



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

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Minor Courses

Batch	Session	Code	Courses offered	Weeks	Credits	Mentors
V-Sem 2017 Batch	July- December 2019	M130501	Power Electronics	12 Weeks		
		M130502	Electrical Machines-I	12 Weeks		
		M130503	Power System Analysis	12 Weeks		
		M130504	Introduction to Smart Grid	08 Weeks		
		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		
VII-Sem 2017 Batch	July - December 2020	M130701	Introduction to Smart Grid	08 Weeks		
		M130702	DC Microgrid and Control System	08 Weeks		
		M130703	Electrical Distribution System Analysis	08 Weeks		
		M130704	Power System Protection	12 Weeks		
		M130705	Computer Aided Power System Analysis	12 Weeks		
		M130706	Design of photovoltaic systems	12 Weeks		
		M130707	Fundamentals of Electrical Engineering	12 Weeks		
VIII-Sem 2017 Batch	Jan - June 2021	M130801	Fundamentals of semiconductor devices	12 Weeks		
		M130802	Power System Engineering	12 Weeks		
		M130803	Non-Conventional Energy Resources	12 Weeks		
		M130804	Fundamental of Power Electronics	12 Weeks		
		M130805	Principles of Signals and Systems	12 Weeks		
		M130806	Control engineering	12 Weeks		
		M130807	Electrical Machines	12 Weeks		
		M130808	Biomedical Signal Processing	12 Weeks		
V-Sem 2018 Batch	July - December 2020	M130501	Technologies For Clean And Renewable Energy Production	08 Weeks	3	
		M130502	Basic Electrical Circuits	12 Weeks	4	
		M130503	Electrical Machines - I	12 Weeks	4	
		M130504	Power Electronics	12 Weeks	4	
		M130505	Power system analysis	12 Weeks	4	
		M130506	Control systems	12 Weeks	4	
		M130507	Linear System Theory	12 Weeks	4	
VI-Sem		M130601	Fundamentals of semiconductor devices	12 Weeks	4	
		M130602	Power System Engineering	12 Weeks	4	
		M130603	Biomedical Signal Processing	12 Weeks	4	

