

MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR

List of offered Elective/Honor/Minor/Self study courses offered in V and VII semester for session July-Dec 2022

Name of Department	Category	S.No.	Full Name of Course	Weeks	Course Start Date	Course End Date	Exam Date	Mentor from our Institute		
Electronics Engineering	Department Elective Courses	1	Digital Image Processing	12	25-Jul-22	10-14-2022	29-Oct-22	Prof. Pooja Sahoo	https://onlinecourses.nptel.ac.in/noc22_ee116/preview	
		2	Introduction to Wireless and Cellular Communications	12	25-Jul-22	10-14-2022	30-Oct-22	Prof. Madhav Singh	https://onlinecourses.nptel.ac.in/noc22_ee85/preview	
	Honor Specialization (V Sem)	1	Principles and Techniques of Modern Radar Systems	12	25-Jul-22	10-14-2022	29-Oct-22	Prof. Madhav Singh	https://onlinecourses.nptel.ac.in/noc22_ee114/preview	
		2	Signal Processing for mm Wave communication for 5G and beyond	12	25-Jul-22	14-Oct-22	30-Oct-22	Dr Karuna Markam	https://onlinecourses.nptel.ac.in/noc22_ee102/preview	
	Minor Specilization (V Sem)	1	Hardware modeling using Verilog	8	25-Jul-22	09-16-2022	25-Sep-22	Dr Varun Sharma	https://onlinecourses.nptel.ac.in/noc22_cs94/preview	
		2	System Design Through VERILOG	8	25-Jul-22	09-16-2022	25-Sep-22	Dr Varun Sharma	https://onlinecourses.nptel.ac.in/noc22_ee104/preview	
	Honor Specialization (VII Sem)	1	Analog Electronic Circuit	12	25-Jul-22	10-14-2022	30-Oct-22	Dr Vandana Vikas Thakre	https://onlinecourses.nptel.ac.in/noc22_ee74/preview	
		2	Control Systems	12	25-Jul-22	10-14-2022	29-Oct-22	Dr R P Narwaria	https://onlinecourses.nptel.ac.in/noc22_de09/preview	
	Minor Specialization (VII Sem)	1	Introduction to Wireless and Cellular Communications	12	25-Jul-22	10-14-2022	30-Oct-22	Prof. Madhav Singh	https://onlinecourses.nptel.ac.in/noc22_ee85/preview	
		2	Principles and Techniques of Modern Radar Systems	12	25-Jul-22	10-14-2022	29-Oct-22	Prof. Madhav Singh	https://onlinecourses.nptel.ac.in/noc22_ee114/preview	
	Electronics and Telecommunications Engineering	Department Elective Courses	1	Digital Image Processing	12	25-Jul-22	10-14-2022	29-Oct-22	Prof. Pooja Sahoo	https://onlinecourses.nptel.ac.in/noc22_ee116/preview
			2	Introduction to Wireless and Cellular Communications	12	25-Jul-22	10-14-2022	30-Oct-22	Prof. Madhav Singh	https://onlinecourses.nptel.ac.in/noc22_ee85/preview
		Honor Specialization (V Sem)	1	Principles and Techniques of Modern Radar Systems	12	25-Jul-22	10-14-2022	29-Oct-22	Prof. Madhav Singh	https://onlinecourses.nptel.ac.in/noc22_ee114/preview
			2	Signal Processing for mm Wave communication for 5G and beyond	12	25-Jul-22	14-Oct-22	30-Oct-22	Dr Karuna Markam	https://onlinecourses.nptel.ac.in/noc22_ee102/preview
Minor Specilization (V Sem)		1	Hardware modeling using Verilog	8	25-Jul-22	09-16-2022	25-Sep-22	Dr Varun Sharma	https://onlinecourses.nptel.ac.in/noc22_cs94/preview	
		2	System Design Through VERILOG	8	25-Jul-22	09-16-2022	25-Sep-22	Dr Varun Sharma	https://onlinecourses.nptel.ac.in/noc22_ee104/preview	
Honor Specialization (VII Sem)		1	Analog Electronic Circuit	12	25-Jul-22	10-14-2022	30-Oct-22	Dr Vandana Vikas Thakre	https://onlinecourses.nptel.ac.in/noc22_ee74/preview	
		2	Control Systems	12	25-Jul-22	10-14-2022	29-Oct-22	Dr R P Narwaria	https://onlinecourses.nptel.ac.in/noc22_de09/preview	
Minor Specialization (VII Sem)		1	Introduction to Wireless and Cellular Communications	12	25-Jul-22	10-14-2022	30-Oct-22	Prof. Madhav Singh	https://onlinecourses.nptel.ac.in/noc22_ee85/preview	
		2	Principles and Techniques of Modern Radar Systems	12	25-Jul-22	10-14-2022	29-Oct-22	Prof. Madhav Singh	https://onlinecourses.nptel.ac.in/noc22_ee114/preview	
Electrical Engineering		Department Elective Courses	1	Introduction to Smart Grid	8 Weeks	July 25, 2022	September 16, 2022	25-Sep-22	Dr. H. Singh	https://onlinecourses.nptel.ac.in/noc22_ee82/preview
