COIMBATORE INSTITUTE OF TECHNOLOGY

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NAAC CRITERION 1 – Curricular Aspects

1.3.2 – Revised Unique Certificate /Value Added Courses

S.No.	Name of the course	Course Code	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
1	Advanced Calculus For Engineers	noc23-ma86	✔				
2	Advanced Computer Architecture	noc22-cs10			✔		
3	Advanced Concepts in Fluid Mechanics	noc19-me53					✔
4	Advanced Concrete Technology	noc20-ce45				✔	
5	Advanced Machining Processes	noc22-me119		✔	✔		
6	Advanced Robotics	noc24-me24	✔	✔			
7	Advanced Thermodynamics and Molecular Simulations	noc24-ch02	✔				
8	Affective Computing	noc24-cs12	✔				
9	Air pollution and Control	noc24-ce03	✔				
10	Aircraft Propulsion	noc23-me103	✔				
11	An Introduction to Artificial Intelligence	noc22-cs56			✔		
12	An Introduction to Materials Nature and Properties Part 1 Structure of Materials	noc19-mm14					✔
13	An Introduction to Programming Through C++	noc22-cs42			✔		
14	Applied Ergonomics	noc22-me32			✔		
15	Applied Natural Language Processing	noc20-cs87				✔	
16	Applied Seismology for Engineers	noc24-ce05	✔				
17	Artificial Intelligence (AI) for Investments	noc24-mg06	✔				
18	Aspen PlusâˆšÃ‡Â¬Ã† simulation software - a basic course for beginners	noc23-ch34	✔	✔			
19	Automation in Manufacturing	noc22-me123	✔	✔			
20	Basic Principles and Calculations in Chemical Engineering	noc20-ch20				✔	
21	Basics in Inorganic Chemistry	noc20-cy03				✔	
22	Big Data Computing	noc20-cs92	✔		✔	✔	
23	Blockchain and its Applications	noc22-cs44	✔		✔		

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S.No.	Name of the course	Course Code	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
24	Brief Introduction To Psychology	noc23-hs117	✔				
25	Business analytics and data mining Modeling using R	noc23-mg14		✔			
26	Business Analytics For Management Decision	noc24-mg09	✔				
27	Business Forecasting	noc24-mg66	✔				
28	Business Intelligence & Analytics	noc24-cs65	✔				
29	C Programming and Assembly Language	noc19-cs44					✔
30	Carbon Materials and Manufacturing	noc23-mm14		✔			
31	C-Based VLSI Design	noc23-cs114	✔				
32	Characterization of Construction Materials	noc20-ce01				✔	
33	Chemical Process Technology	noc24-ch09	✔				
34	Chemical Process Utilities	noc23-ch28	✔	✔			
35	Classical Sociological Theory	noc22-hs92		✔			
36	Cloud Computing	noc19-cs64	✔	✔	✔	✔	✔
37	Cloud Computing and Distributed Systems	noc20-cs48				✔	
38	CMOS Digital VLSI Design	noc24-ee29	✔				
39	Compiler Design	noc21-cs07				✔	
40	Computational Fluid Dynamics	noc24-ch12	✔				
41	Computational Mathematics with SageMath	noc24-ma15	✔				
42	Computer Graphics	noc21-cs97	✔		✔		
43	Computer Integrated Manufacturing	noc22-me10	✔		✔	✔	
44	Computer Networks and Internet Protocol	noc22-cs19	✔		✔		
45	Computer Vision	noc23-cs77	✔				
46	Computer Vision And Image Processing - Fundamentals And Applications	noc24-ee38	✔				
47	Construction methods and equipment management	noc21-ce21				✔	
48	Consumer Behaviour	noc22-mg47			✔		
49	Consumer Psychology	noc21-hs64			✔		
50	Control systems	noc19-de04					✔

