course	1.0	0	0	0	0	2.0
448	CFOC496M	Engineering Econometrics	Online Course	1.0	0	0	0	0	3.0
449	CFOC497M	Financial Statement Analysis and Reporting	Online Course	1.0	0	0	0	0	3.0
450	CFOC498M	Business Statistics	Online Course	1.0	0	0	0	0	3.0
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		Open Elective							
452	CFOC500M	Marketing Research and Analysis - II	Online Course	1.0	0	0	0	0	3.0
453	CFOC501M	Infrastructure Planning and Managements	Online Course	1.0	0	0	0	0	3.0
454	CFOC502M	Modelling and Analytics for Supply Chain Management	Online Course	1.0	0	0	0	0	3.0
455	CFOC503M	Marketing Analytics	Online Course	1.0	0	0	0	0	3.0
456	CFOC504M	Financial Management For Managers	Online Course	1.0	0	0	0	0	3.0
457	CFOC505M	Management of Commercial Banking	Online Course	1.0	0	0	0	0	3.0
458	CFOC506M	Behavioral and Personal Finance	Online Course	1.0	0	0	0	0	2.0
459	CFOC507M	Total Quality Management - 1	Online Course	1.0	0	0	0	0	2.0
460	CFOC508M	Entrepreneurship	Online Course	1.0	0	0	0	0	3.0
461	CFOC509M	Modeling of Tundish Steelmaking Process in Continuous Casting	Online Course	1.0	0	0	0	0	2.0
462	CFOC510M	Fundamentals of Electronic Materials and Devices	Online Course	1.0	0	0	0	0	2.0
463	CFOC511M	Introduction to Materials Science and Engineering	Online Course	1.0	0	0	0	0	3.0
464	CFOC512M	Corrosion - Part I	Online Course	1.0	0	0	0	0	2.0
465	CFOC513M	Solar Photovoltaics: Principles, Technologies and Materials	Online Course	1.0	0	0	0	0	2.0
466	CFOC514M	Welding Processes	Online Course	1.0	0	0	0	0	3.0
467	CFOC515M	Theory and Practice of Non Destructive Testing	Online Course	1.0	0	0	0	0	2.0
468	CFOC516M	Steel Quality: Role of Secondary Refining and Continuous Casting	Online Course	1.0	0	0	0	0	3.0
469	CFOC517M	Materials Science and Engineering	Online Course	1.0	0	0	0	0	2.0
470	CFOC518M	Surface Engineering of Nanomaterials	Online Course	1.0	0	0	0	0	2.0
471	CFOC519M	Dealing with Materials Data: Collection, Analysis and Interpretation	Online Course	1.0	0	0	0	0	3.0
472	CFOC520M	Friction and Wear of Materials: Principle and Case Studies	Online Course	1.0	0	0	0	0	2.0
473	CFOC521M	Material Characterization	Online Course	1.0	0	0	0	0	3.0
474	CFOC522M	Offshore Structures Under Special Environmental Loads Including Fire Resistance	Online Course	1.0	0	0	0	0	3.0
475	CFOC523M	Physics of Biological Systems	Online Course	1.0	0	0	0	0	3.0
476	CFOC524M	Group Theory methods in Physics	Online Course	1.0	0	0	0	0	3.0
477	CFOC525M	Experimental Physics - II	Online Course	1.0	0	0	0	0	3.0
478	CFOC526M	Quantum Mechanics I	Online Course	1.0	0	0	0	0	3.0
479	CFOC527M	A Brief Course on Superconductivity	Online Course	1.0	0	0	0	0	1.0
480	CFOC528M	Fiber Optics	Online Course	1.0	0	0	0	0	2.0
481	CFOC529M	Electromagnetism	Online Course	1.0	0	0	0	0	3.0
482	CFOC530M	Experimental Physics III	Online Course	1.0	0	0	0	0	3.0
483	CFOC531M	Electronic Theory of Solids	Online Course	1.0	0	0	0	0	3.0
