

माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR Deemed University (Declared under Distinct Category by Ministry of Education, Government of India) NAAC ACCREDITED WITH A++ Grade (Bola Ka Mandir, Gwalior (M.P.)- 474005, INDIA Ph.:+91-751-2409300, E-mail: vicechancellor@mitsgwalior.in, Website: www.mitsgwalior.in





Batch	Session	Code	Courses offered	Weeks	Credits	Mentors
		M130501	Power Electronics	12 Weeks		
		M130502	Electrical Machines-I	12 Weeks		
V-Sem	July-	M130503	Power System Analysis	12 Weeks		
2017	December	M130504	Introduction to Smart Grid	08 Weeks		
Batch	2019	M130505	Fundamental of Electric Drives	08 Weeks		
		M130506	Control Engineering	12 Weeks		
		M130507	simulink	08 Weeks		
		M130601	Fundamental of Semiconductor Devices	08 Weeks		
		M130602	Power system Engineering	12 Weeks		
		M130603	Fuzzy Sets. Logic and Systems & Applications	12 Weeks		
		M130604	Non conventional Energy Resources	12 Weeks		
		M130605	DC Power Transmission System	12 Weeks		
		M130701	Introduction to Smart Grid	08 Weeks		
		M130702	DC Microgrid and Control System	08 Weeks		
VII-Sem	July -	M130703	Electrical Distribution System Analysis	08 Weeks		
2017	December	M130704	Power System Protection	12 Weeks		
Batch	2020	M130705	Computer Aided Power System Analysis	12 Weeks		
		M130706	Design of photovoltaic systems	12 Weeks		
		M130707	Fundamentals of Electrical Engineering	12 Weeks		
		M130801	Fundamentals of semiconductor devices	12 Weeks		
	Jan - June 2021	M130802	Power System Engineering	12 Weeks		
VIII-Sem		M130803	Non-Conventional Energy Resources	12 Weeks		
2017		M130804	Fundamental of Power Electronics	12 Weeks		
Batch			Principles of Signals and Systems	12 Weeks		
Daton			Control engineering	12 Weeks		
		M130807	Electrical Machines	12 Weeks		
		M130808	Biomedical Signal Processing	12 Weeks		
	July - December	M130501	Technologies For Clean And Renewable Energy Production	08 Weeks	3	
			Basic Electrical Circuits	12 Weeks	4	
V-Sem			Electrical Machines - I	12 Weeks	4	
2018			Power Electronics	12 Weeks	4	
Batch			Power system analysis	12 Weeks	4	
			Control systems	12 Weeks	4	
			Linear System Theory	12 Weeks	4	
			Fundamentals of semiconductor devices	12 Weeks	4	
			Power System Engineering	12 Weeks	4	
\/I Som		M130603	Biomedical Signal Processing	12 Weeks	4	

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Wilsom 2018 Batch 2021 Mil 30702 Electrical Measurement and Electronic Instruments 12 Weeks 4 Prof. R. Narvey Prof. Manol Kumar Prof. Nipun Gupta Prof. Nipun Gupt			M130608		12 Weeks	4	
Milor December 2021	2018	December	M130701	Control Engineering	12 Weeks	4	Dr. Vikram
Batch 2021 M130703 Electrical Machines - 12 Weeks 4 Prof. Proven Bansal Prof. Nipus Gupta 12 Weeks 4 Prof. Manager Gupta Gup			M130702	Electrical Measurement and Electronic Instruments	12 Weeks	4	Prof. Manoj Kumar
VIII-Sem 2012 Mil 30901 Network Analysis 12 Weeks 4 Prof. Mipun Gupta 12 Weeks 4 Pr			M130703	Electrical Machines - I	12 Weeks	4	Prof. Nipun Gupta
Maj			M130704	Design for Internet of Things	08 Weeks		Prof. Nipun Gupta
May	VIII- Som						
National State			M130802				
V-Sem 2019		2022				•	
V-Sem 2019 Batch 2021 Mil 30508 Control Engineering 12 Weeks 4 Prof. Asins Patra Dr. Vikram Mil 30509 Electrical Measurement and Electronic Instruments 12 Weeks 4 Prof. Asins Patra Dr. Vikram Mil 30500 Electrical Measurement and Electronic Instruments 12 Weeks 4 Prof. Asins Patra Prof. Mil 30500 Prof. Mil 30500 Electrical Machines - I 12 Weeks 4 Prof. Mil 30500 Prof. Vishal Chaudhar Prof. Prof. Prof. Vishal Chaudhar Prof. Vishal Chaudhar Prof. Vi			M130804	Operation and Planning of Power Distribution System	12 Weeks	4	Prof. Bhavna Rathore
