

MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

List of offered Elective/Honor/Minor/Self study courses for UG III,V and VII semester for session July-Dec 2020

Name of Department	Category	S.No.	Full Name of Course	Weeks	Start Date	End Date	Exam Date	Mentor of our Institute	URL Link (Swayam Portal)
Electronics Engineering	Department Elective Courses (VII SEM)	1	Digital Image Processing	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Pooja Sahu	https://swayam.gov.in/nd1_noc20_ee75/preview
		2	Introduction to Wireless Cellular Communication	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Madhav Singh	https://swayam.gov.in/nd1_noc20_ee61/preview
		3	Milimeter Wave Technology	8	20-07-2020	11-09-2020	27-09-2020	Prof. D. K. Parsediya	https://swayam.gov.in/nd1_noc20_ee71/preview
	Seminar Self Study Course (III Sem)	1	C Programming and Assembly Language	4	20-07-2020	14-08-2020	27-09-2020	Prof. Rahul Dubey	https://swayam.gov.in/nd1_noc20_cs94/preview
		2	Fundamentals of Electronic Device Fabrication	4	20-07-2020	14-08-2020	27-09-2020	Prof. Shambhu Kumar	https://swayam.gov.in/nd1_noc20_mm25/preview
		3	Python for Data Science	4	20-07-2020	14-08-2020	27-09-2020	Prof. Saurabh Singh Raghuvanshi	https://swayam.gov.in/nd1_noc20_cs80/preview
	Seminar Self Study Course (V Sem)	1	Demystifying Networking	4	20-07-2020	14-08-2020	27-09-2020	Prof. Deepak Batham	https://swayam.gov.in/nd1_noc20_cs86/preview
		2	Basics of Software Defined Radios and Practical Applications	4	20-07-2020	14-08-2020	27-09-2020	Dr. Bimal Garg	https://swayam.gov.in/nd1_noc20_ee87/preview
		3	Foundation of Cognitive Robotics	4	20-07-2020	14-08-2020	27-09-2020	Prof. Shambhu Kumar	https://swayam.gov.in/nd1_noc20_me92/preview
	Honor Specialization (V Sem)	1	Cloud Computing	8	20-07-2020	11-09-2020	27-09-2020	Prof. Saurabh Singh Raghuvanshi	https://swayam.gov.in/nd1_noc20_cs65/preview
		2	Solid State Physics	12	20-07-2020		17-10-2020/18-10-2020	Prof. Rishabh Shukla	https://swayam.gov.in/nd1_noc20_ph15/preview
		3	Solar Photovoltaics Fundamentals, Technology and Applications	8	20-07-2020	11-09-2020	27-09-2020	Prof. Deepak Batham	https://swayam.gov.in/nd1_noc20_ph21/preview
	Minor Specialization (V Sem)	1	Power Electronics	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Praveen Kumar	https://swayam.gov.in/nd1_noc20_ee97/preview
		2	Digital Circuits	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Arpita Singhal	https://swayam.gov.in/nd1_noc20_ee70/preview
		3	Analog Communication	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Awadhesh Gupta	https://swayam.gov.in/nd1_noc20_ee69/preview
	Honor Specialization (VII Sem)	1	Microelectronics: Devices to Circuits	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Dr. Vikas Mahor	https://swayam.gov.in/nd1_noc20_ee85/preview
		2	Google Cloud Computing	8	20-07-2020	11-09-2020	27-09-2020	Prof. Saurabh Singh Raghuvanshi	https://swayam.gov.in/nd1_noc20_cs96/preview
		3	Power Electronics	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Praveen Kumar	https://swayam.gov.in/nd1_noc20_ee97/preview
	Minor Specialization (VII Sem)	1	Microwave Engineering	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Santosh Sharma	https://swayam.gov.in/nd1_noc20_ee91/preview
		2	Image Signal Processing	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Dr. Ashish Gupta	https://swayam.gov.in/nd1_noc20_ee83/preview
		3	Introduction to Coding Theory	8	20-07-2020	11-09-2020	27-09-2020	Dr. Karuna Markam	https://swayam.gov.in/nd1_noc20_ee94/preview
Electronics and Telecommunication Engineering	Department Elective Courses (VII SEM)	1	Digital Image Processing	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Pooja Sahu	https://swayam.gov.in/nd1_noc20_ee75/preview
		2	Introduction to Wireless Cellular Communication	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Madhav Singh	https://swayam.gov.in/nd1_noc20_ee61/preview
