



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
R16 & R18 B. Tech. List of SWAYAM Courses as Electives for AY 2020-21
(January – June 2021 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)
Civil Engineering	--	Maintenance and Repair of Concrete Structures (IITM 12 Weeks)	--
	--	Structural Dynamics (IIT HYD 12 Weeks)	--
Electrical and Electronics Engineering	--	Fundamentals of Semiconductor Devices (IISC 12 Weeks)	--
Mechanical Engineering	Optimization from Fundamentals (IITB 12 Weeks)	--	--
Electronics and Communication Engineering	--	Introduction to Embedded System Design (NSIT & IIT Jammu 12 Weeks)	--
	--	Evolution of Air Interface Towards 5G (IIT KGP 8 Weeks)	--
Electronics and Instrumentation	--	Introduction to Embedded System Design (NSIT & IIT Jammu 12 Weeks)	--
	--	Computer Vision and Image Processing - Fundamentals and Applications (IITG 12 Weeks)	--
Computer Science and Engineering	--	--	Reinforcement Learning (IITM 12 Weeks)
	--	--	Deep Learning (IIT KGP 12 Weeks)
	--	--	Data Science for Engineers (IITM 8 Weeks)
Information Technology	--	--	Reinforcement Learning (IITM 12 Weeks)
	--	--	Deep Learning (IIT KGP 12 Weeks)
	--	--	Data Science for Engineers (IITM 8 Weeks)

R16 B.TECH IV Year II Semester

Name of the Department	MOOCS Course(s) (Professional Elective – V)	MOOCS Course(s) (Professional Elective – VI)
Civil Engineering	Water and Waste Water Treatment (IITR 12 Weeks)	Environmental Remediation of Contaminated Sites (IITR 12 Weeks)
	Urban Transportation Systems Planning (IIT KGP 12 Weeks)	Geographic Information Systems (IITR 12 Weeks)
	Structural Dynamics (IIT HYD 12 Weeks)	Applied Environmental Microbiology (IITR 12 Weeks)
	Water Supply Engineering (IIT KGP 12 Weeks)	--
Civil & Environmental Engineering	Environmental Remediation of Contaminated Sites (IITR 12 Weeks)	Hydraulic Engineering (IIT KGP 12 Weeks)
	Basic Construction Materials (IITM 12 Weeks)	Urban Transportation Systems Planning (IIT KGP 12 Weeks)
	Geotechnical Engineering II Foundation Engineering (IIT KGP 12 Weeks)	Structural Dynamics (IIT HYD 12 Weeks)
	--	Advanced Soil Mechanics (IITG 12 Weeks)
Electrical and Electronics Engineering	Power Management Integrated Circuits (IITM 12 Weeks)	Transmission Lines and Electromagnetic Waves (IITM 12 Weeks)
Mechanical Engineering	Industrial Automation and Control (IITKGP 12 Weeks)	Introduction to Mechanical Micromachining (IITKGP 12 Weeks)
	Nonconventional Energy Resources (IITM 12 Weeks)	--
Material Science & Nanotechnology	Industrial Automation and Control (IITKGP 12 Weeks)	Carbon Materials and Manufacturing (IIT Mandi 12 Weeks)
	Material Characterization (IITM 12 Weeks)	--
Electronics and Communication Engineering	Evolution of Air Interface Towards 5G (IIT KGP 8 Weeks)	Artificial Intelligence: Knowledge Representation and Reasoning (IITM 12 Weeks)
	Optical Communications (IITK 12 Weeks)	Introduction to Machine Learning (IITM 12 Weeks)
	Cryptography and Network Security (IIT KGP 12 Weeks)	--
Electronics and Instrumentation	Artificial Intelligence: Knowledge Representation and Reasoning (IITM 12 Weeks)	Embedded System Design (IIT KGP 12 Weeks)
Computer Science and Engineering	Data Science for Engineers (IITM 8 Weeks)	Reinforcement Learning (IITM 12 Weeks)
Information Technology	Data Science for Engineers (IITM 8 Weeks)	Reinforcement Learning (IITM 12 Weeks)


30/01/21
REGISTRAR


30/1/21