

Details of Courses for Semester-I, 2024-25 (Masters)

ECE

Semester-I

Microwave and Communication Engg.

Course Code	Course Name	L-T-P-C	Offered By Discipline	Instructor	No. of Students
EC5M01	Advanced Communication Engineering	3-0-0-3	ECE		
EC5M02	Computational Electromagnetics	3-0-0-3	ECE		
EC5M03	RF and Microwave Circuits Design	3-0-2-4	ECE		
OE1 (Choose any one course from below electives)					
		3-0-0-3	ECE		
		3-0-0-3	ECE		
		3-0-0-3	ECE		

Power and Control

EC5P01	Special topics in Control system	2-0-0-2	ECE		
EC5P02	Special topics in Power Engineering	2-0-0-2	ECE		
EC5P03	Power Electronics and Drives	3-0-0-3	ECE		
MT504a	Microcontroller	1-0-2-2	MT		
MT504b	PLC	1-0-2-2	MT		
OE1 (Choose any one course from below electives)					
		3-0-0-3	ECE		
		3-0-0-3	ECE		
		3-0-0-3	ECE		

Micro and Nenoelectronics

EC5N01	Physics of Semiconductor Devices	3-0-0-3	ECE		
EC5N02	Digital VLSI Design	3-0-0-3	ECE		
EC5N03	Device Fabrication Technology	3-0-2-4	ECE		
OE1 (Choose any one course from below electives)					
		3-0-0-3	ECE		
		3-0-0-3	ECE		
		3-0-0-3	ECE		

CSE

Semester-I

Course Code	Course Name	Credits:	Offered By Discipline	Instructor	No. of Students
OE07 (Choose any one course from below elective)					
CS8016	Cloud Computing (02 Batches)	3-0-0-3	CSE	MS	
OE08 (Choose any one course from below elective)					
CS8031	Cyber Security (02 Batches)	2-0-2-3	CSE	ND	
OE09 (Choose any one course from below elective)					
CS8018	Web Mining	3-0-0-3	CSE	ACP	
CS8013	Mobile and Wireless Networks	3-0-0-3	CSE	VKJ	
OE10 (Choose any one course from below elective)					
CS8032	Soft Computing	3-0-0-3	CSE	AS	
CS8004	Deep Learning and Applications	2-0-2-3	CSE	AO	
OE11 (Choose any one course from below elective)					

CS8007	Social Network Analysis	2-0-2-3	CSE	ACP
CS8025	Fuzzy Sets, Logic and Applications	3-0-0-3	CSE	AS

ME

Semester-I

<u>Course Code</u>	<u>Course Name</u>	<u>L-T-P-C</u>	<u>Offered By Discipline</u>	<u>Instructor</u>	<u>No. of Students</u>
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CAD/CAM

ME5001	Analytical Methods in Engineering	3-0-0-3	ME	SM	
ME5C01	Computer Aided Geometric Design	3-0-0-3	ME	PKJ	

OE1 (Choose any One course from below electives)

OE4M41	Micro and Nano manufacturing	3-0-0-3	ME	SGM	
OE4M22	Industrial Instrumentation & Metrology	3-0-0-3	ME	CD	

OE2 (Choose any One course from below electives)

ME8002	Design for Experiments			CD	
OE4M74	AI and ML for Engineering	3-0-0-3	ME	VKG	

ME5C2L	PG IT Workshop I	0-0-2-2	ME	DSR	
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Design

<u>Course Code</u>	<u>Course Name</u>	<u>L-T-P-C</u>	<u>Offered By Discipline</u>	<u>Instructor</u>	<u>No. of Students</u>
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ME5001	Analytical Methods in Engineering	3-0-0-3	ME	SM	
ME5D01	Advanced Mechanics of Solid	3-0-0-3	ME	SM	
ME5D02	Mechanical Vibrations and Condition Monitoring	3-0-2-4	ME	SDP	

OE1 (Choose any one course from below electives)

ME8002	Design for Experiments	3-0-0-3	ME	CD	
ME5D03	Finite Element Method for Mechanical Engineers	3-0-0-3	ME	SDP	
OE4M74	AI and ML for Engineering	3-0-0-3	ME	VKG	

ME5D3L	PG IT Workshop II	0-0-2-2	ME	DSR	
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Manufacturing

<u>Course Code</u>	<u>Course Name</u>	<u>L-T-P-C</u>	<u>Offered By Discipline</u>	<u>Instructor</u>	<u>No. of Students</u>
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ME5001	Analytical Methods in Engineering	3-0-0-3	ME	SM	
ME5M01	Manufacturing Science	3-0-0-3	ME	ARR	

OE1 (Choose any One course from below electives)

OE4M22	Industrial Instrumentation & Metrology	3-0-0-3	ME	CD	
OE4M41	Micro and Nano manufacturing	3-0-0-3	ME	SGM	

OE2 (Choose any One course from below electives)

ME8002	Design for Experiments	3-0-0-3	ME	CD	
OE4M74	AI and ML for Engineering	3-0-0-3	ME	VKG	

ME5M2L	PG IT Workshop III	0-0-2-2	ME	DSR	
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Mechatronics

Semester-I

<u>Course Code</u>	<u>Course Name</u>	<u>L-T-P-C</u>	<u>Offered By Discipline</u>	<u>Instructor</u>	<u>No. of Students</u>
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ME5001	Analytical Methods in Engineering	3-0-0-3	ME	SM	
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MT5001	CONCEPTS IN MECHANICAL ENGINEERING	3-0-0-3	MT	SM	
	OR				

MT5002	Concepts in Electronic Device	3-0-0-3	ECE		
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MT5003	Sensors and Actuators	2-0-2-3	ME	MS	
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MT504a	Microcontroller	1-0-2-2	MT	VKG
MT504b	PLC	1-0-2-2	MT	TS

Master of Design

Semester I

Course Code	Course Name	L-T-P-C	Offered By Discipline	Instructor	No. of Students
DS5001	Elements and Principles of design	2-0-2-3	DS	AB	
DS5003	Ergonomics for Industrial Design	2-0-2-3	DS	SP	
DS5004	Product Design-I	2-0-2-3	DS	PT	
DS5005	Visual Design I	2-0-2-3	DS	TSG	
DS5006	Design Workshop-I	2-0-2-3	DS	VF	
PC1001	Professional Development Course	1-0-0-1	Placement	Placement	

Semester III

Course Code	Course Name	L-T-P-C	Offered By Discipline	Instructor	No. of Students
DS5007	Design Project (Technically Complex project of System)	0-0-16-8	DS	Guide	
Choose any two Elective from below course					
DS5011	Advance Applied Ergonomics OR	3-0-0-3	DS	PM	
DS5012	Advance Visual Ergonomics	2-0-2-3	DS	PM	
DS5013	Sustainable Design	3-0-0-3	DS	AB	
DS5014	Design Styling and Trend Forecast	2-0-2-3	DS	VF	
EMF's (Any two of the following three EMF's)					
EM592h	Medical Equipment Design	1	DS	VF	
EM592k	Product Design in Electronics	1	DS	VF	
EM5D03	Photography	1	DS	VF	
DS5096	Summer Internship (compulsory)	2	DS	GUIDE	
DS5096	Summer Internship (compulsory)	2	DS		