VI-Sem 2018 Batch	Jan - June 2021	M130604	Non-Conventional Energy Resources	12 Weeks	4	
		M130605	Fundamental of Power Electronics	12 Weeks	4	
		M130606	Principles of Signals and Systems	12 Weeks	4	
		M130607	Control engineering	12 Weeks	4	
		M130608	Electrical Machines-II	12 Weeks	4	
VII-Sem 2018 Batch	July - December 2021	M130701	Control Engineering	12 Weeks	4	Prof. Ashis Patra Dr. Vikram
		M130702	Electrical Measurement and Electronic Instruments	12 Weeks	4	Prof. R. Narvey Prof. Manoj Kumar
		M130703	Electrical Machines - I	12 Weeks	4	Prof. Praveen Bansal Prof. Nipun Gupta
		M130704	Design for Internet of Things	08 Weeks	3	Prof. Vishal Chaudhary Prof. Nipun Gupta
VIII- Sem 2018 Batch	Jan - June 2022	M130801	Network Analysis	12 Weeks	4	Prof. Vishal Chaudhary
		M130802	Analog Circuits	08 Weeks	3	Prof. Manoj Kumar
		M130803	Microprocessors and Microcontrollers	12 Weeks	4	Prof. Kuldeep Swarnkar
		M130804	Operation and Planning of Power Distribution System	12 Weeks	4	Prof. Bhavna Rathore
V-Sem 2019 Batch	July - December 2021	M130502	Basic Electrical Circuits	12 Weeks	4	Prof. K. K. Swarnkar Prof. Saurabh Rajput
		M130508	Control Engineering	12 Weeks	4	Prof. Ashis Patra Dr. Vikram
		M130509	Electrical Measurement and Electronic Instruments	12 Weeks	4	Prof. Rakesh Narvey Prof. Manoj Kumar
		M130503	Electrical Machines - I	12 Weeks	4	Prof. Praveen Bansal Prof. Nipun Gupta
		M130510	Design for Internet of Things	08 Weeks	3	Prof. Vishal Chaudhary Prof. Nipun Gupta
VI-Sem 2019 Batch	Jan - June 2022	M130609	Network Analysis	12 Weeks	4	Prof. Vishal Chaudhary
		M130607	Control engineering	12 weeks	4	Dr. Vikram
		M130602	Power System Engineering	12 weeks	4	Dr. Himmat Singh
		M130610	Operation and Planning of Power Distribution System	12 weeks	4	Prof. Bhavna Rathore
		M130606	Principles of Signals and Systems	12 Weeks	4	Prof. Rahul Sagwal
		M130611	Microprocessors and Microcontrollers	12 Weeks	4	Prof. Kuldeep Swarnkar
VII-Sem 2019 Batch	July- December 2022	M130705	Basic Electrical Circuits (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Saurabh K. Rajput
		M130701	Control engineering (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Ashis Patra
		M130703	Electrical Machines - I (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Nipun Gupta
		M130702	Electrical Measurement and Electronic Instruments (Track A: Power Systems and Power Electro	12 Weeks	4	Prof. Ankit Tiwari
		M130705	Basic Electrical Circuits (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Saurabh K. Rajput
		M130701	Control engineering (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Ashis Patra
		M130702	Electrical Measurement and Electronic Instruments (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Ankit Tiwari
		M130706	Linear Systems Theory (Track B: Control and Instrumentation)	12 Weeks	4	Dr. Vikram
VIII- Sem 2019 Batch	Jan - June 2023	M130805	Electrical Machines - II (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Praveen Bansal
		M130806	Fundamental of Power Electronics (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Ankit Tiwari
		M130801	Network Analysis (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Vishal Chaudhry
		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
		M130809	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	July - December 2022	M130502	Basic Electrical Circuits (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Saurabh Rajput
		M130508	Control engineering (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Ashis Patra
		M130503	Electrical Machines - I (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Nipun Gupta
		M130509	Electrical Measurement and Electronic Instruments (Track A: Power Systems and Power Electro	12 Weeks	4	Prof. Ankit Tiwari
		M130502	Basic Electrical Circuits (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Saurabh K. Rajput
		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
VI-Sem 2020 Batch	Jan - June 2023	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
		M130609	Network Analysis (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Vishal Chaudhry
		M130606	Principles of Signals and Systems (Track B: Control and Instrumentation)	12 Weeks	4	Dr. Vikram
		M130607	Control engineering (Track B: Control and Instrumentation)	12 Weeks	4	Prof. A Patra
		M130612	Analog Electronic Circuits(Track B: Control and Instrumentation)	12 Weeks	4	Prof. Manoj Kumar
VII-Sem 2020 Batch	July- December 2023	M130613	Introduction to Research (Track A and Track B)	08 Weeks	3	Dr. Yashwant Sawle
		M130705	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
		M130703	Electrical Machines - I (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Praveen Bansal
		M130702	Electrical Measurement and Electronic Instruments (Track A: Power Systems and Power Electro	12 Weeks	4	Dr. Ankit Tiwari
		M130705	Basic Electrical Circuits (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Vishal Chaudhary
		M130701	Control engineering (Track B: Control and Instrumentation)	12 Weeks	4	Prof. AsishPatra
VIII- Sem 2020 Batch	Jan - June 2024	M130702	Electrical Measurement and Electronic Instruments (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Praveen Bansal
		M130706	Linear Systems Theory (Track B: Control and Instrumentation)	12 Weeks	4	Dr. Vikram
		M130806	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
		M130807	Principles of Signals and Systems (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Kuldeep Swarnkar
		M130812	Sensors and Actuators (Track B: Control and Instrumentation)	12 Weeks	4	Dr. Vijay Bhuria
		M130808	Control Engineering (Track B: Control and Instrumentation)	12 Weeks	4	Prof, Ashis Patra
V-Sem 2021 Batch	July - December 2023	M130801	Network Analysis (Track A and Track B)	12 Weeks	4	Prof, Vishal Chaudhry
		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
		M130503	Electrical Machines - I (Track A: Power Systems and Power Electronics)	12 Weeks	4	Prof. Praveen Bansal
		M130509	Electrical Measurement and Electronic Instruments (Track A: Power Systems and Power Electro	12 Weeks	4	Dr. Ankit Tiwari
		M130502	Basic Electrical Circuits (Track B: Control and Instrumentation)	12 Weeks	4	Prof. Vishal Chaudhary
		M130508	Control Engineering (Track B: Control and Instrumentation)	12 Weeks	4	Prof. AsishPatra
VI-Sem 2021 Batch	Jan - June 2024	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
		M130605	Fundamentals of Power Electronics	12 Weeks	4	Prof Manoj Kumar
		M130602	Power System Engineering	12 Weeks	4	Dr. Shishi Dixit
		M130606	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
		M130609	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
		M130706	A Basic Course on Electric and Magnetic Circuits	12 Weeks	4	Dr. Vijay Bhuria
		M130702	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
VIII- Sem 2021 Batch	Jan - June 2025	M130806	Fundamental of Power Electronics	12 Weeks	4	Dr. Vishal Chaudhary
		M130811	Power System Engineering	12 Weeks	4	Dr. Vijay Bhuria
		M130805	Electrical Machines - II	12 Weeks	4	Dr. Yashwant Sawle
		M130807	Principles of Signals and Systems	12 Weeks	4	Dr. Vikram
		M130812	Sensors and Actuators	12 Weeks	4	Dr. A.K. Wadhvani
		M130808	Control engineering	12 Weeks	4	Dr. Sulochana Wadhvani
		M130801	Network Analysis	12 Weeks	4	Dr. Vishal Chaudhary
V-Sem 2022 Batch	July - December 2024	M130502	Basic Electrical Circuits	12 Weeks	4	Prof. Vishal Chaudhary
		M130511	A Basic Course on Electric and Magnetic Circuits	12 Weeks	4	Dr. Vijay Bhuria
		M130509	Electrical Measurement and Electronic Instruments	12 Weeks	4	Dr. Ankit Tiwari
		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. Wadhvani
		M130607	Control engineering	12 Weeks	4	Dr. Sulochana Wadhvani
		M130609	Network Analysis	12 Weeks	4	Dr. Vishal Chaudhary