		3	Milimeter Wave Technology	8	20-07-2020	11-09-2020	27-09-2020	Prof. D. K. Parsediya	https://swayam.gov.in/nd1_noc20_ee71/preview
	Seminar Self Study Course (III Sem)	1	C Programming and Assembly Language	4	20-07-2020	14-08-2020	27-09-2020	Prof. Rahul Dubey	https://swayam.gov.in/nd1_noc20_cs94/preview
		2	Fundamentals of Electronic Device Fabrication	4	20-07-2020	14-08-2020	27-09-2020	Prof. Shambhu Kumar	https://swayam.gov.in/nd1_noc20_mm25/preview
		3	Python for Data Science	4	20-07-2020	14-08-2020	27-09-2020	Prof. Saurabh Singh Raghuvanshi	https://swayam.gov.in/nd1_noc20_cs80/preview
	Seminar Self Study Course (V Sem)	1	Demystifying Networking	4	20-07-2020	14-08-2020	27-09-2020	Prof. Deepak Batham	https://swayam.gov.in/nd1_noc20_cs86/preview
		2	Basics of Software Defined Radios and Practical Applications	4	20-07-2020	14-08-2020	27-09-2020	Dr. Bimal Garg	https://swayam.gov.in/nd1_noc20_ee87/preview
		3	Foundation of Cognitive Robotics	4	20-07-2020	14-08-2020	27-09-2020	Prof. Shambhu Kumar	https://swayam.gov.in/nd1_noc20_me92/preview
	Honor Specialization (V Sem)	1	Cloud Computing	8	20-07-2020	11-09-2020	27-09-2020	Prof. Saurabh Singh Raghuvanshi	https://swayam.gov.in/nd1_noc20_cs65/preview
		2	Solid State Physics	12	20-07-2020		17-10-2020/18-10-2020	Prof. Rishabh Shukla	https://swayam.gov.in/nd1_noc20_ph15/preview
		3	Solar Photovoltaics Fundamentals, Technology and Applications	8	20-07-2020	11-09-2020	27-09-2020	Prof. Deepak Batham	https://swayam.gov.in/nd1_noc20_ph21/preview

	Minor Specialization (V Sem)	1	Power Electronics	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Praveen Kumar	https://swayam.gov.in/nd1_noc20_ee97/preview
		2	Digital Circuits	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Arpita Singhal	https://swayam.gov.in/nd1_noc20_ee70/preview
		3	Analog Communication	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Awadhesh Gupta	https://swayam.gov.in/nd1_noc20_ee69/preview
	Honor Specialization (VII Sem)	1	Microelectronics Devices to Circuits	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Dr. Vikas Mahor	https://swayam.gov.in/nd1_noc20_ee85/preview
		2	Google Cloud Computing	8	20-07-2020	11-09-2020	27-09-2020	Prof. Saurabh Singh Raghuvanshi	https://swayam.gov.in/nd1_noc20_cs96/preview
		3	Power Electronics	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Praveen Kumar	https://swayam.gov.in/nd1_noc20_ee97/preview
	Minor Specialization (VII Sem)	1	Microwave Engineering	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Prof. Santosh Sharma	https://swayam.gov.in/nd1_noc20_ee91/preview
		2	Image Signal Processing	12	20-07-2020	09-10-2020	17-10-2020/18-10-2020	Dr. Ashish Gupta	https://swayam.gov.in/nd1_noc20_ee83/preview
		3	Introduction to Coding Theory	8	20-07-2020	11-09-2020	27-09-2020	Dr. Karuna Markam	https://swayam.gov.in/nd1_noc20_ee94/preview
CSE Engineering	Department Elective Courses (VII SEM)	1	Practical Machine Learning with Tensorflow	8	17 Aug 2020	09 Oct 2020	18 Oct 2020	Prof. Neha Bhardwaj	https://swayam.gov.in/nd1_noc20_cs95/preview
		2	Scalable Data Science	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Punit Kumar Johari	https://swayam.gov.in/nd1_noc20_cs61/preview
		3	Introduction to internet of things	12	20 Jul 2020	09 Oct 2020	18 Oct 2020	Prof. Abhilash Sonker	https://swayam.gov.in/nd1_noc20_cs66/preview
	Seminar Self Study Course (III Sem)	1	Programming, Data Structures and Algorithms Using Python	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Mahesh Parmar	https://swayam.gov.in/nd1_noc20_cs70/preview
	Seminar Self Study	1	Demystifying networking	4	20 Jul 2020	14 Aug 2020	27 Sep 2020	Prof. Jamvant Kumare	https://swayam.gov.in/nd1_noc20_cs86/preview
	Honor Specialization (V Sem)	1	Introduction to internet of things	12	20 Jul 2020	09 Oct 2020	18 Oct 2020	Prof. Vikas Sejwar	https://swayam.gov.in/nd1_noc20_cs66/preview