484	CFOC532M	Introduction to Atmospheric and Space Sciences	Online Course	1.0	0	0	0	0	3.0
485	CFOC533M	Optical Sensors	Online Course	1.0	0	0	0	0	1.0
486	CFOC534M	Evaluation of Textiles Materials	Online Course	1.0	0	0	0	0	3.0
487	CFOC535M	Advanced Textile Printing Technology	Online Course	1.0	0	0	0	0	2.0
488	CFOC536M	Textured Yarn Technology	Online Course	1.0	0	0	0	0	3.0
489	CFOC537M	Theory of Yarn Structure	Online Course	1.0	0	0	0	0	3.0

		Open Elective							
490	CFOC538M	Testing of Functional and Technical Textiles	Online Course	1.0	0	0	0	0	2.0
491	CFOC539M	Applied Optimization for Wireless, Machine Learning, Big Data	Online Course	1.0	0	0	0	0	3.0
492	CFOC540M	Deep Learning for Computer Vision	Online Course	1.0	0	0	0	0	3.0
493	CFOC541M	Deep Learning for Visual Computing	Online Course	1.0	0	0	0	0	3.0
494	CFOC542M	Principles of Compiler Design	Online Course	1.0	0	0	0	0	3.0
495	CFOC543M	International Business	Online Course	1.0	0	0	0	0	3.0
496	CFOC544M	Learning Analytics Tools	Online Course	1.0	0	0	0	0	3.0
497	CFOC545M	Advanced IoT Applications	Online Course	1.0	0	0	0	0	2.0
498	CFOC546M	Algorithms for Big Data	Online Course	1.0	0	0	0	0	2.0
499	CFOC547M	Decision Making Using Financial Accounting	Online Course	1.0	0	0	0	0	2.0
500	CFOC548M	Introduction on Intellectual Property to Engineers and Technologists	Online Course	1.0	0	0	0	0	2.0
501	CFOC549M	Introduction to Quantum Computing: Quantum Algorithms and Qiskit	Online Course	1.0	0	0	0	0	1.0
502	CFOC550M	Numerical Analysis	Online Course	1.0	0	0	0	0	4.0
503	CFOC551M	Quantum Technology and Quantum Phenomena in Macroscopic Systems	Online Course	1.0	0	0	0	0	3.0
504	CFOC552M	Electrochemical Impedance Spectroscopy	Online Course	1.0	0	0	0	0	3.0
505	CFOC553M	Carbon Materials and Manufacturing	Online Course	1.0	0	0	0	0	3.0
506	CFOC554M	Electronic Packaging and Manufacturing	Online Course	1.0	0	0	0	0	2.0
507	CFOC555M	Finite Element Method	Online Course	1.0	0	0	0	0	3.0
508	CFOC556M	Physics of Materials	Online Course	1.0	0	0	0	0	3.0
509	CFOC557M	X-ray Crystallography and Diffraction	Online Course	1.0	0	0	0	0	3.0
510	CFOC558M	Solar Photovoltaics Fundamentals, Technology and Applications	Online Course	1.0	0	0	0	0	2.0
511	CFOC559M	Design of Photovoltaic Systems	Online Course	1.0	0	0	0	0	3.0
512	CFOC560M	Fundamentals of Micro and Nanofabrication	Online Course	1.0	0	0	0	0	3.0
513	CFOC561M	Biomedical Nanotechnology	Online Course	1.0	0	0	0	0	1.0
514	CFOC562M	Design and Analysis of VLSI Subsystems	Online Course	1.0	0	0	0	0	3.0
515	CFOC563M	Physics of Nanoscale Devices	Online Course	1.0	0	0	0	0	3.0
516	CFOC564M	Photonic Integrated Circuit	Online Course	1.0	0	0	0	0	3.0
517	CFOC565M	Technologies for Clean and Renewable Energy Production	Online Course	1.0	0	0	0	0	2.0
518	CFOC566M	Elements of Solar Energy Conversion	Online Course	1.0	0	0	0	0	3.0
