

# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute, Affiliated to RGPV, Bhopal (M.P.) India)

**NAAC Accredited with A++ Grade**

## Annexure III

### Item 4

To propose the list of courses which the students can opt from SWAYAM/NPTEL/ other MOOC Platforms/ Institution (MITS) MOOC, to be offered in online mode under Departmental Elective (DE) category courses (DE-5) and open category (OC-3) for credit transfer in the VIII Semester under the flexible curriculum (Batch admitted in academic year 2020-21)

S.No	Category Code	Course Code	Name of The course	Duration of the Course in weeks	Course Registration		Name of the Mentor Faculty
					Start Date	End Date	
<b>Electronics Engineering</b>							
1	DE-5	<b>140856</b>	Photonic integrated circuit	12	22/01/2024	12/4/2024	Dr. Hemant Choubey
2		<b>140854</b>	Fundamental of Power Electronics	12	22/01/2024	12/4/2024	Dr. Varun Sharma
3		<b>140855</b>	Biomedical Signal Processing	12	22/01/2024	12/4/2024	Dr. Shubhi Kansal
4	OC-3	<b>900601</b>	Linear Dynamical Systems	8	22/01/2024	15/03/2024	Dr. Deepak Batham
5		<b>900602</b>	Sensors and Actuators	12	22/01/2024	12/4/2024	Dr. Sushmita Chaudhari
<b>Electronics &amp; Telecommunication Engineering</b>							
1	DE-5	<b>200854</b>	Fundamental of power electronics	12	22/01/2024	12/4/2024	Dr. Varun Sharma
2		<b>200855</b>	Biomedical Signal Processing	12	22/01/2024	12/4/2024	Dr. Shubhi Kansal
3		<b>200853</b>	Power management integrated circuit	12	22/01/2024	12/4/2024	Dr. Vikas Mahor
4	OC-3	<b>900601</b>	Linear Dynamical Systems	8	22/01/2024	15/03/2024	Dr. Deepak Batham
5		<b>900602</b>	Sensors and Actuators	12	22/01/2024	12/4/2024	Dr. Sushmita Chaudhari

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## Annexure IV

### Item 5

To propose the list of “Additional Courses” which can be opted for getting an

- (i) **Honours (for students of the host department)**
- (ii) **Minor Specialization (for students of other departments)**

[These will be offered through SWAYAM/NPTEL/MOOC based Platforms for the B.Tech. VIII semester students (for the batch admitted in 2020-21)] and for B.Tech. VI semester (for the batch admitted in 2021-22)]

Semester	Hons/ Minor	Domain	Subject Name			
VI	Honors	Communication and Signal Processing	1. Principles of Signals and Systems 2. Communication Networks			
		VLSI Design	1. Analog IC design 2. Integrated Circuits, MOSFETs, OP-Amps and their Applications			
		Nano-Technology	1. Surface Engineering of Nanomaterials 2. Physics of Nanoscale Devices			
	Minors	Control & Sensor Technology	1. Microprocessors and Microcontrollers 2. Network Analysis			
		Communication and Signal Processing	1. Communication Networks 2. Fundamentals Of MIMO Wireless Communication			
VIII	Honors	Communication and Signal Processing	1. An Introduction to Information Theory 2. Computer Vision and Image Processing- Fundamentals and Applications			
		VLSI Design	1. Microwave Integrated Circuits 2. Integrated Circuits, MOSFETs, OP-Amps and their Applications			
	Minors	Control & Sensor Technology	1. Control And Instrumentation 2. Optical Fiber Sensors			
		Communication and Signal Processing	1. Signal Processing Techniques and its Applications 2. Computer Vision and Image Processing- Fundamentals and Applications			
Category	Semester	Name of The course	Duration of the Course in weeks	Course Registration		Name of the Mentor Faculty
Electronics Engineering/Electronics & Telecommunication Engineering (VI Semester)						
Honors	VI	Principles of Signals and Systems	12	22/01/2024	12/4/2024	Dr. Rahul Dubey

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	VI	Communication Networks	12	22/01/2024	12/4/2024	Prof. Madhav Singh
	VI	Analog IC design	12	22/01/2024	12/4/2024	Prof. Pooja Sahoo
	VI	Integrated Circuits, Mosfets, OP-Amps and their Applications	12	22/01/2024	12/4/2024	Dr. Deepak Batham
	VI	Surface Engineering of Nanomaterials	8	22/01/2024	15/03/2024	Dr. Sushmita Chaudhari
	VI	Physics of Nanoscale Devices	12	22/01/2024	12/4/2024	Dr. Varun Sharma
Minors	VI	Microprocessors & Microcontrollers	12	22/01/2024	12/4/2024	Dr. Vandana V. Thakare
	VI	Network Analysis	12	22/01/2024	12/4/2024	Dr. R. P. Narwaria
	VI	Communication Networks	12	22/01/2024	12/4/2024	Prof. Madhav Singh
	VI	Fundamentals Of MIMO Wireless Communication	8	22/01/2024	15/03/2024	Prof. Pooja Sahoo
<b>Electronics Engineering/Electronics &amp; Telecommunication Engineering (VIII Semester)</b>						
Honors	VIII	An Introduction to Information Theory	12	22/01/2024	15/03/2024	Prof. Pooja Sahoo
	VIII	Computer Vision and Image Processing- Fundamentals and Applications	12	22/01/2024	12/4/2024	Dr. Shubhi Kansal
	VIII	Microwave Integrated Circuits	8	22/01/2024	15/03/2024	Prof. D. K. Parsediya
	VIII	Integrated Circuits, MOSFETs, OP-Amps and their Applications	12	22/01/2024	12/4/2024	Dr. Deepak Batham
Minors	VIII	Control System Design	12	22/01/2024	12/4/2024	Dr. R. P. Narwaria
	VIII	Optical Fiber Sensors	12	22/01/2024	12/4/2024	Dr. Karuma Markam

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	VIII	Signal Processing Techniques and its Applications	12	12	22/01/2024	Prof. D. K. Parsediya
	VIII	Computer Vision and Image Processing- Fundamentals and Applications	12	22/01/2024	12/4/2024	Dr. Shubhi Kansal