		2	Data Science for Engineers	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Punit Kumar Johari	https://swayam.gov.in/nd1_noc20_cs72/preview
		3	The Joy of Computing using Python	12	20 Jul 2020	09 Oct 2020	17 Oct 2020	Prof. Mir Shah Nawaz	https://swayam.gov.in/nd1_noc20_cs83/preview
	Minor Specialization (V Sem)	1	Introduction to Operating Systems	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Rajni Ranjan Singh	https://swayam.gov.in/nd1_noc20_cs75/preview
		2	Database Management System	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Jaimala Jha	https://swayam.gov.in/nd1_noc20_cs60/preview
		3	Object oriented analysis and design	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Rajeev K. Singh	https://swayam.gov.in/nd1_noc20_cs59/preview
	Honor Specialization (VII Sem)	1	Introduction to Industry 4.0 and Industrial Internet of Things	12	20 Jul 2020	09 Oct 2020	17 Oct 2020	Prof. Khushboo Agarwal	https://swayam.gov.in/nd1_noc20_cs69/preview
		2	Deep Learning	12	20 Jul 2020	09 Oct 2020	17 Oct 2020	Prof. Jaimala Jha	https://swayam.gov.in/nd1_noc20_cs62/preview
		3	Big Data Computing	8	17 Aug 2020	09 Oct 2020	18 Oct 2020	Dr. Sanjiv Sharma	https://swayam.gov.in/nd1_noc20_cs92/preview
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Minor Specialization (VII Sem)	1	Object Oriented System Development using UML, Java and Patterns	12	20 Jul 2020	09 Oct 2020	17 Oct 2020	Prof. Rajeev K. Singh	https://swayam.gov.in/nd1_noc20_cs84/preview	
	2	Cloud computing	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Neha Bhardwaj	https://swayam.gov.in/nd1_noc20_cs65/preview	
	3	Computer Graphics	8	17 Aug 2020	09 Oct 2020	17 Oct 2020	Prof. Vikas Sejwar	https://swayam.gov.in/nd1_noc20_cs90/preview	
Information Technology	Department Elective Courses (VII SEM)	1	Practical Machine Learning with Tensorflow	8	17 Aug 2020	09 Oct 2020	18 Oct 2020	Prof. Neha Bhardwaj	https://swayam.gov.in/nd1_noc20_cs95/preview
		2	Scalable Data Science	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Punit Kumar Johari	https://swayam.gov.in/nd1_noc20_cs61/preview
		3	Introduction to internet of things	12	20 Jul 2020	09 Oct 2020	18 Oct 2020	Prof. Abhilash Sonker	https://swayam.gov.in/nd1_noc20_cs66/preview
	Seminar Self Study Course (III Sem)	1	Programming, Data Structures and Algorithms Using Python	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Mahesh Parmar	https://swayam.gov.in/nd1_noc20_cs70/preview
	Seminar Self Study Course (V Sem)	1	Demystifying networking	4	20 Jul 2020	14 Aug 2020	27 Sep 2020	Prof. Jamvant Kumare	https://swayam.gov.in/nd1_noc20_cs86/preview
	Honor Specialization (V Sem)	1	Introduction to internet of things	12	20 Jul 2020	09 Oct 2020	18 Oct 2020	Prof. Vikas Sejwar	https://swayam.gov.in/nd1_noc20_cs66/preview
		2	Data Science for Engineers	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Punit Kumar Johari	https://swayam.gov.in/nd1_noc20_cs72/preview
		3	The Joy of Computing using Python	12	20 Jul 2020	09 Oct 2020	17 Oct 2020	Prof. Mir Shah Nawaz	https://swayam.gov.in/nd1_noc20_cs83/preview
		4							
	Minor Specialization (V Sem)	1	Introduction to Operating Systems	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Rajni Ranjan Singh	https://swayam.gov.in/nd1_noc20_cs75/preview
2		Database Management System	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Jaimala Jha	https://swayam.gov.in/nd1_noc20_cs60/preview	

		3	Object oriented analysis and design	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Rajeev K. Singh	https://swayam.gov.in/nd1_noc20_cs59/preview	
	Honor Specialization (VII Sem)	1	Introduction to Industry 4.0 and Industrial Internet of Things	12	20 Jul 2020	09 Oct 2020	18 Oct 2020	Prof. Khushboo Agarwal	https://swayam.gov.in/nd1_noc20_cs69/preview	
		2	Deep Learning	12	20 Jul 2020	09 Oct 2020	17 Oct 2020	Prof. Jaimala Jha	https://swayam.gov.in/nd1_noc20_cs62/preview	