VI-Sem 2019 Batch Sem 2021 Batch Sem 2021 Batch Sem 2022 Milosopa Sem		December	M130502	Basic Electrical Circuits	12 Weeks	4	
December 2021	V Som		M130508	Control Engineering	12 Weeks	4	Dr. Vikram
M130503 Electrical Machines - I 12 Weeks	2019		M130509	Electrical Measurement and Electronic Instruments	12 Weeks	4	
M130510 Design for Internet of Things Design for Internet of Things Design for Internet of Things Prof. Nipun Gupta	Dateii		M130503	Electrical Machines - I	12 Weeks	4	Prof. Nipun Gupta
VII-Sem 2019 Batch VII-Sem 2022 M130607 Control engineering M130602 Power System Engineering M130602 Power System Engineering M130603 Depration and Planning of Power Distribution System M130606 Principles of Signals and Systems M130611 Microprocessors and Microcontrollers M130606 Principles of Signals and Systems M130610 Microprocessors and Microcontrollers M130705 Basic Electrical Circuits (Track A: Power Systems and Power Electronics) M130705 Basic Electrical Machines - I (Track A: Power Systems and Power Electronics) M130702 Electrical Machines - I (Track A: Power Systems and Power Electronics) M130705 Basic Electrical Circuits (Track A: Power Systems and Power Electronics) M130706 Mina0702 Electrical Machines - I (Track A: Power Systems and Power Electronics) M130705 Basic Electrical Circuits (Track B: Control and Instrumentation) M130706 Control engineering (Track B: Control and Instrumentation) M130706 Linear Systems Theory (Track B: Control and Instrumentation) M130706 Linear Systems Theory (Track B: Control and Instrumentation) M130706 Linear Systems Theory (Track B: Control and Instrumentation) M130805 Electrical Machines - II (Track A: Power Systems and Power Electronics) M130807 Principles of Signals and Systems Crack A: Power Systems and Power Electronics) M130807 Principles of Signals and Systems (Track A: Power Systems and Power Electronics) M130807 Principles of Signals and Systems (Track A: Power Systems and Power Electronics) M130806 Control engineering (Track A: Power Systems and Power Electronics) M130807 Principles of Signals and Systems (Track A: Power Systems and Power Electronics) M130807 Principles of Signals and Systems (Track A: Power Systems and Power Electronics) M130808 Control engineering (Track B: Control and Instrumentation) M12 Weeks M130808 Control			M130510	Design for Internet of Things		3	Prof. Nipun Gupta
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VIII- Sem 2019 Batch Wild Sem 2023 M130806 Fundamental of Power Electronics (Track A: Power Systems and Power Electronics) M130806 Fundamental of Power Electronics (Track A: Power Systems and Power Electronics) M130806 Fundamental of Power Electronics (Track A: Power Systems and Power Electronics) M130807 Principles of Signals and Systems (Track B: Control and Instrumentation) M130808 Control engineering (Track B: Control and Instrumentation)						•	
VIII- Sem 2019 Batch M130801 Network Analysis (Track A: Power Systems and Power Electronics) M130805 Principles of Signals and Systems (Track B: Control and Instrumentation) M130806 Control engineering (Track B: Control and Instrumentation) M130807 Principles of Signals and Systems (Track B: Control and Instrumentation) 12 Weeks 4 Prof. Vishal Chaudhry 12 Weeks 4 Dr. Vikram M130808 Control engineering (Track B: Control and Instrumentation) 12 Weeks 4 Prof. Vishal Chaudhry M130808 Control engineering (Track B: Control and Instrumentation) 12 Weeks	2019					·	
