

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(Deemed University)
(Declared Under Distinct Category by Ministry of Education, Government of India)
NAAC Accredited with A++ Grade

Annexure II

Item 3

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 (DE4) and open category (OC3)** for credit transfer in the **VIII Semester** under the flexible curriculum (**Batch admitted in academic year 2022-23**).

S.No	Category Code	Course Code	Name of The course	Duration of the Course in weeks	Course		Name of the Mentor Faculty
					Start Date	End Date	
Electronics Engineering							
1	DE-4	2140856	Photonic integrated circuit	12	Jan 19, 2026	Apr 10, 2026	Dr. Hemant Choubey
2		2140854	Fundamental of Power Electronics	12	Jan 19, 2026	Apr 10, 2026	Dr. Kumar Gaurav
3		2140855	FPGA based Signal Processing Systems	12	Jan 19, 2026	Apr 10, 2026	Dr. Varun Mishra
4	OC-3	900604	Integrated Circuits and Applications	12	Jan 19, 2026	Apr 10, 2026	Dr. Madhav Singh
5		900602	Sensors and Actuators	12	Jan 19, 2026	Apr 10, 2026	Dr. Mukesh Kumar Mishra

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Annexure III

Item -4

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 2022-23)] and for B.Tech. VI semester (for the batch admitted in 2023-24)].

Sem	Cate gory Code	Domain	Course Code	Name of the course	Duratio n of the Course in weeks	Course		Name of the Mentor Faculty
						Start Date	End Date	
Electronics Engineering								
VI	Honors	Communicat ion and Signal Processing	H140601	Optical Wireless Communications for Beyond 5G Networks and IoT	12	Jan 19, 2026	Apr 10, 2026	Dr. Hemant Choubey
			H140606	Communication Networks	12	Jan 19, 2026	Apr 10, 2026	Dr. Kumar Gaurav
		VLSI Design	H140607	Analog IC design	12	Jan 19, 2026	Apr 10, 2026	Dr. Madhav Singh
			H140609	Integrated Circuits, MOSFETs, OP-Amps and their Applications	12	Jan 19, 2026	Apr 10, 2026	Dr. Mukesh Kumar Mishra
		Nano Technology	H140610	Basic Overview of Semiconductor Device Processing and IC Fabrication	12	Jan 19, 2026	Apr 10, 2026	Dr. R.P Narwaria
			H140611	Physics of Nanoscale Devices	12	Jan 19, 2026	Apr 10, 2026	Dr.Mukesh Kumar Mishra
	Minors	Control & Sensor Technology	M140606	Microprocessors and Microcontrollers	12	Jan 19, 2026	Apr 10, 2026	Dr.Mukesh Kumar Mishra
			M140607	Network Analysis	12	Jan 19, 2026	Apr 10, 2026	Dr. Hemant Choubey
			M140604	Communication Networks	12	Jan 19, 2026	Apr 10, 2026	Dr. Mukesh Kumar Mishra
			M140605	Optical Wireless Communications for Beyond 5G Networks and IoT	12	Jan 19, 2026	Apr 10, 2026	Dr. Kumar Gaurav
VII I	Honors	Communicat ion and Signal	M140802	Signal Processing Techniques and its Applications	12	Jan 19, 2026	Apr 10, 2026	Dr. Kumar Gaurav

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		Processing	M140810	Biomedical Signal Processing	12	Jan 19, 2026	Apr 10, 2026	Dr. Kumar Gaurav
		VLSI Design	H140809	Digital VLSI Testing	12	Jan 19, 2026	Apr 10, 2026	Dr. Kumar Gaurav
			H140807	Integrated Circuits, MOSFET, OP Amps and their Applications	12	Jan 19, 2026	Apr 10, 2026	Dr. R.P Narwaria
		Nano Technology	H140811	Basic Overview of Semiconductor Device Processing and IC Fabrication	12	Jan 19, 2026	Apr 10, 2026	Dr. Madhav Singh
			H140812	Physics of Nanoscale Devices	12	Jan 19, 2026	Apr 10, 2026	Dr. Madhav Singh
	Minors	Control & Sensor Technology	M140811	Embedded Sensing, Actuation and Interfacing Systems	12	Jan 19, 2026	Apr 10, 2026	Dr. R.P Narwaria
			M140806	Optical Fiber Sensors	12	Jan 19, 2026	Apr 10, 2026	Dr. R.P Narwaria
		Communication and Signal Processing	M140802	. Signal Processing Techniques and its Applications	12	Jan 19, 2026	Apr 10, 2026	Dr.Shailendra Singh
			M140810	Biomedical Signal Processing	12	Jan 19, 2026	Apr 10, 2026	Dr.Shailendra Singh