		3	Big Data Computing	8	17 Aug 2020	09 Oct 2020	18 Oct 2020	Dr. Sanjiv Sharma	https://swayam.gov.in/nd1_noc20_cs92/preview	
	Minor Specialization (VII Sem)	1	Object Oriented System Development using UML, Java and Patterns	12	20 Jul 2020	09 Oct 2020	17 Oct 2020	Prof. Rajeev K. Singh	https://swayam.gov.in/nd1_noc20_cs84/preview	
		2	Cloud computing	8	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof.Neha Bhardwaj	https://swayam.gov.in/nd1_noc20_cs65/preview	
		3	Computer Graphics	8	17 Aug 2020	09 Oct 2020	17 Oct 2020	Prof. Vikas Sejwar	https://swayam.gov.in/nd1_noc20_cs90/preview	
	Electrical Engineering	Department Elective Courses (VII SEM)	1	Introduction to Smart Grid	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ee65/preview
			2	Advances in UHV Transmission and Distribution (IISc)	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ee67/preview
			3	Electrical Distribution system Analysis (IITR)	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ee86/preview
4			Electrical Equipment and Machines: Finite Element Analysis, IITB	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ee81/preview	
Seminar Self Study Course (III Sem)		1	Python for Data Science	4 Weeks	July 20, 2020	August 14, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_cs80/preview	
		2	Fundamentals of Electronic Device Fabrication	4 Weeks	July 20, 2020	August 14, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_mm25/preview	
		3	Ethics in Engineering Practice	8 Weeks	July 20, 2020	October 09, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_mq44/preview	
		4	Solar Photovoltaics Fundamentals, Technology and Applications	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ph21/preview	
Seminar Self Study Course (V Sem)		1	Selection Of Nanomaterials For Energy Harvesting And Storage Application	4 Weeks	July 20, 2020	August 14, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_me83/preview	
		2	Global Navigation Satellite Systems and Applications, IITR	4 Weeks	July 20, 2020	August 14, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ce62/preview	
	3	C Programming and Assembly Language, IITM	4 Weeks	July 20, 2020	August 14, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_cs94/preview		
	4	Data Science for Engineers, IITM	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_cs72/preview		
Honor Specialization (V Sem)	1	Introduction to Smart Grid	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ee65/preview		
	2	DC Microgrid and Control System	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ee84/preview		
	3	Technologies for Clean and Renewable Energy Production	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ch37/preview		
	4	Introduction to Robotics	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_de11/preview		
	5	Design of photovoltaic systems	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_ee57/preview		
	6	Linear System Theory	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ee92/preview		
	7	Semiconductor Devices and Circuits	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ee77/preview		
Minor Specialization (V Sem)	1	Technologies For Clean And Renewable Energy Production	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ch37/preview		
	2	Basic Electrical Circuits	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_ee64/preview		
	3	Electrical Machines - I	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_ee60/preview		
	4	Power Electronics	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_ee97/preview		
	5	Power system analysis	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_ee72/preview		
	6	Control systems	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_ee90/preview		
	7	Linear System Theory	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ee92/preview		