2019 Batch 2023 M130807 Principles of Signals and Systems (Track B: Control and Instrumentation) 12 Weeks 4 Dr. Vikram M130808 Control engineering (Track B: Control and Instrumentation) 12 Weeks 4 Prof. A Patra						-	
Batch M130808 Control engineering (Track B: Control and Instrumentation) 12 Weeks 4 Prof. A Patra						-	,
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				Analog Electronic Circuits(Track B: Control and Instrumentation)	12 Weeks	4	Prof. Manoj Kumar

		M130810	Introduction to Research (Track A and Track B)	08 Weeks	3	Dr. Yashwant Sawle
V-Sem 2020 Batch		M130502	Basic Electrical Circuits (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Saurabh Rajput
			Control engineering (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Ashis Patra
			Electrical Machines - I (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Nipun Gupta
	July -		Electrical Measurement and Electronic Instruments (Track A: Power Systems and Power Electro	12 Weeks	4	Prof. Ankit Tiwari
	December	M130502	Basic Electrical Circuits (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Saurabh K. Rajput
	2022	M130508	Control engineering (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Ashis Patra
		M130509	Electrical Measurement and Electronic Instruments (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Ankit Tiwari
		M130507	Linear Systems Theory (Track B: Control and Instrumentation)	12 Weeks	4	Dr. Vikram
		M130608	Electrical Machines - II (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Praveen Bansal
		M130605	Fundamental of Power Electronics (Track A)	12 Weeks	4	Prof. Ankit Tiwari
VI-Sem		M130609	Network Analysis (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Vishal Chaudhry
2020	Jan - June	M130606	Principles of Signals and Systems (Track B: Control and Instrumentation)	12 Weeks	4	Dr. Vikram
Batch	2023	M130607	Control engineering (Track B: Control and Instrumentation)	12 Weeks	4	Prof. A Patra
			Analog Electronic Circuits(Track B: Control and Instrumentation)	12 Weeks	4	Prof. Manoj Kumar
		M130613	Introduction to Research (Track A and Track B)	08 Weeks	3	Dr. Yashwant Sawle
			Basic Electrical Circuits (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Vishal Chaudhary
		M130701	Control engineering (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. AsishPatra
VII-Sem	July-		Electrical Machines - I (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Praveen Bansal
2020	December		Electrical Measurement and Electronic Instruments (Track A: Power Systems and Power Electro	12 Weeks	4	Dr. Ankit Tiwari
Batch	2023	M130705	Basic Electrical Circuits (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Vishal Chaudhary
		M130703	Control engineering (Track B: Control and Instrumentation)	12 Weeks	4	Prof. AsishPatra
			Electrical Measurement and Electronic Instruments (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Praveen Bansal
			Linear Systems Theory (Track B: Control and Instrumentation)	12 Weeks	4	Dr. Vikram
			Fundamental of Power Electronics (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Manoj Kumar
		M130811	Power System Engineering (Track A: Power Systems and Power Electronics)	12 Weeks	4	Dr. Shishi Dixit