			2	Fundamentals of Electric Drives	8 Weeks	July 25, 2022	September 16, 2022	25-Sep-22	Prof. Manoj Kumar	https://onlinecourses.nptel.ac.in/noc22_ee94/preview
		Honor Specialization (V Sem)	1	Introduction to internet of things	12 Weeks	July 25, 2022	October 14, 2022	October 29, 2022	Prof. Bhavna Rathore	https://onlinecourses.nptel.ac.in/noc22_cs96/preview
			2	Introduction to Industry 4.0 and Industrial Internet of Things	12 Weeks	July 25, 2022	October 14, 2022	October 30, 2022	Prof. Praveen Bansal	https://onlinecourses.nptel.ac.in/noc22_cs95/preview
	Minor Specilization (V Sem)	3	Design of photovoltaic systems	12 Weeks	July 25, 2022	October 14, 2022	October 30, 2022	Prof. Saurabh K Rajput	https://onlinecourses.nptel.ac.in/noc22_ee71/preview	
		4	Introduction To Machine Learning	12 Weeks	July 25, 2022	October 14, 2022	October 29, 2022	Dr Vikram	https://onlinecourses.nptel.ac.in/noc22_cs73/preview	
	Honor Specialization (VII Sem)	5	Programming, Data Structures And Algorithms Using Python	8 Weeks	July 25, 2022	September 16, 2022	25-Sep-22	Prof. Nipun Gupta	https://onlinecourses.nptel.ac.in/noc22_cs70/preview	
		1	Basic Electrical Circuits (Track A: Power Systems and Power Electronics)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Saurabh K. Rajput	https://onlinecourses.nptel.ac.in/noc22_ee90/preview	
	Minor Specilization (VII Sem)	2	Control engineering (Track A: Power Systems and Power Electronics)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Ashis Patra	https://onlinecourses.nptel.ac.in/noc22_ee83/preview	
		3	Electrical Machines - I (Track A: Power Systems and Power Electronics)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Nipun Gupta	https://onlinecourses.nptel.ac.in/noc22_ee111/preview	
	Honor Specialization (V Sem)	4	Electrical Measurement and Electronic Instruments (Track A: Power Systems and Power Electronics)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Ankit Tiwari	https://onlinecourses.nptel.ac.in/noc22_ee112/preview	
		5	Basic Electrical Circuits (Track B: Control and Instrumentation)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Saurabh K. Rajput	https://onlinecourses.nptel.ac.in/noc22_ee90/preview	
	Minor Specilization (VII Sem)	6	Control engineering (Track B: Control and Instrumentation)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Ashis Patra	https://onlinecourses.nptel.ac.in/noc22_ee83/preview	
		7	Electrical Measurement and Electronic Instruments (Track B: Control and Instrumentation)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Ankit Tiwari	https://onlinecourses.nptel.ac.in/noc22_ee112/preview	
Honor Specialization (VII Sem)	8	Linear Systems Theory (Track B: Control and Instrumentation)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Dr. Vikram	https://onlinecourses.nptel.ac.in/noc22_ee84/preview		
	1	Power System Analysis	12 Weeks	July 25, 2022	October 14, 2022	October 30, 2022	Prof. Vishal Chaudhary	https://onlinecourses.nptel.ac.in/noc22_ee120/preview		
Minor Specilization (VII Sem)	2	Introduction to Industry 4.0 and Industrial Internet of Things	12 Weeks	July 25, 2022	October 14, 2022	October 30, 2022	Prof. Praveen Bansal	https://onlinecourses.nptel.ac.in/noc22_cs95/preview		
	3	DC Microgrid and Control System	8 Weeks	July 25, 2022	September 16, 2022	25-Sep-22	Prof. Nikhil Paliwal	https://onlinecourses.nptel.ac.in/noc22_ee81/preview		
Honor Specialization (V Sem)	4	Programming, Data Structures And Algorithms Using Python	8 Weeks	July 25, 2022	September 16, 2022	September 25, 2022	Prof. Nipun Gupta	https://onlinecourses.nptel.ac.in/noc22_cs70/preview		
	5	Introduction To Machine Learning	12 Weeks	July 25, 2022	October 14, 2022	October 29, 2022	Dr Vikram	https://onlinecourses.nptel.ac.in/noc22_cs73/preview		