Honor Specialization (VII Sem)	1	Introduction to Smart Grid	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ee65/preview		
	2	DC Microgrid and Control System	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ee84/preview		

	Minor Specialization (VII Sem)	3	Technologies for Clean and Renewable Energy Production	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ch37/preview		
		4	Introduction to Robotics	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_de11/preview		
		5	Design of photovoltaic systems	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_ee57/preview		
		6	Linear System Theory	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ee92/preview		
		7	Semiconductor Devices and Circuits	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ee77/preview		
		1	Introduction to Smart Grid	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ee65/preview		
		2	DC Microgrid and Control System	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ee84/preview		
		3	Electrical Distribution System Analysis	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ee86/preview		
		4	Power System Protection	12 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ee73/preview		
		5	Computer Aided Power System Analysis	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ee88/preview		
		6	Design of photovoltaic systems	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_ee57/preview		
		7	Fundamentals of Electrical Engineering	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ee68/preview		
		Civil Engineering	Department Elective Courses (VII SEM)	1	Matrix Method of Structural Analysis	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020	Dr. Pankaj Kumar	https://swayam.gov.in/nd1_noc20_ce41/preview
				2	Advanced Concrete Technology	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020	Prof. Mohit Aggarwal	https://swayam.gov.in/nd1_noc20_ce45/preview
3	Remote Sensing & GIS			8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ce58/preview		
Seminar Self Study Course (III Sem)	1		Water, Society & Sustainability	4 Weeks	August 17, 2020	September 11, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_hs46/preview		
	2		Python for Data Science	4 Weeks	July 20, 2020	August 14, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_cs80/preview		
Seminar Self Study Course (V Sem)	1		Principles and Application of Building Science	4 Weeks	July 20, 2020	August 14, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ar16/preview		
	2		GPS Surveying	4 Weeks	July 20, 2020	August 14, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ce51/preview		
Honor Specialization (V Sem)	1		Integrated Waste Management for Smart City	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_ce43/preview		
	2		Matrix Method of Structural Analysis.	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ce41/preview		
	3		River Engineering	8 Weeks	August 17, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ce54/preview		
	4		Introduction to Multimodal Urban Transportation Systems.	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ce53/preview		
	5		Glass in Buildings: Design & Applications.	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ce47/preview		
Minor Specialization (V Sem)	1		Building Materials & Composites.	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ar04/preview		
	2		Municipal Solid Waste Management.	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_ce56/preview		
	3		Strength of Materials.	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ce34/preview		
Honor Specialization (VII Sem)	1		Theory of Elasticity.	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ce42/preview		
	2		Earthquake Resistant Design of Foundations.	8 Weeks	August 17, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_ce52/preview		
Minor Specialization (VII Sem)	1		Project Management for Managers.	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_mg48/preview		