519	CFOC567M	Physics of Renewable Energy Systems	Online Course	1.0	0	0	0	0	3.0
520	CFOC568M	Structural Analysis of Nanomaterials	Online Course	1.0	0	0	0	0	1.0
521	CFOC569M	Computational Approach to Materials Science and Engineering	Online Course	1.0	0	0	0	0	2.0
522	CFOC570M	Public Speaking	Online Course	1.0	0	0	0	0	3.0
523	CFOC571M	Introduction To CFD	Online Course	1.0	0	0	0	0	3.0
524	CFOC572M	Dairy And Food Process And Products Technology	Online Course	1.0	0	0	0	0	3.0
525	CFOC573M	Fundamentals Of Food Process Engineering	Online Course	1.0	0	0	0	0	3.0
526	CFOC574M	Micro Irrigation Engineering	Online Course	1.0	0	0	0	0	3.0
527	CFOC575M	Wildlife Ecology	Online Course	1.0	0	0	0	0	3.0

		Open Elective							
528	CFOC576M	Integrated Waste Management For A Smart City	Online Course	1.0	0	0	0	0	3.0
529	CFOC577M	Introduction To Multimodal Urban Transportation Systems (MUTS)	Online Course	1.0	0	0	0	0	3.0
530	CFOC578M	Wastewater Treatment And Recycling	Online Course	1.0	0	0	0	0	3.0
531	CFOC579M	Structural Geology	Online Course	1.0	0	0	0	0	3.0
532	CFOC580M	Real-Time Systems	Online Course	1.0	0	0	0	0	3.0
533	CFOC581M	Algorithmic Game Theory	Online Course	1.0	0	0	0	0	3.0
534	CFOC582M	Computational Number Theory and Algebra	Online Course	1.0	0	0	0	0	3.0
535	CFOC583M	Power System Protection	Online Course	1.0	0	0	0	0	3.0
536	CFOC585M	Great Experiments In Psychology	Online Course	1.0	0	0	0	0	1.0
537	CFOC586M	Spoken Sanskrit: Basic and Intermediate Levels	Online Course	1.0	0	0	0	0	3.0
538	CFOC587M	Economics of Banking and Finance Markets	Online Course	1.0	0	0	0	0	3.0
539	CFOC588M	Concepts Of Thermodynamics	Online Course	1.0	0	0	0	0	3.0
540	CFOC589M	Engineering Drawing And Computer Graphics	Online Course	1.0	0	0	0	0	3.0
541	CFOC590M	Management Information System	Online Course	1.0	0	0	0	0	3.0
542	CFOC591M	Principles Of Management	Online Course	1.0	0	0	0	0	3.0
543	CFOC592M	Stress Management	Online Course	1.0	0	0	0	0	1.0
544	CFOC593M	Corporate Finance	Online Course	1.0	0	0	0	0	3.0
545	CFOC594M	Customer Relationship Management	Online Course	1.0	0	0	0	0	2.0
546	CFOC595M	Urbanization and Environment	Online Course	1.0	0	0	0	0	2.0
547	CFOC596M	Digital Speech Processing	Online Course	1.0	0	0	0	0	2.0
548	CFOC597M	Globalization And Culture	Online Course	1.0	0	0	0	0	2.0
549	CFOC598M	Elements of Visual Representation	Online Course	1.0	0	0	0	0	2.0
550	CFOC599M	Leadership and Team Effectiveness	Online Course	1.0	0	0	0	0	3.0
551	CFOC600M	Data Analysis for Biologists	Online Course	1.0	0	0	0	0	2.0
552	CFOC601M	Advance Course in Social Psychology	Online Course	1.0	0	0	0	0	3.0
553	CFOC602M	Product and Brand Management	Online Course	1.0	0	0	0	0	3.0
554	CFOC603M	Quantitative Investment Management	Online Course	1.0	0	0	0	0	2.0
555	CFOC604M	Entrepreneurship and IP Strategy	Online Course	1.0	0	0	0	0	2.0
556	CFOC605M	Sensor Technologies: Physics, Fabrication, and Circuits	Online Course	1.0	0	0	0	0	2.0
