

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 (DE-5) and open category (OC3)** for credit transfer in the **VIII Semester** under the flexible curriculum (**Batch admitted in academic year 2021-22**).

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	
Electronics Engineering							
1	DE-5	140856	Photonic integrated circuit	12	20-01-2025	11-04-2025	Dr. Hemant Choubey
2		140854	Fundamental of Power Electronics	12	20-01-2025	11-04-2025	Dr. Varun Sharma
3		140855	Biomedical Signal Processing	12	20-01-2025	11-04-2025	Dr. Shubhi Kansal
4	OC-3	900601	Linear Dynamical Systems	8	20-01-2025	14-03-2025	Dr. Deepak Batham
5		900602	Sensors and Actuators	12	20-01-2025	11-04-2025	Dr. Mukesh Kumar Mishra

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 2021-22)] and for B.Tech. VI semester (for the batch admitted in 2022-23)]

Semester	Hons/ Minor	Domain	Subject Name
VI	Honors	Communication and Signal Processing	1. Electromagnetic waves in guided and wireless media (H140601) 2. Communication Networks (H140606)
		VLSI Design	1. Analog IC design (H140607) 2. Integrated Circuits, MOSFETs, OP-Amps and their Applications (H140609)
	Minors	Control & Sensor Technology	1. Microprocessors and Microcontrollers (M140606) 2. Network Analysis (M140607)
		Communication and Signal Processing	1. Communication Networks (M140604) 2. Fundamentals Of MIMO Wireless Communication (M140605)
VIII	Honors	Communication and Signal Processing	1. An Introduction to Information Theory (H140805) 2. Discrete Time Signal Processing (H140810)
		VLSI Design	1. Digital VLSI Testing (H140809) 2. Integrated Circuits, MOSFET, OPamps and their Applications (H140807)
	Minors	Control & Sensor Technology	1. Embedded Sensing, Actuation and Interfacing Systems (M140811) 2. Optical Fiber Sensors (M140806)
		Communication and Signal Processing	1. Signal Processing Techniques and its Applications (M140802) 2. Discrete Time Signal Processing (M140810)