

COIMBATORE INSTITUTE OF TECHNOLOGY,
 (Government Aided Autonomous Institution Affiliated to Anna University)
COIMBATORE-641014.

LIST OF VALUE ADDED COURSES

ACADEMIC YEAR:2024-2025 EVEN SEMESTER

CLASS: II YEAR B.E/B.Tech Semester: IV Semester

Based on the experience, expertise, infrastructure facilities and Centre of Excellence, the faculty of all the departments from our Institute has offered 39 value added courses, students can opt for any subject across all the departments to enhance the value of the courses they are interested which will help them to obtain good placements and make progression towards higher studies.

S.No.	Name of the Department	Title of the Course	Faculty Handling the Course	Number of students that the faculty can handle-Lab Facilities/ cCentre of Excellence/ Central Research Facilities and Equipment facilities in the college	Theory only, practicals only, or Theory cum Practical	Capacity of the laboratory to accommodate students	Tentative Dates for conducting the Courses	Preferable department students
1	Department of Civil Engineering	Alternative Building Materials from Waste	Mr. P. Leeban Joseph & Er. S. Prabhu, M/s. Synergy	63 Students	Theory & Practical	63	22.02.2025, 01.03.2025, 08.03.2025 & 15.03.2025	All branches
		3D Printing in Civil Engineering Industry	Dr.P.Jagadesh & M/s. BACE India Limited	63 Students	Theory & Practical	63	22.02.2025, 01.03.2025, 08.03.2025 &	All branches

							15.03.2025	
2	Department of Mechanical Engineering	Non-Destructive Evaluation (NDE)	Dr.C.MANIVANNAN & Industry Person	51	Theory cum Practicals	30	FEBRUARY 2025 - MARCH 2025 (Based on Principal Approval)	Only Mechanical Engineering students
		Foundry Practice and Procedures (Industry Course)	Dr.M.KARTHIKEYAN & KOSO Foundry Division Faculty	30	Theory cum Practicals	As per the Company Norms (30 Maximum)	FEBRUARY 2025 - MARCH 2025 (Based on Principal Approval)	Only Mechanical Engineering students
		Geometric Dimensioning and Tolerancing (GD&T) in Design.	Mr.K.KARTHIK	53	Theory cum Practicals	30	FEBRUARY 2025 - MARCH 2025 (Based on Principal Approval)	Only Mechanical Engineering students
3.	Department of Electrical Engineering	Digital Twin Technology	Industry Experts	30 Students /Batch	Theory cum Practicals	30	February/ March 2025	EEE,MECH, ECE AND CHEMICAL STUDENTS
		Study and Practical Applications of Solar AC and DC Pumps	Dr.S.Suja & Ms.E.Suganya	20 Students /Batch	Theory cum Practicals	20	2024-2025	All Branches
		Build Your own Hybrid Energy Systems	Dr. R. Rajalakshmi & Dr. M.L.Merlin Sajini	30 students (Control and Instrumentatio	Theory cum Practicals	30 students	March 2025	All Branches

				n Laboratory)				
		Embedded Systems Development using STM32 Microcontrollers	Dr.S.Suja & Ms.E.Suganya	15 Students/ Batch	Theory cum Practicals	15	2024-2025	All Branches
		Electrical Safety and First Aid	Dr.S.Gunasekaran Dr.S.Nandakumar	60 Students (Certificate will be provided at the end of course completion.)	Theory cum Practicals	60	February/ March 2025 15 Hours Course (Two Saturdays)	All Branches
		AI application in the system components of Electric Vehicle	Industry Expert	132 Students	Theory	132	February/ March 2025 15 Hours Course (Any Two Working Days)- Budget Submitted.	All Branches
4.	Department of Chemical Engineering	23CHOC15 R PROGRAMMING AND R STUDIO	Dr.A.Vivek Joe Bharath	60 Students Computer Center Department of Chemical Engineering	Theory cum Practicals	60 Students	Third Week of February 2025	All Branches
5.	Department of Electronics and Communicati	1.IoT EDGE COMPUTING 2. IoT based System design	Dr.M.Poongothai & Industry Experts	30 students 30 students	Theory cum	30 students	April 4th week	EEE, ECE , CSE and IT Students

	on Engineering	3.Python for Data Science		30 students (IoT Centre)	Practicals			
		Communication System Design	Dr.I.S.Akila & Industry Experts	30 students (5G Innovation Centre)	Theory cum Practical	30 students	April 4th week	Only ECE Students
		Antenna Design & Testing	Dr.T.Balakumaran Ms.T.Yathavi Ms.Abitha Thangam	30 students (Microwave Lab.)	Theory cum Practical	30 students	2nd or 3rd week of March	Only ECE Students
		Digital System Design with Verilog and VHDL	Industry	141 students	Theory cum Practical			Only ECE Students
6.	Department of Computer Science Engineering	<ol style="list-style-type: none"> 1. Revolutionizing IoT with AI: Insights and Applications 2. Accelerating Edge Computing with GPU 3. Building Scalable Applications with Cloud Storage Integration. 	Dr.K.Amshakala Dr.M.Mohanapriya Dr.S.P.Abirami	30 students (Centre for AI and IOT) 30 students 30 students (CLOUD and Virtualization Lab)	Theory cum Practical	50 students 50 students	July 4th week	All Branches