Minor Specilization (VII Sem)	1	Basic Electrical Circuits (Track A: Power Systems and Power Electronics)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Saurabh K. Rajput	https://onlinecourses.nptel.ac.in/noc22_ee90/preview		
	2	Control engineering (Track A: Power Systems and Power Electronics)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Ashis Patra	https://onlinecourses.nptel.ac.in/noc22_ee83/preview		
Honor Specialization (VII Sem)	3	Electrical Machines - I (Track A: Power Systems and Power Electronics)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Nipun Gupta	https://onlinecourses.nptel.ac.in/noc22_ee111/preview		
	4	Electrical Measurement and Electronic Instruments (Track A: Power Systems and Power Electronics)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Ankit Tiwari	https://onlinecourses.nptel.ac.in/noc22_ee112/preview		
Minor Specilization (VII Sem)	5	Basic Electrical Circuits (Track B: Control and Instrumentation)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Saurabh K. Rajput	https://onlinecourses.nptel.ac.in/noc22_ee90/preview		
	6	Control engineering (Track B: Control and Instrumentation)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Ashis Patra	https://onlinecourses.nptel.ac.in/noc22_ee83/preview		
Honor Specialization (VII Sem)	7	Electrical Measurement and Electronic Instruments (Track B: Control and Instrumentation)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Ankit Tiwari	https://onlinecourses.nptel.ac.in/noc22_ee112/preview		
	8	Linear Systems Theory (Track B: Control and Instrumentation)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Dr. Vikram	https://onlinecourses.nptel.ac.in/noc22_ee84/preview		
Honor Specialization (V Sem)	1	Software Engineering	12 Weeks	Jul 25, 2022	October 14, 2022	October 30, 2022	Prof. Praveen Bansal	https://onlinecourses.nptel.ac.in/noc22_cs106/preview		
	2	Introduction To Machine Learning	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Dr Vikram	https://onlinecourses.nptel.ac.in/noc22_cs73/preview		
Minor Specilization	3	Computer Graphics	8 weeks	Jul 25, 2022	September 16, 2022	September 25, 2022	Prof. Bhavna Rathore	https://onlinecourses.nptel.ac.in/noc22_cs111/preview		
	4	Programming, Data Structures And Algorithms Using Python	8 Weeks	Jul 25, 2022	September 16, 2022	September 25, 2022	Prof. Nipun Gupta	https://onlinecourses.nptel.ac.in/noc22_cs70/preview		
Minor Specilization	1	Basic Electrical Circuits (Track A: Power Systems and Power Electronics)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Saurabh K. Rajput	https://onlinecourses.nptel.ac.in/noc22_ee90/preview		

EEIOT	(V Sem)	2	Control engineering (Track A: Power Systems and Power Electronics)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Ashis Patra	https://onlinecourses.nptel.ac.in/noc22_ee83/preview
		3	Electrical Machines - I (Track A: Power Systems and Power Electronics)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Nipun Gupta	https://onlinecourses.nptel.ac.in/noc22_ee111/preview
		4	Electrical Measurement and Electronic Instruments (Track A: Power Systems and Power Electronics)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Ankit Tiwari	https://onlinecourses.nptel.ac.in/noc22_ee112/preview
		5	Basic Electrical Circuits (Track B: Control and Instrumentation)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Saurabh K. Rajput	https://onlinecourses.nptel.ac.in/noc22_ee90/preview
		6	Control engineering (Track B: Control and Instrumentation)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Ashis Patra	https://onlinecourses.nptel.ac.in/noc22_ee83/preview
		7	Electrical Measurement and Electronic Instruments (Track B: Control and Instrumentation)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Prof. Ankit Tiwari	https://onlinecourses.nptel.ac.in/noc22_ee112/preview
		8	Linear Systems Theory (Track B: Control and Instrumentation)	12 Weeks	Jul 25, 2022	October 14, 2022	October 29, 2022	Dr. Vikram	https://onlinecourses.nptel.ac.in/noc22_ee84/preview