557	CFOC606M	Ecology and Environment	Online Course	1.0	0	0	0	0	2.0
558	CFOC607M	Analog VLSI Design	Online Course	1.0	0	0	0	0	1.0
559	CFOC608M	The Science of Happiness and Wellbeing	Online Course	1.0	0	0	0	0	2.0
560	CFOC609M	Introduction to Basic Spoken Sanskrit and Intermediate Level of Spoken Sanskrit	Online Course	1.0	0	0	0	0	3.0
561	CFOC610M	Advanced Algorithmic Trading and Portfolio Management	Online Course	1.0	0	0	0	0	2.0
562	CFOC611M	Advanced Quantum Mechanics with Applications	Online Course	1.0	0	0	0	0	2.0
563	CFOC612M	Business Fundamentals for Entrepreneurs	Online Course	1.0	0	0	0	0	1.0
564	CFOC613M	C-Based VLSI Design	Online Course	1.0	0	0	0	0	3.0
565	CFOC614M	The Popular Gothic Novel	Online Course	1.0	0	0	0	0	3.0
566	CFOC615M	Introduction To Biomimicry	Online Course	1.0	0	0	0	0	2.0
567	CFOC616M	Applied Linguistics	Online Course	1.0	0	0	0	0	3.0

		Open Elective							
568	CFOC617M	Gender and Literature	Online Course	1.0	0	0	0	0	2.0
569	CFOC618M	Developing Soft Skills and Personality	Online Course	1.0	0	0	0	0	2.0
570	CFOC619M	Corporate Finance_2	Online Course	1.0	0	0	0	0	2.0
571	CFOC620M	Architectural Acoustics	Online Course	1.0	0	0	0	0	2.0
572	CFOC621M	An Introduction to Indian Literary Theory	Online Course	1.0	0	0	0	0	2.0
573	CFOC622M	Indian Art: Materials, Techniques and Artistic Practices	Online Course	1.0	0	0	0	0	3.0
574	CFOC623M	Space Flight Mechanics	Online Course	1.0	0	0	0	0	3.0
575	CFOC624M	Industrial Safety Engineering	Online Course	1.0	0	0	0	0	1.0
576	CFOC625M	Advanced Thermodynamics and Combustion	Online Course	1.0	0	0	0	0	3.0
577	CFOC626M	Postmodernism in Literature	Online Course	1.0	0	0	0	0	2.0
578	CFOC627M	Natural Language Processing	Online Course	1.0	0	0	0	0	3.0
579	CFOC628M	Appreciating Carnatic Music	Online Course	1.0	0	0	0	0	2.0
580	CFOC629M	Body language:Key to Professional Success	Online Course	1.0	0	0	0	0	1.0
581	CFOC630M	Business To Business Marketing	Online Course	1.0	0	0	0	0	3.0
582	CFOC631M	Conservation Geography	Online Course	1.0	0	0	0	0	3.0
583	CFOC632M	Enclosure design of Electronics equipment	Online Course	1.0	0	0	0	0	3.0
584	CFOC633M	Environment And Development	Online Course	1.0	0	0	0	0	3.0
585	CFOC634M	Introduction to Aerospace Engineering	Online Course	1.0	0	0	0	0	3.0
586	CFOC635M	Operations And Supply Chain Management	Online Course	1.0	0	0	0	0	3.0
587	CFOC636M	Programming in modern c++	Online Course	1.0	0	0	0	0	3.0
588	CFOC637M	Psychology Of Learning	Online Course	1.0	0	0	0	0	3.0
589	CFOC638M	Urban Utilities Planning : Water Supply, Sanitation And Drainage	Online Course	1.0	0	0	0	0	3.0
590	CFOC639M	Research Methodology	Online Course	1.0	0	0	0	0	2.0
591	CFOC640M	Communication Networks	Online Course	1.0	0	0	0	0	3.0
592	CFOC641M	Aircraft Design	Online Course	1.0	0	0	0	0	3.0
593	CFOC642M	Conservation Economics	Online Course	1.0	0	0	0	0	3.0