7.	Department of Information Technology	1.Foundation of NLP	Industry Expert	67	Theory	67	Feb 15 and Feb 22 2025	All Branches
8.	Department of Artificial Intelligence and Data Science	1. Edge IoT & its Applications 2. Building Cloud Solutions using AWS 3. Deep Learning with TensorFlow	Dr. N.Ramkumar	60	Theroy cum Practicals	75	March 2025 - April 2025	All Branches
			Ms.K.Sudha	60	Theroy cum Practicals	75	2025 - 2026 (Odd Semester)	
			Ms. K.Kalaivani	60	Theroy cum Practicals	75	2025 - 2026 (Odd Semester)	
9.	M.Sc (Software Systems)	Cloud and Virtualization:Build,Store and Scale	Dr.P. Aruna	60	Theory cum Practicals	60	April 4th Week	All Branches
10.	M.Sc (Data Science)	Full Stack Development(Advanced Web Technologies)	Industry expert + Faculty(Dr.K.Rajarajeshwari)	60 Students	Theory cum Practicals	60	2025-2026 (Odd Semester)	All Branches
12.	M.Sc (Artificial Intelligence and Machine Learning)	AI for CAD Systems-Sewing Pattern Generation(15 hours)	Industry Expert/Dr. J.Shana	Max Students: 60 (3 Saturdays Only)	Theory cum Practicals	60	Feb last week to Mid March 2025	All Branches
14.	Master of Business Administratio	Transactional Analysis	Dr.R.Jayanthi	Number of students accommodate	Theory Only	NA	2024-25 Even Semester Friday Time-	All Branches

	n			d will be over and above the number allocated for MBA students .The Maximum limit is not exceeded to 60.			Table 5th Hour	
		Negotiation Skills	Dr.A.G.Su dha	Number of students accommodated will be over and above the number allocated for MBA students .The Maximum limit is not exceeded to 60.	Theory Only	NA	2024-25 Even Semester Friday Time-Table 5th Hour	All Branches
		Data Visualization for Managers	Dr.S.Gokul Kumar Dr. S.Thilaga	NIL Lab capacity not available for other students	Practical Only	60	2024-25 Even Semester Monday Time-Table 5th & 6th Hour	All Branches

15.	Department of Mathematics	<ol style="list-style-type: none"> 1. Statistical Learning with R - Programming 2. Mathematics in Indian Knowledge System 3. Vedic Mathematics for competitive examinations 	<p>Dr.S.SangeethaMani</p> <p>Dr.R.Prabakaran/Dr.R.Lavanya/Dr.K.Ganeamoorthy</p> <p>Dr.K..Indirani, Eternal Associate Professor(Rtd), Nirmala College for Women/Dr.S.Murali</p>	<p>The Maximum limit is not exceeded to 60.</p> <p>The Maximum limit is not exceeded to 60.</p> <p>The Maximum limit is not exceeded to 60.</p>	<p>Theory cum practicals</p> <p>Theory</p> <p>Theory</p>	<p>NA</p> <p>NA</p> <p>NA</p>	<p>2024-2025 Even Semester</p> <p>2024-2025 Even Semester</p>	All Branches
16	Department of Physics	Nanotechnology for engineers	Dr. S. Agilan, Dr. C. P. Yoganand, Dr. P. Suresh and Dr. P. Balraju	30 students	Theory cum practicals		2024-2025 Even Semester	All Branches
	Department of Physics	Scanning Electron Microscopy and Energy Dispersive Spectroscopy	Dr. P. Balraju	20 Students	Theory cum practicals		2024-2025 Even Semester	All Branches

	Department of Physics	Energy Harvesting and Storage	Dr. P. Balraju / Dr. Hemaltha KV	20 students	Theory cum practicals		2024-2025 Even Semester	All Branches
17.	Department of Chemistry	<ol style="list-style-type: none"> 1. Nanomaterials preparation and applications 2. Green Hydrogen and fuel cell technology 	<p>Dr.R.Azarudeen/Dr.Hemalatha KV</p> <p>Dr.S.Sugapriya/Dr.Hemalatha KV</p>	<p>65 students</p> <p>65 students</p>	<p>Theory cum Lab</p> <p>Theory cum Lab</p>	<p>65</p> <p>65</p>	<p>Even semester 2024-2025</p> <p>Even Semester 2024-2025</p>	All Branches
18	Department of Humanities	NONVERBAL COMMUNICATION AND SOFT SKILLS	Dr. E. Justin Ruben	30 students	Theory + Lab	60	Even Semester 2024 - 2025	All Branches