		Civil Engineering	Department Elective Courses (VII SEM) Online	1	Waste Water Treatment & Recycling	12	25/7/2022	14/10/2022	29/10/2022
2	Principles of Construction Management			8	25/7/2022	16/9/2022	25/9/2022	Prof. G Bhadoriya	https://onlinecourses.nptel.ac.in/noc22_ce56/preview
3	Advanced Geomatics Engineering			12	25/7/2022	14/10/2022	29/10/2022	Adhoc Faculty	https://onlinecourses.nptel.ac.in/noc22_ce78/preview
Honor Specialization (V Sem)	1		Integrated Waste Management for Smart City	12	25/7/2022	14/10/2022	30/10/2022	Adhoc Faculty	https://onlinecourses.nptel.ac.in/noc22_ce69/preview
	2		Introduction To Multimodal Urban Transportation Systems (MUTS)	12	25/7/2022	14/10/2022	29/10/2022	Dr Jayvant Choudhary	https://onlinecourses.nptel.ac.in/noc22_ce70/preview
	3		Matrix Method Of Structural Analysis	8	25/7/2022	16/9/2022	25/9/2022	Dr S Tiwari	https://onlinecourses.nptel.ac.in/noc22_ce71/preview
	4		Advanced Concrete Technology	12	25/7/2022	14/10/2022	30/10/2022	Dr Abhilash Shukla	https://onlinecourses.nptel.ac.in/noc22_ce58/preview
Minor Specilization (V Sem)	1		Building Materials And Composites	8	25/7/2022	16/9/2022	25/9/2022	Prof Archana Tiwari	https://onlinecourses.nptel.ac.in/noc22_ar14/preview
	2		Strength Of Materials	12	25/7/2022	14/10/2022	30/10/2022	Dr Hemant Shrivastava	https://onlinecourses.nptel.ac.in/noc22_ce75/preview
	3		Fluid Mechanics	12	25/7/2022	14/10/2022	29/10/2022	Dr R Kansal	https://onlinecourses.nptel.ac.in/noc22_ce85/preview
Honor Specialization (VII Sem)	1		Theory of Elasticity	12	25/7/2022	14/10/2022	29/10/2022	Dr Hemant Shrivastava	https://onlinecourses.nptel.ac.in/noc22_ce103/preview
	2		Bridge Engineering	12	25/7/2022	14/10/2022	29/10/2022	Dr S K Jain	https://onlinecourses.nptel.ac.in/noc22_ce63/preview
	3		Ground Improvement	12	25/7/2022	14/10/2022	30/10/2022	Dr Chayan Gupta	https://onlinecourses.nptel.ac.in/noc22_ce68/preview
Minor Specialization (VII Sem)	1		Geometric Design of Highways	12	25/7/2022	14/10/2022	29/10/2022	Dr Jayvant Choudhary	https://onlinecourses.nptel.ac.in/noc22_ce94/preview
	2		Soil Mechanics/Geotechnical Engineering I	12	25/7/2022	14/10/2022	30/10/2022	Dr M K Trivedi	https://onlinecourses.nptel.ac.in/noc22_ce74/preview
Computer Science Engineering	Department Elective Courses (VII SEM) Online	1	Software Testing	12	25 Jul 2022	14 Oct 2022	30 Oct 2022	Prof. Jaimala Jha	https://onlinecourses.nptel.ac.in/noc22_cs61/preview
		2	Big Data Computing	8	22 Aug 2022	14 Oct 2022	29 Oct 2022	Prof. Arun Kumar	https://onlinecourses.nptel.ac.in/noc22_cs65/preview
		3	Introduction To Machine Learning	8	25 Jul 2022	16 Sep 2022	25 Sep 2022	Dr. Ranjeet Singh	https://onlinecourses.nptel.ac.in/noc22_cs97/preview
	Honor Specialization (V Sem)	1	The Joy of Computing using Python	12	25 Jul 2022	14 Oct 2022	30 Oct 2022	Prof. Arun Kumar	https://onlinecourses.nptel.ac.in/noc22_cs122/preview
		2	Programming In Java	12	25 Jul 2022	14 Oct 2022	30 Oct 2022	Dr. Rajni Ranjan Singh	https://onlinecourses.nptel.ac.in/noc22_cs102/preview
		3	Programming In Modern C++	12	25 Jul 2022	14 Oct 2022	29 Oct 2022	Prof. Mahesh Parmar	https://onlinecourses.nptel.ac.in/noc22_cs103/preview
	Minor Specilization (V Sem)	1	Introduction to Operating Systems	8	25 Jul 2022	16 Sep 2022	25 Sep 2022	Dr. Rajni Ranjan Singh	https://onlinecourses.nptel.ac.in/noc22_cs78/preview
		2	Computer Architecture And Organization	12	25 Jul 2022	14 Oct 2022	29 Oct 2022	Dr. R.K Gupta	https://onlinecourses.nptel.ac.in/noc22_cs88/preview
		3	Programming, Data Structures And Algorithms Using Python	8	25 Jul 2022	16 Sep 2022	25 Sep 2022	Prof. Khushboo Agarwal	https://onlinecourses.nptel.ac.in/noc22_cs70/preview
	Honor Specialization (VII Sem)	1	Multi-Core Computer Architecture - Storage and Interconnects	8	25 Jul 2022	16 Sep 2022	25 Sep 2022	Dr. R.K Gupta	https://onlinecourses.nptel.ac.in/noc22_cs110/preview