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S.No.	Name of the course	Course Code	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
51	Cyber Security and Privacy	noc23-cs127			✔		
52	Dairy and Food process and products technology	noc20-ag02				✔	
53	Data Analysis and Decision Making - I	noc22-mg02			✔		
54	Data Analytics with Python	noc23-cs08	✔	✔	✔	✔	
55	Data Base Management System	noc19-cs46	✔		✔	✔	✔
56	Data Science for Engineers	noc20-cs72			✔	✔	
57	Data Structure And Algorithms Using Java	noc22-cs92	✔	✔		✔	
58	Deep Learning - IIT Ropar	noc23-cs24	✔	✔			
59	Demystifying Networking	noc20-cs86				✔	
60	Descriptive Statistics With R Software	noc21-ma76			✔		
61	Design And Analysis Of Algorithms	noc23-cs96	✔				
62	Design for internet of things	noc21-ee85			✔		
63	Design for Quality, Manufacturing and Assembly	noc19-me48					✔
64	Design of fixed wing Unmanned Aerial Vehicles	noc19-ae06					✔
65	Design Of Power Electronic Converters	noc24-ee39	✔				
66	Design of Reinforced Concrete Structures	noc19-ce22					✔
67	Design Practice	noc22-me29			✔		
68	Design Thinking - A Primer	noc21-mg04				✔	
69	Design, Technology and Innovation	noc22-de16	✔	✔			
70	Developing Soft Skills and Personality	noc19-hs32				✔	✔
71	Digital Circuits	noc20-ee70				✔	
72	Digital Design with Verilog	noc24-cs61	✔				
73	Digital Electronic Circuits	noc22-ee55			✔		
74	Drug Delivery: Principles And Engineering	noc23-bt37	✔				
75	Ecology and Environment	noc19-ge23					✔
76	Economics of Banking and Finance Markets	noc22-hs72		✔			
77	Edge Computing	noc24-cs66	✔				

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S.No.	Name of the course	Course Code	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
78	Electric Vehicles - Part 1	noc22-ee53			✔		
79	Electrochemical Technology in Pollution Control	noc20-ch02				✔	
80	Electronic Waste Management - Issues and Challenges	noc21-ce03				✔	
81	Electronics Enclosures Thermal issues	noc22-ee26			✔		
82	Embedded Sensing, Actuation and Interfacing Systems	noc24-ee68	✔				
83	Embedded Systems Design	noc24-cs25	✔				
84	Emotional Intelligence	noc21-hs04			✔	✔	
85	Energy Conservation and Waste Heat Recovery	noc19-me60					✔
86	Enhancing Soft Skills and Personality	noc21-hs02	✔		✔	✔	
87	Entrepreneurship	noc23-mg74	✔				
88	Environmental Chemistry and Microbiology	noc21-bt22				✔	
89	Ethical Hacking	noc19-cs68		✔	✔		✔
90	Experimental Stress Analysis	noc21-me02				✔	
91	Financial Institutions And Markets	noc23-mg46		✔			
92	Fluid Mechanics	noc19-ce28					✔
93	Fluid Mechanics And Its Applications	noc23-me114	✔				
94	Foundation of Cloud IoT Edge ML	noc24-cs26	✔				
95	Foundations of Computational Materials Modelling	noc20-me08				✔	
96	Functional And Conceptual Design	noc23-de11	✔				
97	Fundamental Algorithms: Design And Analysis	noc23-cs39		✔			
98	Fundamentals of Additive Manufacturing Technologies	noc21-me115	✔		✔		
99	Fundamentals Of Artificial Intelligence	noc19-me71	✔		✔		✔
100	Fundamentals of Automotive Systems	noc23-de01	✔	✔	✔		
101	Fundamentals of manufacturing processes	noc19-me44					✔

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S.No.	Name of the course	Course Code	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
102	Fundamentals Of MIMO Wireless Communication	noc24-ee72	✔				
103	Fundamentals of semiconductor devices	noc20-bt17				✔	
104	Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations	noc20-me68				✔	
105	Fuzzy Sets, Logic and Systems & Applications	noc24-ee32	✔				
106	Geographic Information Systems	noc21-ce09				✔	
107	German - I	noc22-hs30	✔		✔	✔	
108	Getting Started with Competitive Programming	noc24-cs29	✔				
109	Google Cloud Computing Foundations	noc20-cs96	✔			✔	
110	GPS Surveying	noc20-ce51				✔	
111	Graph Theory	noc20-ma05				✔	
112	Hardware Modeling Using Verilog	noc23-cs76	✔				
113	Health Research Fundamentals	noc21-hs62			✔		
114	Heat Exchangers Fundamentals and Design Analysis	noc19-me62					✔
115	Human Behaviour	noc21-hs21				✔	
116	Human Computer Interactions	noc19-cs86					✔
117	Hydrogen Energy: Production, Storage, Transportation And Safety	noc23-ch74	✔				
118	Industrial Automation And Control	noc23-ee56	✔	✔			
119	Industrial Safety Engineering	noc22-mg97		✔			
120	Innovation by Design	noc22-de14		✔	✔		
121	Interpersonal Skills	noc19-hs36					✔
122	Introduction to Abrasive Machining and Finishing Processes	noc22-me20			✔		
123	Introduction to Abstract and Linear Algebra	noc19-ma23					✔
124	Introduction to Aerospace Engineering	noc20-ae12				✔	
125	Introduction to Aerospace Engineering-Flight	noc22-ae13		✔			