	2		Municipal Solid Waste Management.	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_ce56/preview		
Biotechnology Engineering	Department Elective Courses (VII SEM)		1	Computer Aided Drug Design	8 week	July 20, 2020	Sept 11, 2020	Sep 27, 2020	Dr. Sunita Sharma	https://swayam.gov.in/nd1_noc20_ce56/preview	
		2	Drug Delivery: Principles and Engineering	12 week	July 20, 2020	October 9, 2020	Oct 17, 2020	Dr. Sunita Sharma	https://swayam.gov.in/nd1_noc20_bt24/preview		
	Seminar Self Study Course (V Sem)	1	Biomedical Nanotechnology	4 week	Aug 17, 2020	Sept 11, 2020	Oct 17, 2020	Dr. Sunita Sharma	https://swayam.gov.in/nd1_noc20_bt29/preview		
		2	Nanotechnology in Agriculture	8 week	Aug 17, 2020	Oct 9, 2020	Oct 17, 2020	Prof. Shikha Jha	https://swayam.gov.in/nd1_noc20_bt41/preview		
		3	Functional Genomics	04 week	July 20, 2020	Aug 14, 2020	Sep 27, 2020	Prof. Vishal Ranjan	https://swayam.gov.in/nd1_noc20_bt40/preview		
	Honor Specialization (V Sem)	1	Experimental Biotechnology	12 week	July 20, 2020	October 9, 2020	October 18, 2020		https://swayam.gov.in/nd1_noc20_bt31/preview		
		2	Genetic Engineering: Theory And Application	12 week	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_bt32/preview		
		3	Introduction to Biostatistics	08 week	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_bt28/preview		

	Minor Specialization (V Sem)	1	Introduction to Mechanobiology	8 week	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_bt27/preview
		2	Genetic Engineering: Theory And Application	12 week	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_bt32/preview
		3	Transport Phenomena in Biological Systems	12 week	July 20, 2020	October 9, 2020	October 17, 2020		https://swayam.gov.in/nd1_noc20_bt30/preview
Chemical Engineering	Seminar Self Study Course (III Sem)	1	Unit operations of particulate matter	4 weeks	20 Jul 2020	14 Aug 2020	27 Sep 2020	Dr. R.K. Dubey	https://swayam.gov.in/nd1_noc20_ch29/preview
	Seminar Self Study Course (V Sem)	1	Natural Gas Engineering	8 weeks	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Sulochana Nagar	https://swayam.gov.in/nd1_noc20_ch24/preview
	Honor Specialization (V Sem)	1	Chemical Process Intensification	12 weeks	20 Jul 2020	09 Oct 2020	17 Oct 2020	Prof. Anish P. Jacob	https://swayam.gov.in/nd1_noc20_ch40/preview
		2	Technologies For Clean And Renewable Energy Production	8 weeks	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Swati Gupta	https://swayam.gov.in/nd1_noc20_ch37/preview
		3	Advanced Fluid Mechanics	12 weeks	20 Jul 2020	09 Oct 2020	17 Oct 2020	Dr. K.Samal	https://swayam.gov.in/nd1_noc20_me54/preview
	Minor Specialization (V Sem)	1	Heat Transfer	12 weeks	20 Jul 2020	09 Oct 2020	17 Oct 2020	Dr. Sachin R. Geed	https://swayam.gov.in/nd1_noc20_ch21/preview
		2	Chemical Reaction Engineering-I	12 weeks	20 Jul 2020	09 Oct 2020	18 Oct 2020	Prof. Anish P. Jacob	https://swayam.gov.in/nd1_noc20_ch25/preview
		3	Fluid and Particle Mechanics	12 weeks	20 Jul 2020	09 Oct 2020	17 Oct 2020	Dr. R.K.Dubey	https://swayam.gov.in/nd1_noc20_ch33/preview
	Honor Specialization (VII Sem)	1	Phase equilibrium thermodynamics	8 weeks	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Swati Gupta	https://swayam.gov.in/nd1_noc20_ch22/preview
		2	Colloids and Surfaces	8 weeks	20 Jul 2020	11 Sep 2020	27 Sep 2020	Prof. Anish P.Jacob	https://swayam.gov.in/nd1_noc20_ch36/preview
		3	Heat Exchangers: Fundamentals and Design Analysis	12 weeks	20 Jul 2020	09 Oct 2020	17 Oct 2020	Dr. R. K. Dubey	https://swayam.gov.in/nd1_noc20_me52/preview
	Minor Specialization (VII Sem)	1	Fluidization Engineering	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020	Dr. Arti Sahu	https://swayam.gov.in/nd1_noc20_ch26/preview
		2	Polymers: concepts, properties, uses and sustainability	12 weeks	July 20, 2020	09 Oct 2020	18 Oct 2020	Prof. Sulochana Nagar	https://swayam.gov.in/nd1_noc20_ch41/preview