		2	Parameterized Algorithms	12	25 Jul 2022	14 Oct 2022	29 Oct 2022	Prof. Amit Manjhar	https://onlinecourses.nptel.ac.in/noc22_cs81/preview
		3	Software Project Management	12	25 Jul 2022	14 Oct 2022	30 Oct 2022	Prof. Amit Manjhar	https://onlinecourses.nptel.ac.in/noc22_cs107/preview
	Minor Specialization (VII Sem)	1	Design and analysis of algorithms	8	25 Jul 2022	16 Sep 2022	25 Sep 2022	Dr. Ranjeet Singh	https://onlinecourses.nptel.ac.in/noc22_cs71/preview
		2	Software Testing	12	25 Jul 2022	14 Oct 2022	30 Oct 2022	Prof. Jaimala Jha	https://onlinecourses.nptel.ac.in/noc22_cs61/preview
		3	Computer Graphics	8	25 Jul 2022	09-16-2022	25 Sep 2022	Dr. Manish Dixit	https://onlinecourses.nptel.ac.in/noc22_cs111/preview
Mathematics and Computing	Honor Specialization (V Sem)	1	Transport Phenomena of Non-Newtonian Fluids	12	Jul 25, 2022	Oct 14, 2022	Oct 30, 2022		https://onlinecourses.nptel.ac.in/noc22_ch53/preview
		2	Big Data Computing	12	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022		https://onlinecourses.nptel.ac.in/noc22_cs65/preview
		3	Deep Learning for Computer Vision	12	Jul 25, 2022	10-14-2022	Oct 30, 2022		https://onlinecourses.nptel.ac.in/noc22_cs76/preview
	Minor Specilization (V Sem)	1	First Course on Partial Differential Equations	8	Jul 25, 2022	09-16-2022	Sep 25, 2022		https://onlinecourses.nptel.ac.in/noc22_ma74/preview

Chemical Engg.	Department Elective Courses (VII SEM) Online	2	Introduction To Methods of Applied Mathematics	12	Jul 25, 2022	10-14-2022	Oct 29, 2022	https://onlinecourses.nptel.ac.in/noc22_ma52/preview
		3	Matrix Analysis with Its Applications	8	Jul 25, 2022	09-16-2022	Sep 25, 2022	https://onlinecourses.nptel.ac.in/noc22_ma53/preview
		1	Chemical Process Safety	12	Jul 25, 2022	Oct 14, 2022	Oct 30, 2022	Dr. Shourabh Singh Raghuwanshi https://onlinecourses.nptel.ac.in/noc22_ch44/preview
		2	Energy conservation and waste heat recovery	12	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Prof. Swati Gupta https://onlinecourses.nptel.ac.in/noc22_me104/preview
	3	Principles and Practices of Process Equipment and Plant Design	12	Jul 25, 2022	Oct 14, 2022	Oct 30, 2022	Dr. R.K.Dubey https://onlinecourses.nptel.ac.in/noc22_ch48/preview	
	4	Thermal Processing of Foods	12	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Prof. Anish P.Jacob https://onlinecourses.nptel.ac.in/noc22_ch59/preview	
	Honor Specialization (V Sem)	1	Technologies For Clean And Renewable Energy Production	8	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Prof. Swati Gupta https://onlinecourses.nptel.ac.in/noc22_ch38/preview
		2	Chemical Process Intensification	12	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Prof. Anish P.Jacob https://onlinecourses.nptel.ac.in/noc22_ch55/preview
		3	Basic Environmental Engineering and Pollution Abatement	12	Jul 25, 2022	10-14-2022	Oct 29, 2022	Dr. Shourabh Singh Raghuwanshi https://onlinecourses.nptel.ac.in/noc22_ch45/preview
	Minor Specialization (V Sem)	1	Heat Transfer	12	Jul 25, 2022	10-14-2022	Oct 30, 2022	Dr. R.K.Dubey https://onlinecourses.nptel.ac.in/noc22_ch65/preview
		2	Chemical Reaction Engineering-I	12	Jul 25, 2022	10-14-2022	Oct 30, 2022	Prof. Anish P.Jacob https://onlinecourses.nptel.ac.in/noc22_ch51/preview
		3	Mechanical Unit Operations	12	Jul 25, 2022	10-14-2022	Oct 30, 2022	Dr. R.K.Dubey https://onlinecourses.nptel.ac.in/noc22_ch54/preview
	Honor Specialization (VII Sem)	1	Colloids and Surfaces	8	Jul 25, 2022	09-16-2022	Sep 25, 2022	Prof. Anish P.Jacob https://onlinecourses.nptel.ac.in/noc22_ch42/preview
		2	Trace and ultra-trace analysis of metals using atomic absorption spectrometry	8	Jul 25, 2022	09-16-2022	Sep 25, 2022	Dr. Shourabh Singh Raghuwanshi https://onlinecourses.nptel.ac.in/noc22_ch41/preview