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S.No.	Name of the course	Course Code	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
126	Introduction to Aircraft Design	noc22-ae14		✔			
127	Introduction to Atmospheric and Space Sciences	noc24-ph09	✔				
128	Introduction to Brain & Behaviour	noc21-hs19				✔	
129	Introduction to Cognitive Psychology	noc22-hs19			✔		
130	Introduction to Embedded System Design	noc20-ee98				✔	
131	Introduction To Industry 4.0 And Industrial Internet Of Things	noc22-cs95	✔	✔		✔	
132	Introduction to Internet of Things	noc19-cs65	✔	✔	✔	✔	✔
133	Introduction to Machine Learning - IITKGP	noc21-cs85	✔	✔	✔		✔
134	Introduction to Machine Learning (Tamil)	noc22-cs84	✔	✔			
135	Introduction to Multimodal Urban Transportation Systems MUTS	noc21-ce72			✔		
136	Introduction to programming in C	noc23-cs02	✔	✔		✔	
137	Introduction to Psychology	noc22-hs20			✔	✔	
138	Introduction to R Software	noc19-ma33					✔
139	Introduction to Rocket Propulsion	noc19-ae08					✔
140	Kinematics of Mechanisms and Machines	noc22-me25			✔		
141	Leadership and Team Effectiveness	noc24-mg35	✔				
142	Machine Learning For Soil And Crop Management	noc24-ag02	✔				
143	Machine Learning, ML	noc21-cs51				✔	
144	Manufacturing Automation	noc19-me78					✔
145	Manufacturing of Composites	noc19-me67					✔
146	Marketing Management - II	noc24-mg41	✔				
147	Marketing research and analysis	noc22-mg70	✔	✔			
148	Mathematical Modeling Of Manufacturing Processes	noc19-me47					✔
149	Matlab Programming for Numerical Computation	noc24-ch36	✔	✔			
150	Matlab-Based Programming Lab In Chemical Engineering	noc23-ch63	✔				
151	Mechanics of Fiber Reinforced Polymer Composite Structures	noc23-me54		✔			

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S.No.	Name of the course	Course Code	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
152	Mechatronics	noc22-me54			✔		
153	Medicinal Chemistry	noc23-cy10		✔			
154	Metal Additive Manufacturing	noc23-me92	✔				
155	Microfluidics And Nanofluidics	noc23-me134	✔				
156	Modelling and Analytics for Supply Chain Management	noc22-mg27			✔		
157	Municipal Solid Waste Management	noc21-ce69			✔	✔	
158	Natural Gas Engineering	noc22-ch57		✔			
159	Natural Hazards	noc20-ce07				✔	
160	Natural Language Processing	noc23-cs45		✔	✔		
161	Nature and Properties of Materials	noc22-me16			✔		
162	Noise Management & Control	noc24-me53	✔				
163	Non-conventional energy Resources	noc22-ge14			✔		
164	Optical Wireless Communications for Beyond 5G Networks and IoT	noc24-ee59	✔				
165	Patent Drafting for Beginners	noc23-hs43		✔			
166	Patent Law for Engineers and Scientists	noc23-hs26		✔			
167	Petroleum Technology	noc23-ch64	✔				
168	Photogeology in Terrain Evaluation (Part 1 and 2)	noc21-ce67			✔		
169	Power Quality	noc24-ee60	✔				
170	Power Quality Improvement Technique	noc21-ee56				✔	
171	Privacy and Security in Online Social Media	noc21-cs28				✔	
172	Problem Solving through Programming in C	noc19-cs43	✔	✔	✔	✔	✔
173	Product Design and Development	noc21-me83	✔		✔		
174	Product Design and Manufacturing	noc23-me14	✔	✔	✔		
175	Product Design using Value Engineering	noc19-me51					✔
176	Production and Operation Management	noc22-mg15			✔		
177	Programming In Java	noc19-cs84	✔	✔	✔	✔	✔
178	Programming In Modern C++	noc22-cs103	✔	✔			