		3	Fluid Machines	8 weeks	17 Aug 2020	09 Oct 2020	17 Oct 2020	Dr. S.R. Geed	https://swayam.gov.in/nd1_noc20_me55/preview
	Department Elective Courses (VII SEM)	1	Plant Design and Economics	12 weeks	20 Jul 2020	09 Oct 2020	18 Oct 2020	Dr. A.N.Sarve	https://swayam.gov.in/nd1_noc20_ch31/preview
		2	Chemical Process Safety	12 weeks	20 Jul 2020	09 Oct 2020	17 Oct 2020	Dr. S.R. Geed	https://swayam.gov.in/nd1_noc20_ch38/preview
		3	Numerical Methods for Engineers	12 weeks	20 Jul 2020	09 Oct 2020	17 Oct 2020	Prof. Anish P. Jacob	https://swayam.gov.in/nd1_noc20_ge20/preview
	Mechanical Engineering	Seminar Self Study Course (III Sem)	1	Product Design and Development	4 weeks	20-07-2020	14-08-2020	27-09-2020	
2			Foundations of Cognitive Robotics	4weeks	20-07-2020	14-08-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_me92/preview
3			Principles of Vibration Control	4 weeks	20-07-2020	14-08-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_me48/preview
Seminar Self Study Course (V Sem)		1	Selection Of Nanomaterials For Energy Harvesting And Storage Application	4 weeks	20-07-2020	14-08-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_me83/preview
		2	Welding of Advanced High Strength Steels for Automotive Applications	4 weeks	20-07-2020	14-08-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_mm16/preview
		3	Structural Analysis of Nanomaterials	4 weeks	20-07-2020	14-08-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_mm18/preview
Honor Specialization (V Sem)		1	Advanced Fluid Mechanics	12 weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_me54/preview
		2	System design for sustainability	12 weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_de07/preview
		3	Manufacturing Systems Technology Part I & II	12 weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_me49/preview
		4	Fundamentals of manufacturing processes	12 weeks	20-07-2020	09-10-2020	18-10-2020		https://swayam.gov.in/nd1_noc20_me67/preview
		5	Mathematical Modeling Of Manufacturing Processes	12 weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_hs79/preview
Minor Specialization (V Sem)		1	Fundamentals of manufacturing processes	12 weeks	20-07-2020	09-10-2020	18-10-2020		https://swayam.gov.in/nd1_noc20_me67/preview
		2	Concepts of thermodynamics	12weeks	20-07-2020	09-10-2020	18-10-2020		https://swayam.gov.in/nd1_noc20_me51/preview
Honor Specialization (VII Sem)		1	Fundamentals of Artificial Intelligence	12weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_me88/preview
		2	Rapid Manufacturing	12weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_me50/preview

		3	Heat Exchangers: Fundamentals and Design Analysis	12weeks	20-07-2020	09-10-2020			https://swayam.gov.in/nd1_noc20_me52/preview
	Minor Specialization (VII Sem)	1	Mechanical Measurement Systems	8 weeks	20-07-2020	11-09-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_me57/preview
		2	Principle of Hydraulic Machines and System Design	8 weeks	20-07-2020	11-09-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_me77/preview
	Department Elective Courses (VII SEM)	1	Foundation Of Computational Fluid Dynamics	8 weeks	20-07-2020	11-09-2020	27-09-2020	Dr. M.K Gaur Prof. Puneet Nema	https://swayam.gov.in/nd1_noc20_me64/preview
		2	Introduction To Composites	12 weeks	20-07-2020	09-10-2020	18-10-2020	Dr. Jyoti Vimal Prof. Utkarsh Srivastava	https://swayam.gov.in/nd1_noc20_me95/preview
		3	Advanced Machining Processes	8 weeks	17-08-2020	09-10-2020	18-10-2020	Prof. Vedansh Chaturvedi Prof Saived Faiz	https://swayam.gov.in/nd1_noc20_me76/preview
	Seminar Self Study Course (III Sem)	1	Product Design and Development	4 weeks	20-07-2020	14-08-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_me69/preview
		2	Foundations of Cognitive Robotics	4weeks	20-07-2020	14-08-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_me92/preview