		3	Heat Exchangers: Fundamentals and Design Analysis	12	Jul 25, 2022	10-14-2022	Oct 29, 2022	Dr. R.K.Dubey https://onlinecourses.nptel.ac.in/noc22_me106/preview
	Minor Specialization (VII Sem)	1	Fluidization Engineering	12	Jul 25, 2022	10-14-2022	Oct 29, 2022	Dr. Shourabh Singh Raghuwanshi https://onlinecourses.nptel.ac.in/noc22_ch56/preview
2		Polymers: concepts, properties, uses and sustainability	12	Jul 25, 2022	10-14-2022	Oct 30, 2022	Dr. R.K.Dubey https://onlinecourses.nptel.ac.in/noc22_ch43/preview	
3		Transport Phenomena of Non-Newtonian Fluids	12	Jul 25, 2022	Oct 14, 2022	Oct 30, 2022	Prof. Swati Gupta https://onlinecourses.nptel.ac.in/noc22_ch53/preview	
Information Technology	Department Elective Courses (VII SEM) Online	1	Scalable Data Science	8 Weeks	25/07/2022	16/09/2022	25/09/2022	Prof. Vikas Sejwar
		2	Social Networks	12 Weeks	25/07/2022	14/10/2022	30/10/2022	Prof. Namrata Agarwal
		3	Big Data Computing	8 Weeks	22/8/2022	14/10/2022	29/10/2022	Dr. Sanjiv Sharma
	Honor Specialization (V Sem)	1	Distributed Systems	8	Jul 25, 2022	09-16-2022	Sep 25, 2022	Dr. Sanjiv Sharma https://onlinecourses.nptel.ac.in/noc22_cs66/preview
		2	Software Project Management	12	Jul 25, 2022	Oct 14, 2022	Oct 30, 2022	Prof. Vikas Sejwar https://onlinecourses.nptel.ac.in/noc22_cs107/preview
		3	The Joy of Computing using Python	12	Jul 25, 2022	10-14-2022	Oct 30, 2022	Dr. Dhananjay Bisen https://onlinecourses.nptel.ac.in/noc22_cs122/preview
	Minor Specialization (V Sem)	1	Programming in Java	12	Jul 25, 2022	10-14-2022	Oct 30, 2022	Dr. Vikram Rajpoot https://onlinecourses.nptel.ac.in/noc22_cs102/preview
		2	Programming, Data Structures And Algorithms Using Python	8	Jul 25, 2022	09-16-2022	Sep 25, 2022	Prof. Mir Shah Nawaz Ahmad https://onlinecourses.nptel.ac.in/noc22_cs70/preview
		3	Introduction to Operating Systems	8	Jul 25, 2022	09-16-2022	Sep 25, 2022	Prof. Abhishek Dixit https://onlinecourses.nptel.ac.in/noc22_cs78/preview
	Honor Specialization (VII Sem)	1	Computer Vision	12	Jul 25, 2022	10-14-2022	Oct 29, 2022	Dr. Pawan Dubey https://onlinecourses.nptel.ac.in/noc22_cs89/preview
		2	Deep Learning	12	Jul 25, 2022	10-14-2022	Oct 30, 2022	Prof. Punit Kumar Johari https://onlinecourses.nptel.ac.in/noc22_cs124/preview
		3	Distributed Systems	8	Jul 25, 2022	09-16-2022	Sep 25, 2022	Dr. Nidhi Saxena https://onlinecourses.nptel.ac.in/noc22_cs66/preview
	Minor Specialization (VII Sem)	1	Introduction to Machine Learning	12	Jul 25, 2022	10-14-2022	Oct 29, 2022	Dr. Saumil Maheshwari https://onlinecourses.nptel.ac.in/noc22_cs73/preview
		2	Data Science for Engineers	8	Jul 25, 2022	09-16-2022	Sep 25, 2022	Dr. Bhagat Singh Raghuwansi https://onlinecourses.nptel.ac.in/noc22_cs72/preview
		1	Real-Time Systems	12	Jul 25, 2022	10-14-2022	Oct 30, 2022	Prof. Neha Bhardwaj https://onlinecourses.nptel.ac.in/noc22_cs104/preview
	Honor Specialization (V Sem)	2	MultiCore Computer Architecture-Storage and Interconnects	8	Jul 25, 2022	09-16-2022	Sep 25, 2022	Prof. Punit Kumar Johari https://onlinecourses.nptel.ac.in/noc22_cs110/preview
1		Hardware Modeling Using Verilog	8	Jul 25, 2022	09-16-2022	Sep 25, 2022	Dr. Nidhi Saxena https://onlinecourses.nptel.ac.in/noc22_cs94/preview	
2		Design & Implementation of Human-Computer Interfaces	12	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Dr. Tej Singh https://onlinecourses.nptel.ac.in/noc22_cs125/preview	
Minor Specialization (V Sem)	3	The Joy of Computing using Python	12	Jul 25, 2022	10-14-2022	Oct 30, 2022	Dr. Dhananjay Bisen https://onlinecourses.nptel.ac.in/noc22_cs122/preview	
	1	Introduction To Internet Of Things	12	Jul 25, 2022	10-14-2022	Oct 29, 2022	Prof. Abhilash Sonker https://onlinecourses.nptel.ac.in/noc22_cs96/preview	
	2	Introduction to Operating Systems	8	Jul 25, 2022	09-16-2022	Sep 25, 2022	Prof. Abhishek Dixit https://onlinecourses.nptel.ac.in/noc22_cs78/preview	
