JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
R18 B.Tech. List of TENTATIVE SWAYAM MOOCS Courses as Electives for AY 2022-23
(January – June 2023 Batch)

R18 B.Tech III Year II Semester

Name of the Department	MOOCS Course (s) (Professional Elective – I)	MOOCS Course (s) (Professional Elective – II)	MOOCS Course (s) (Professional Elective – III)
CE	--	--	--
EEE	--	Operation and Planning of Power Distribution Systems (IITG 12W)	--
ME	Introduction to Mechanical Micro Machining (IITKGP 12W)	--	--
ECE	--	Programming in Java (IITKGP 12W)	--
	--	Deep Learning for Visual Computing (IITKGP 12W)	--
	--	Embedded System Design (IITKGP 12W)	--
	--	Spread Spectrum Communications and Jamming (IITKGP 12W)	--
EIE	--	Industrial Automation and Control (IITKGP 12W)	--
	--	Sensors and Actuators (IISc 12W)	--
	--	Optical Engineering (IITM 12W)	--
CSE and its Allied Branches	--	--	Reinforcement Learning (IITM 12W)
	--	--	GPU Architectures and Programming (IITKGP 12W)
IT	--	--	Reinforcement Learning (IITM 12W)
	--	--	Ethical Hacking (IITKGP 12W)

R18 B.Tech IV Year II Semester

Name of the Department	MOOCS Course(s) (Professional Elective – V)	MOOCS Course(s) (Professional Elective – VI)
CE	Environmental Impact Assessment (IITR 12W)	Urban Transportation Systems Planning (IITKGP 12W)
	Air Pollution and Control (IITR 12W)	Finite Element Method (IITKGP 12W)
EEE	Design and Analysis of VLSI Subsystems (IIIT Bangalore 12W)	Industrial Automation and Control (IITKGP 12W)
ME	Robotics: Basics and Selected Advanced Concepts (IISC 12W)	Principles of Industrial Engineering (IITR 12W)
	Nonlinear Vibration (IITG 12W)	--
ECE	Communication Networks (IITKGP 12W)	Architectural Design of Digital Integrated Circuits (IIEST Shibpur 12W)
	GPU Architectures and Programming (IITKGP 12W)	Design and Analysis of VLSI Subsystems (IIIT Bangalore 12W)
	RF and Microwave Networks (IITKGP 12W)	Analog IC Design IITM 12W
	Optical Wireless Communications for Beyond 5G Networks and IOT (IIITD 12W)	--
EIE	Principles of Communication Systems – I (IITK 12W)	Introduction to Machine Learning (IITM 12W)
	Computer Vision and Image Processing – Fundamentals and Applications (IITG 12W)	Introduction to Internet of Things (IITKGP 12W)
	Design and Analysis of VLSI Subsystems (IIIT Bangalore 12W)	--
CSE and its Allied Branches	--	Blockchain and its Applications (IITKGP 12W)
	--	Cloud Computing (IITKGP 12W)
	--	Quantum Algorithms and Cryptography (IITM 12W)
	--	Deep Learning (IITKGP 12W)
IT	--	Natural Language Processing (IITKGP 12W)
	--	Deep Learning (IITKGP 12W)
	--	Cloud Computing (IITKGP 12W)

Note: Principals are requested to instruct the students not to repeat courses/subjects with the same title. A student has to take the approval of the allocated mentor (by the HOD) before finalization of MOOCS Courses. The mentor has to thoroughly verify and ensure that **1)** All the pre-requisites for the MOOCS courses are satisfied, **2)** The titles of the subjects in the forthcoming semesters are not similar to the subjects studied under MOOCS in the current semesters.

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Sd./- XXX
REGISTRAR

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