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179	Programming, Data Structures and Algorithms Using Python	noc19-cs40	✔	✔	✔	✔	✔
180	Project Planning & Control	noc20-ce44			✔	✔	
181	Psychology of Everyday	noc21-hs88			✔		
182	Python for Data Science	noc19-cs59	✔	✔	✔	✔	✔
183	Qualitative Research Methods and Research Writing	noc20-ge01				✔	
184	Rapid Manufacturing	noc23-me82	✔		✔		
185	Recent Advances in Transmission Insulators	noc22-ee29			✔		
186	Refrigeration and air-conditioning	noc19-me58					✔
187	Reinforcement Learning	noc24-cs52	✔				
188	Remote Sensing and GIS	noc21-ce61			✔		
189	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	noc21-ch11				✔	
190	Robotics and Control : Theory and Practice	noc22-me05			✔		
191	Rocket Propulsion	noc22-me07	✔				
192	Selection of Nanomaterials for Energy Harvesting and Storage Application	noc19-me73					✔
193	Sensors and Actuators	noc24-ee45	✔				
194	Smart Grid: Basics to Advanced Technologies	noc24-ee37	✔				
195	Smart Materials and Intelligent System Design	noc19-me68			✔		✔
196	Software Testing	noc21-cs13	✔			✔	
197	Strategic Sales Management	noc22-mg107		✔			
198	Strategy: An Introduction to game Theory	noc21-mg50			✔		
199	Strength Of Materials	noc20-ce34				✔	
200	Structural Analysis-I	noc24-ce31	✔				
201	Sustainable Energy Technology	noc23-me138	✔				
202	Sustainable Engineering Concepts and Life Cycle Analysis	noc21-ce47			✔		
203	Sustainable Power Generation Systems	noc23-ge47	✔				
204	Sustainable Transportation systems	noc21-ce74			✔		

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205	System Design through VERILOG	noc21-ee97			✔		
206	Techniques of Materials Characterization	noc22-mm37		✔			
207	The Joy of Computing using Python	noc19-cs41	✔	✔	✔	✔	✔
208	The Psychology of Language	noc21-hs65			✔		
209	Theory Of Production Processes	noc23-me126	✔				
210	Thermal Processing Of Foods	noc23-ch58	✔				
211	Understanding Design	noc22-de15		✔			
212	Wastewater Treatment and Recycling	noc19-ce32					✔
213	Welding Application Technology	noc21-me99			✔		
214	Welding Metallurgy	noc19-mm19		✔			✔
215	Welding of Advanced High Strength Steels for Automotive Applications	noc19-mm18		✔			✔
216	Welding Processes	noc22-mm03			✔		
217	Wheeled Mobile Robots	noc24-me67	✔				
218	Work System Design	noc22-me133	✔	✔			

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Sl.No	Name of the course	Course Code	Year of offering	Contact hours of course	Number of students enrolled in the year	Number of Students completing the course in the year
1	Inspection and Quality Control in Manufacturing	19MEOC09	2022 TO 2023	30	35	35
2	Innovation and Entrepreneurship	19MEOC14	2022 TO 2023	30	124	124
3	Foundry Practice and Procedure	19MEOC05	2020 TO 2021	15	25	25
4	Entrepreneurship awareness camp	ECE	11.03.2022 to 13.3.2022	21	73	73
5	Employability and Personality Development Skills II	19HOC61	2024	15	58	58
6	SCIENCE OF CREATIVITY AND PROFESSIONAL ETHICS	19HSS01	2023-2024	15 hours	121	121
7	SEMICONDUCTOR LIFE CYCLE	19EEOC33	2023-2024	15 hours	140	140
8	19ECOC02 - Quantitative Aptitude	B.E/ECE/1-	10.03.2024 to	15	140	140
9	Negotiation Skills	23MBAV201	2023-2024	15	20	20
10	Transactional Analysis	23MBAV202	2023-2024	15	40	40
11	MATLAB Programming	19MEOC01	OFFLINE	2022 TO 2023	30	128
12	Advanced Industrial Automation Systems	19MEOC03	OFFLINE	2022 TO 2023	30	38
13	Basics of Automotive Electrical Systems	19MEOC06	OFFLINE	2022 TO 2023	30	24

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14	Data Visualization for Managers	23MBAV205	2023-2024	15	60	60
15	FUNDAMENTALS OF IR 4.0	21AD21	2021	45	55	55
16	Certification and career roadmap in civil engineering	19CE0C03	AUG 2023-DEC 2023	15	116	115
17	Phython for civil engineering	19CE0OC05	JAN 2023 - JULY 2023	15	59	59
18	Applications of Iot In Civil Engineering	19CEOC02	FEB-2022-JUNE2022	15	116	116
19	Intensive Training on C Programming - Phase I	B.E/ECE/1-1341759429/1-1341759431	11.12.2019 to 13.12.2019	15	126	126
20	Intensive Training on C Programming - Phase II	B.E/ECE/1-1341759429/1-1341759431	14.12.2019 to 15.12.2019	15	126	126
21	Econometrics and Machine Learning	19MAM0C1	2020-2021	15	55	55
22	Virtual Instrumentation	15EEE23	2019-2020	45	55	55
23	Intensive Coding training		2020 – 2021	15	118	118