Honor Specialization (V Sem)	3	Programming, Data Structures And Algorithms Using Python	8	Jul 25, 2022	09-16-2022	Sep 25, 2022	Prof. Mir Shah Nawaz Ahmad https://onlinecourses.nptel.ac.in/noc22_cs70/preview	
	1	Machine Learning for Earth System Sciences	8	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Dr. Bhagat Singh Raghuwansi https://onlinecourses.nptel.ac.in/noc22_cs119/preview	
	2	Design & Implementation of Human-Computer Interfaces	12	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Dr. Tej Singh https://onlinecourses.nptel.ac.in/noc22_cs125/preview	
Minor Specialization (V Sem)	3	The Joy of Computing using Python	12	Jul 25, 2022	Oct 14, 2022	Oct 30, 2022	Dr. Dhananjay Bisen https://onlinecourses.nptel.ac.in/noc22_cs122/preview	
	1	Introduction to Machine Learning	12	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Dr. Vikram Rajpoot https://onlinecourses.nptel.ac.in/noc22_cs73/preview	
	2	Introduction to Operating Systems	8	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Prof. Mir Shah Nawaz Ahmad https://onlinecourses.nptel.ac.in/noc22_cs78/preview	
Minor Specialization (V Sem)	3	Programming, Data Structures And Algorithms Using Python	8	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Prof. Abhishek Dixit https://onlinecourses.nptel.ac.in/noc22_cs70/preview	
	Department Elective Courses (VII SEM) Online	1	Foundation of Computational Fluid Dynamics	8	25/7/2022	16/9/2022	25/9/2022	Dr. Ashish Aggarwal https://onlinecourses.nptel.ac.in/noc22_me85/preview
		2	Introduction to Composites	12	25/7/2022	14/10/2022	30/10/2022	Dr. Dinesh Kumar Rathore https://onlinecourses.nptel.ac.in/noc22_me87/preview
3		Advanced Machining Processes	8	22/8/2022	14/10/2022	29/10/2022	Dr. S.K. Chorasiya https://onlinecourses.nptel.ac.in/noc22_me119/preview	
Honor Specialization (V Sem)	1	Principle of Hydraulic Machines and System Design	12	25/7/2022	14/10/2022	30/10/2022	Dr. R.K. Ranjan https://onlinecourses.nptel.ac.in/noc22_me114/preview	
	2	System Design for Sustainability	12	25/7/2022	14/10/2022	29/10/2022	Dr. M.K. Sagar https://onlinecourses.nptel.ac.in/noc22_de12/preview	
	3	Manufacturing Systems Technology I & II	12	25/7/2022	14/10/2022	29/10/2022	Dr. Amit Aherwar https://onlinecourses.nptel.ac.in/noc22_me80/preview	

Mechanical Engineering	Minor Specialization (V Sem)	1	Basics of Materials Engineering	12	25/7/2022	14/10/2022	29/10/2022	Dr Jyoti Vimal	https://onlinecourses.nptel.ac.in/noc22_me90/preview
		2	Fluid mechanics	12	25/7/2022	14/10/2022	29/10/2022	Prof Utkarsh Srivastava	https://onlinecourses.nptel.ac.in/noc22_ce85/preview
	Honor Specialization (VII Sem)	1	Fundamentals Of Artificial Intelligence	12	25/7/2022	14/10/2022	29/10/2022	Prof Ajay Rajput	https://onlinecourses.nptel.ac.in/noc22_ge29/preview
		2	Rapid Manufacturing	12	25/7/2022	14/10/2022	29/10/2022	Dr Sharad Aggarwal	https://onlinecourses.nptel.ac.in/noc22_me74/preview
		3	Heat Exchangers: Fundamentals and Design Analysis	12	25/7/2022	14/10/2022	29/10/2022	Dr M.K Gaur	https://onlinecourses.nptel.ac.in/noc22_me106/preview
	Minor Specialization (VII Sem)	1	Engineering Metrology	12	25/7/2022	14/10/2022	30/10/2022	Prof V. Chaturvedi	https://onlinecourses.nptel.ac.in/noc22_me75/preview
2		Applied Thermodynamics for Engineers	12	25/7/2022	14/10/2022	29/10/2022	Prof B.K Pandey	https://onlinecourses.nptel.ac.in/noc22_me113/preview	
AUTOMOBILE ENGINEERING	Department Elective Courses (VII SEM) Online	1	Farm Machinery	12	25/7/2022	14/10/2022	29/10/2022	Prof S.C Pal	https://onlinecourses.nptel.ac.in/noc22_ag07/preview
		2	Introduction to mechanical vibration	8	25/07/2022	16/09/2022	25/09/2022	Prof Utkarsh Srivastava	https://onlinecourses.nptel.ac.in/noc22_ag07/preview
	Honor Specialization (V Sem)	1	Principle of Hydraulic Machines and System Design	12	25/7/2022	14/10/2022	30/10/2022	Dr R.K Ranjan	https://onlinecourses.nptel.ac.in/noc22_me114/preview