		3	Principles of Vibration Control	4 weeks	20-07-2020	14-08-2020	27-09-2020	Prof. Ajay Rajput	https://swayam.gov.in/nd1_noc20_me48/preview
Seminar Self Study Course (V Sem)	1	Selection Of Nanomaterials For Energy Harvesting And Storage Application	4 weeks	20-07-2020	14-08-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_me83/preview	
	2	Welding of Advanced High Strength Steels for Automotive Applications	4 weeks	20-07-2020	14-08-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_mm16/preview	
	3	Structural Analysis of Nanomaterials	4 weeks	20-07-2020	14-08-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_mm18/preview	
Honor Specialization (V Sem)	1	Advanced Fluid Mechanics	12 weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_me54/preview	
	2	System design for sustainability	12 weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_de07/preview	
	3	Manufacturing Systems Technology Part I & II	12 weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_me49/preview	
	4	Fundamentals of manufacturing processes	12 weeks	20-07-2020	09-10-2020	18-10-2020		https://swayam.gov.in/nd1_noc20_me67/preview	
	5	Mathematical Modeling Of Manufacturing Processes	12 weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_hs79/preview	
Minor Specialization (V Sem)	1	Fundamentals of manufacturing processes	12 weeks	20-07-2020	09-10-2020	18-10-2020		https://swayam.gov.in/nd1_noc20_me67/preview	
	2	Concepts of thermodynamics	12weeks	20-07-2020	09-10-2020	18-10-2020		https://swayam.gov.in/nd1_noc20_me51/preview	
Honor Specialization (VII Sem)	1	Fundamentals of Artificial Intelligence	12weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_me88/preview	
	2	Rapid Manufacturing	12weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_me50/preview	
	3	Heat Exchangers: Fundamentals and Design Analysis	12weeks	20-07-2020	09-10-2020	17-10-2020		https://swayam.gov.in/nd1_noc20_me52/preview	
Minor Specialization (VII Sem)	1	Mechanical Measurement Systems	8 weeks	20-07-2020	11-09-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_me57/preview	
	2	Principle of Hydraulic Machines and System Design	8 weeks	20-07-2020	11-09-2020	27-09-2020		https://swayam.gov.in/nd1_noc20_me77/preview	
Department Elective Courses (VII SEM)	1	Farm Machinery	12weeks	20-07-2020	09-10-2020	18-10-2020	Prof K.K Yadav Prof Sumit Singh	https://swayam.gov.in/nd1_noc20_aq06/preview	
	2	Introduction to Mechanical Vibration	8 weeks	20-07-2020	11-09-2020	27-09-2020	Prof. Vaibhav Shivhare Prof. Ajay Rajput	https://swayam.gov.in/nd1_noc20_me66/preview	
	3	Industrial Safety Engineering	12weeks	20-07-2020	09-10-2020	17-10-2020	Prof.Sharad Agarwal Prof. Shubham Srivastav Prof Shweta Singh	https://swayam.gov.in/nd1_noc20_mg43/preview	
Seminar Self Study Course (V Sem)	1	Role of Craft and Technology in Interior - Architecture	8 Weeks	July 20, 2020	September 11, 2020	September 27, 2020		https://swayam.gov.in/nd1_noc20_ar09/preview	
	2	Visual Communication Design for Digital Media	4 Weeks	July 20, 2020	August 14, 2020	September 27, 2020	Prof Versha Sinha	https://swayam.gov.in/nd1_noc20_ar15/preview	
	3	Principles and applications of building science	4 Weeks	July 20, 2020	August 14, 2020	September 27, 2020	Prof Pranshi Jain	https://swayam.gov.in/nd1_noc20_ar16/preview	
	ELECTIVE V	1	Structural System in Architecture	8 Weeks	August 17, 2020	October 9, 2020	October 18, 2020	Prof Noopur Gupta	https://swayam.gov.in/nd1_noc20_ar10/preview
		2	Urban Landuse and transportation planning	12 Weeks	July 20, 2020	October 9, 2020	October 18, 2020	Prof Apurva Tomar	https://swayam.gov.in/nd1_noc20_ar11/preview
Architecture									

		3	Urban governance and Development Management (UGDM)	12 Weeks	July 20, 2020	October 9, 2020	October 17, 2020	Dr Anjali S Patil	https://swayam.gov.in/nd1_noc20_ar12/preview
Add rows as applicable									