

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous NAAC Accredited Institute Affiliated to RGPV Bhopal)

Notice

Date: 20/01/2020

As per flexible curriculum scheme, students of III Year will **mandatory have to register in one elective course** offered by their department and willingly register for Honor and Minor specialization courses from list enclosed below and in addition:

1. Students will choose courses for honors from pool of **parent department only**
2. Students will choose courses for minor specialization from the pool of **other department only**.

Last date to register in all three category courses is 22.01.2020.

Department of Chemical Engineering

Name of Department	S.No.	Full name of Course	Weeks	Course Start Date	Mentor
Chemical Engineering Department	Department Elective Courses				
	1.	Chemical Reaction Engineering -II	12 Weeks	January 27, 2020	Prof. Swati Gupta & Prof. Pratap Singh
	2.	Multiphase Flows	8 Weeks	January 27, 2020	Prof. Swati Gupta & Prof. Sulochana Nagar
	3.	Membrane Technology	12 Weeks	January 27, 2020	Prof. Anish P. Jacob
	Honor Specialization				
	1.	Environmental Quality Monitoring & Analysis	12 Weeks	January 27, 2020	-
	2.	Electrochemical Technology in Pollution Control	8 Weeks	January 27, 2020	-
	3.	Computational Fluid Dynamics	8 Weeks	January 27, 2020	-
	4.	Soft Nano Technology	8 Weeks	January 27, 2020	-
	Minor Specialization				
	1.	Process Control - Design, Analysis and Assessment	12 Weeks	January 27, 2020	Prof. Swati Gupta & Dr. R.K. Dubey
	2.	Membrane Technology	12 Weeks	January 27, 2020	Prof. Anish P. Jacob & Prof. S.R. Geed
	3.	Basic Principles and Calculations in Chemical Engineering	12 Weeks	January 27, 2020	Prof. Swati Gupta & Prof. Arti Sahu

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Department of Computer Science & Engineering

Name of Department	S.No.	Full name of Course	Weeks	Course Start Date	Mentor
Computer Science & Information Technology	Department Elective Courses				
	1.	Data Analytics with Python	12 weeks	January 27, 2020	Dr. Saniv Sharma, Prof. Namrata Agrawal
	2.	Introduction to Machine Learning	12 weeks	January 27, 2020	Prof. Mahesh Parmar, Prof. Arun Kumar
	3.	Cloud computing	8 weeks	February 24, 2020	Prof. Khushboo Agarwal, Prof. Pooja Agrawal
	Honor Specialization				
	1.	Multi-Core Computer Architecture - Storage and Interconnects	8	February 24, 2020	Prof. Neha Bhardwaj, Prof. Aishwarya
	2.	GPU Architectures and Programming	12	January 27, 2020	Prof. R.R. Singh Makwana, Prof. Sneha Garg
	3.	Artificial Intelligence: Knowledge Representation And Reasoning	12	January 27, 2020	Prof. Jaimala Jha, Prof. Shewta Patel
	Minor Specialization				
	1.	Introduction to algorithms and analysis	12	January 27, 2020	Prof. Abhilash Sonker, Prof. Mohit Jain
	2.	Programming, Data Structures And Algorithms Using Python	8	January 27, 2020	Prof. Amit Kumar Manjhwari, Prof. Julie Kumari
	3.	Programming in Java	12	January 27, 2020	Prof. Vikas Sejwar, Prof. Mir Shahnawaz Ahmad

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Department of Electronics Engineering

Name of Department	S.No.	Full name of Course	Weeks	Course Start Date	Mentor
Electronics Engineering Department	Department Elective Courses				
	1.	Spread Spectrum Communication and Jamming	12	27-01-2020	Dr.Ashish Gupta
	2.	Digital IC Design	12	27-01-2020	Prof. Chaitanya R. Dhopte
	3.	Fuzzy Sets, Logic and Systems & Applications	12	27-01-2020	Prof. Praveen Kumar
	Honor Specialization				
	1.	Advance Power Electronics and Control	08	27-01-2020	--
	2.	Integrated Circuits, MOSFETs, Op-Amps and their Applications	12	27-01-2020	--
	3.	High Power Multilevel Converters Analysis, design and operational issues	12	27-01-2020	--
	Minor Specialization				
	1.	Integrated Circuits, MOSFETs, Op-Amps and their Applications	12	27-01-2020	Prof. Deepak Batham
	2.	High Power Multilevel Converters Analysis, design and operational issues	12	27-01-2020	Prof PoojaSahu

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Department of Civil Engineering

Name of Department	S.No.	Full name of Course	Weeks	Course Start Date	Mentor
Civil Engineering Department	Department Elective Courses				
	1.	Energy Efficiency, Acoustics and Daylighting in Building	12	27-01-2020	Prof. A.K.Saxena and Prof. Almas Siiqui
	2.	Maintenance and Repair of Concrete Structures	12	27-01-2020	Prof. Archana Tiwari and Dr. Pankaj Kumar
	3.	Geotechnical Engineering II Foundation Engineering	12	27-01-2020	Dr. Pratibha Singh and Prof. Shivenra Singh Kushwah
	Honor Specialization				
	1.	Structural Dynamics	12	27-01-2020	Dr. Pankaj Kumar
	2.	Characterization of Construction Materials	12	27-01-2020	Dr. Pratibha Singh
	3.	Environmental Remediation of Contaminated Sites	12	27-01-2020	Dr. M.K.Trivedi
	Minor Specialization				
	1.	Introuction to Civil Engineering Profession	8	27-01-2020	Prof. D. Rastogi
	2.	Plastic Waste Management	8	27-01-2020	Prof. Gagan Mudgal