VIII- Sem	Jan - June	M130807	Principles of Signals and Systems (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Kuldeep Swarnkar
2020	2024		Sensors and Actuators (Track B: Control and Instrumentation)	12 Weeks	4	Dr. Vijay Bhuria
Batch			Control Engineering (Track B: Control and Instrumentation)	12 Weeks	4	Prof, Ashis Patra
		M130801	Network Analysis (Track A and Track B)	12 Weeks	4	Prof, Vishal Chaudhry
		W 10000 1	Network Analysis (Track A and Track B)	12 WOORD	-	r roi, violiai Oriadaniy
	July - December 2023	M130502	Basic Electrical Circuits (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Vishal Chaudhary
		M130508	Control engineering (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. AsishPatra
			Electrical Machines - I (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Praveen Bansal
V-Sem		M130509	Electrical Measurement and Electronic Instruments (Track A: Power Systems and Power Electro	12 Weeks	4	Dr. Ankit Tiwari
2021 Batch		M130502	Basic Electrical Circuits (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Vishal Chaudhary
Daton		M130508	Control Engineering (Track B: Control and Instrumentation)	12 Weeks	4	Prof. AsishPatra
		M130509	Electrical Measurement and Electronic Instruments (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Praveen Bansal
		M130507	Linear Systems Theory (Track B: Control and Instrumentation)	12 Weeks	4	Dr. Vikram
VI-Sem 2021 Batch	Jan - June 2024	M130605	Fundamentals of Power Electronics	12 Weeks	4	Prof Manoj Kumar
		M130602	Power System Engineering	12 Weeks	4	Dr. Shishi Dixit
			Principles of Signals and Systems	12 Weeks	4	Prof. Kuldeep Swarnkar
		M130614	Sensors and Actuators	12 Weeks	4	Dr. Vijay Bhuria
		M130607	Control Engineering	12 Weeks	4	Prof. Ashis Patra
			Network Analysis	12 Weeks	4	Prof. Vishal Chaudhry

VII-Sem 2021 Batch	July- December 2024	M130705	Basic Electrical Circuits	12 Weeks	4	Prof. Vishal Chaudhary
			A Basic Course on Electric and Magnetic Circuits	12 Weeks	4	Dr. Vijay Bhuria
			Electrical Measurement and Electronic Instruments	12 Weeks	4	Dr. Ankit Tiwari
		M130703	Electrical Machines – I	12 Weeks	4	Prof. Ashis Patra
		M130707	Control Systems	12 Weeks	4	Dr. Vikram
	Jan - June 2025	M130806	Fundamental of Power Electronics	12 Weeks	4	Dr. Vishal Chaudhary
		M130811	Power System Engineering	12 Weeks	4	Dr. Vijay Bhuria
VIII- Sem		M130805	Electrical Machines - II	12 Weeks	4	Dr. Yashwant Sawle
2021		M130807	Principles of Signals and Systems	12 Weeks	4	Dr. Vikram
Batch		M130812	Sensors and Actuators	12 Weeks	4	Dr. A.K. Wadhwani
		M130808	Control engineering	12 Weeks	4	Dr. Sulochana Wadhwani
		M130801	Network Analysis	12 Weeks	4	Dr. Vishal Chaudhary
	July - December 2024	M130502	Basic Electrical Circuits	12 Weeks	4	Prof. Vishal Chaudhary
V-Sem		M130511	A Basic Course on Electric and Magnetic Circuits	12 Weeks	4	Dr. Vijay Bhuria
2022		M130509	Electrical Measurement and Electronic Instruments	12 Weeks	4	Dr. Ankit Tiwari
Batch		M130503	Electrical Machines – I	12 Weeks	4	Prof. Ashis Patra
		M130506	Control Systems	12 Weeks	4	Dr. Vikram
VI-Sem 2022 Batch	Jan - June 2025	M130605	Fundamental of Power Electronics	12 Weeks	4	Dr. Vishal Chaudhary
		M130602	Power System Engineering	12 Weeks	4	Dr. Vijay Bhuria
		M130606	Principles of Signals and Systems	12 Weeks	4	Dr. Vikram
		M130614	Sensors and Actuators	12 Weeks	4	Dr. A.K. Wadhwani
		M130607	Control engineering	12 Weeks	4	Madhwani
		M130609	Network Analysis	12 Weeks	4	Dr. Vishal Chaudhary