		2	System Design for Sustainability	12	25/7/2022	14/10/2022	29/10/2022	Dr M.K Sagar	https://onlinecourses.nptel.ac.in/noc22_de12/preview
		3	Manufacturing Systems Technology I & II	12	25/7/2022	14/10/2022	29/10/2022	Dr Amit Aherwar	https://onlinecourses.nptel.ac.in/noc22_me80/preview
	Minor Specialization (V Sem)	1	Basics of Materials Engineering	12	25/7/2022	14/10/2022	29/10/2022	Dr Jyoti Vimal	https://onlinecourses.nptel.ac.in/noc22_me90/preview
		2	Fluid mechanics	12	25/7/2022	14/10/2022	29/10/2022	Prof Utkarsh Srivastava	https://onlinecourses.nptel.ac.in/noc22_ce85/preview
	Honor Specialization (VII Sem)	1	Fundamentals Of Artificial Intelligence	12	25/7/2022	14/10/2022	29/10/2022	Prof Ajay Rajput	https://onlinecourses.nptel.ac.in/noc22_ge29/preview
		2	Rapid Manufacturing	12	25/7/2022	14/10/2022	29/10/2022	Dr Sharad Aggarwal	https://onlinecourses.nptel.ac.in/noc22_me74/preview
		3	Heat Exchangers: Fundamentals and Design Analysis	12	25/7/2022	14/10/2022	29/10/2022	Dr M.K Gaur	https://onlinecourses.nptel.ac.in/noc22_me106/preview
	Minor Specialization (VII Sem)	1	Engineering Metrology	12	25/7/2022	14/10/2022	30/10/2022	Prof V. Chaturvedi	https://onlinecourses.nptel.ac.in/noc22_me75/preview
		2	Applied Thermodynamics for Engineers	12	25/7/2022	14/10/2022	29/10/2022	Prof B.K Pandey	https://onlinecourses.nptel.ac.in/noc22_me113/preview
MCA (PG)	Department Elective III Courses	1	Cloud Computing	12 Weeks	25-Jul-22	14-Oct-22	30-Oct-22	Dr. Parul Saxena	https://onlinecourses.nptel.ac.in/noc22_cs87/preview
		2	Big Data Computing	8 Weeks	25-Jul-22	14-Oct-22	30-Oct-22	Dr. Anshu Chaturvedi	https://onlinecourses.nptel.ac.in/noc22_cs65/preview
		3	Deep Learning for Computer Vision	12 Weeks	25-Jul-22	14-Oct-22	30-Oct-22	Dr. R. S. Jadon	https://onlinecourses.nptel.ac.in/noc22_cs76/preview
ARCHITECTURE AND PLANNING	Department Elective Courses (VII SEM)	1	Modern Indian Architecture	8 weeks	22-Aug-22	14-Oct-22	29-Oct-22	Ar. Richa Mishra	https://nptel.ac.in/courses/124107161
		2	Contemporary Architecture and Design	8 weeks	26-Aug-19	Jul 25, 2022	Sep 16, 2022	Ar. Ankit Kumar	https://nptel.ac.in/courses/124107005
		3	Sustainable Architecture	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Ar. Ankit Kumar	https://nptel.ac.in/courses/124107011
	Self Learning Courses (V Sem)	1	International Studies in Vernacular Architecture	4 Weeks	Aug 22, 2022	Sep 16, 2022	Oct 29, 2022	Ar. Pranshi Jain	https://nptel.ac.in/courses/124107162
		2	Modern Indian Architecture	8 weeks	22-Aug-22	14-Oct-22	29-Oct-22	Ar. Richa Mishra	https://nptel.ac.in/courses/124107161
		3	Role of Craft and Technology in Interior - Architecture	8 Weeks	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Ar. Pranshi Jain	https://nptel.ac.in/courses/124107006
		4	Understanding Design	4 weeks	Jul 25, 2022	Aug 19, 2022	Sep 25, 2022	Ar. Versha Sinha	https://nptel.ac.in/courses/107101087
		5	Design Thinking - A Primer	4 Weeks	Aug 22, 2022	Sep 16, 2022	Oct 29, 2022	Ar. Richa Mishra	https://nptel.ac.in/courses/110106124
	Department Elective Courses (IX SEM) Online	1	Introduction to Urban Planning	8 Weeks	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022		https://nptel.ac.in/courses/124107158
		2	Architectural Conservation And Historic Preservation	8 Weeks	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Ar. Versha Sinha	https://nptel.ac.in/courses/124105003
3		Remote Sensing and GIS	8 weeks	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022		https://nptel.ac.in/courses/105103193	
4		Housing Policy & Planning	8 Weeks	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Ar. Satyam Shukla	https://nptel.ac.in/courses/124107001	
5		Design, Technology and Innovation	8 Weeks	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Ar. Satyam Shukla	https://nptel.ac.in/courses/107101088	