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Department of Electrical Engineering

Name of Department	S.No.	Full name of Course	Weeks	Course Start Date	Mentor
Electrical Engineering Department	Department Elective Courses				
	1.	Non Conventional Energy Resources (IITM)	12 Weeks	27-Jan-20	Prof. GK Naveen, Prof. Vishal Chaudhary.
	2.	DC Power Transmission Systems (IITM) New	12 Weeks	27-Jan-20	Prof. Bhavna Rathore, Prof. shweta Kuamri
	Honor Specialization				
	1.	The Joy of Computing using Python	12 Weeks	January 27, 2020	Prof.G K Naveen
	2.	Programming, Data Structures And Algorithms Using Python	8 Weeks	January 27, 2020	Prof.Rahul Sagwal
	3.	Machine Learning, ML	8 Weeks	February 24, 2020	Dr.Hari Mohan Dubey
	4.	An Introduction to Artificial Intelligence	12 Weeks	January 27, 2020	Dr.Laxmi Srivastava
	5.	Artificial Intelligence : Knowledge Representation And Reasoning	12 Weeks	January 27, 2020	Prof.Shweta Kumari,Prof.Aparajita Kumari
	6.	Fundamentals of semiconductor devices	12 Weeks	January 27, 2020	Prof.Manoj Kumar,Prof.Avinash Sharma
	7.	Power Quality Improvement Technique	8 Weeks	January 27, 2020	Prof.Praveen Bansal
	Minor Specialization				
	1.	Fundamentals of semiconductor devices	8 Weeks	January 27, 2020	Prof. Manoj Kumar
	2.	Power System Engineering	12 Weeks	January 27, 2020	Prof G.K. Naveen Kumar
	3.	Fuzzy Sets, Logic and Systems & Applications	12 weeks	January 27, 2020	Dr. A.K. Wadhvani
	4.	Non-Conventional Energy Resources	12 Weeks	January 27, 2020	Prof. Vishal Chaudhary
	5.	DC Power Transmission Systems (IITM) New	12 Weeks	January 27, 2020	Prof. Bhavna Rathore

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Department of Mechanical and Automobile Engineering

Name of Department	S.No.	Full name of Course	Weeks	Course Start Date	Mentor
Mechanical Engineering	Department Elective Courses				
	1.	Power plant engineering	8 weeks	27-01-2020	Prof. Bhupendra Kumar Pandey & Prof. Utkarsh Srivastava
	2.	Fundamental of welding science and technology	8 weeks	27-01-2020	Prof RP Kori and Prof Kaustubh Khot
	3.	Gear and gear unit design: Theory and practices	8 weeks	24-02-2020	Prof Vaibhav Shivhare and Prof Ajay Rajput
	Honor Specialization				
	1.	Conduction and convection heat transfer	12 weeks	27-01-2020	Prof. Bhupendra Kumar Pandey & Prof. Utkarsh Srivastava
	2.	Failure analysis and Prevention	8 weeks	24-02-2020	Prof. Sharad Aggarwal and Prof Sarvesh Yadav
	3.	Six Sigma	12 weeks	27-01-2020	Dr Manish Sagar and Prof Sumeet Singh
	Minor Specialization				
	1.	Introduction to Fluid mechanics	12 weeks	27-01-2020	Dr Jyoti Vimal and Prof Puneet Neema
	2.	Operation management	12 weeks	27-01-2020	Dr Manish Sagar and Prof Shubham Srivastava

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Automobile Engineering

Name of Department	S.No.	Full name of Course	Weeks	Course Start Date	Mentor
Automobile Engineering	Department Elective Courses				
	1.	Fundamental of combustion and propulsion	8 weeks	27-01-2020	Prof Puneet Neema
	2.	Robotics and control: Theory and practice	8 weeks	27-01-2020	Prof Neeraj Mishra
	3.	Fundamental of Automotive system	12 weeks	27-01-2020	Dr Dharmendra Jain
	Honor Specialization				
	1.	Conduction and convection heat transfer	12 weeks	27-01-2020	Prof. Bhupendra Kumar Pandey & Prof. Utkarsh Srivastava
	2.	Failure analysis and Prevention	8 weeks	24-02-2020	Prof. Sharad Aggarwal and Prof Sarvesh Yadav
	3.	Six Sigma	12 weeks	27-01-2020	Dr Manish Sagar and Prof Sumeet Singh
	Minor Specialization				
	1.	Introduction to Fluid mechanics	12 weeks	27-01-2020	Dr Jyoti Vimal and Prof Puneet Neema
	2.	Operation management	12 weeks	27-01-2020	Dr Manish Sagar and Prof Shubham Srivastava

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Department of Biotechnology

Name of Department	S.No.	Full name of Course	Weeks	Course Start Date	Mentor
Biotech Engineering	Department Elective Courses				
	1.	Principle and applications of NMR spectroscopy	08 Weeks	January 27, 2020	Dr. Sunita Sharma
	2.	Principle and applications of NMR spectroscopy	08 Weeks	January 27, 2020	Dr. Sunita Sharma

Department of Architecture

Department Elective Courses					
Architecture	1.	Sustainable Architecture	12 Weeks	27 Jan 2020	Priya Gupta

Prof.Praveen Bansal
Incharge,NPTEL Local Chapter

Dr.Sunita Sharma
Associate SWAYAM Coordinator

Copy to:

1. All SWAYAM Coordinators with a request to motive students for registration.
2. All HoDs with a request to display on notice boards.
3. Dean Academics.