594	CFOC643M	Cryogenic Hydrogen Technology	Online Course	1.0	0	0	0	0	2.0
595	CFOC644M	Explosions and Safety	Online Course	1.0	0	0	0	0	3.0
596	CFOC645M	Financial Accounting	Online Course	1.0	0	0	0	0	2.0
597	CFOC646M	Philosophy and Critical Thinking	Online Course	1.0	0	0	0	0	3.0
598	CFOC647M	Air pollution and Control	Online Course	1.0	0	0	0	0	3.0
599	CFOC648M	Centre-State Relations in India	Online Course	1.0	0	0	0	0	2.0
600	CFOC649M	Energy Resources, Economics, and Sustainability	Online Course	1.0	0	0	0	0	2.0
601	CFOC650M	Human Physiology	Online Course	1.0	0	0	0	0	3.0
602	CFOC651M	Psychology of Stress, Health and Well-being	Online Course	1.0	0	0	0	0	3.0
603	CFOC652M	Signal Processing Techniques and its Applications	Online Course	1.0	0	0	0	0	3.0
604	CFOC653M	Strength & Conditioning for the Indian Population	Online Course	1.0	0	0	0	0	3.0
605	CFOC654M	The Evolution of the Earth and Life	Online Course	1.0	0	0	0	0	3.0
606	CFOC655M	United Nations Sustainable Development Goals (UN SDGs)	Online Course	1.0	0	0	0	0	3.0
607	CFOC656M	Usability Engineering	Online Course	1.0	0	0	0	0	3.0
608	CFOC658M	Design Practice - II	Online Course	1.0	0	0	0	0	2.0

	Open Elective							
609	Essentials of Data Science With R Software - 1: Probability and Statistical Inference	Online Course	1.0	0	0	0	0	3.0
610	Applied Linear Algebra in Al and ML	Online Course	1.0	0	0	0	0	3.0

Non-graded Core Requirement									
sl.no	Course Code	Course Title	Course Type	Ver	L	т	Р	J	Credits
				sio					
				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	BCSE420L	Sensors, Actuators and Signal Conditioning	Theory Only	1.0	2	0	0	0	2.0
2	BCSE420P	Sensors, Actuators and Signal Conditioning Lab	Lab Only	1.0	0	0	2	0	1.0
3	BCSE421L	Robotics: Kinematics, Dynamics and Motion Control	Theory Only	1.0	3	0	0	0	3.0
4	BCSE422L	Robot Modeling and Simulation	Theory Only	1.0	2	0	0	0	2.0
5	BCSE422P	Robot Modeling and Simulation Lab	Lab Only	1.0	0	0	2	0	1.0
6	BCSE423L	Robot Programming	Theory Only	1.0	2	0	0	0	2.0
7	BCSE423P	Robot Programming Lab	Lab Only	1.0	0	0	2	0	1.0
8	BCSE424L	Machine Learning for Robotics	Theory Only	1.0	2	0	0	0	2.0
9	BCSE424P	Machine Learning for Robotics Lab	Lab Only	1.0	0	0	2	0	1.0
10	BCSE425L	Robotic Perception	Theory Only	1.0	3	0	0	0	3.0
11	BCSE425P	Robotic Perception Lab	Lab Only	1.0	0	0	2	0	1.0
12	BCSE426L	Robotic Process Automation	Theory Only	1.0	2	0	0	0	2.0
13	BCSE426P	Robotic Process Automation Lab	Lab Only	1.0	0	0	2	0	1.0
14	BCSE427L	Cognitive Robotics	Theory Only	1.0	2	0	0	0	2.0
15	BCSE427P	Cognitive Robotics Lab	Lab Only	1.0	0	0	2	0	1.0
16	BCSE428L	Autonomous Drones	Theory Only	1.0	2	0	0	0	2.0
17	BCSE428P	Autonomous Drones Lab	Lab Only	1.0	0	0	2	0	1.0

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Specialization Elective									
18	BCSE432E	Reinforcement Learning	Embedded	1.0	3	0	2	0	4.0
			Theory and Lab						

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