

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD R18 B. Tech. List of SWAYAM Courses as Electives for AY 2021-22 (July – December 2021 Batch)

(Tentatively list)

R18 B.TECH III Year I Semester

Name of the Department	MOOCS Course (s)	MOOCS Course (s)	
-	(Professional Elective – I)	(Professional Elective – II)	
Civil Engineering	Sustainable Transportation Systems (IITR 12 Weeks) Introduction to Engineering Seismology (IISC 12 Weeks)		
Electrical and Electronics Engineering	Introductory Neuroscience & Neuro-Instrumentation (IISC 12 Weeks)		
Mechanical Engineering			
Electronics and Communication Engineering	 Introduction to Internet of Things (IITKGP 12 Weeks) Fiber Optic Communication Technology (IITM 12 Weeks) 		
Electronics and Instrumentation	Fiber Optic Communication Technology (IITM 12 Weeks)		
Computer Science and Engineering	Advanced computer architecture (IITD 12 Weeks) Data Science for Engineers (IITM 8 Weeks)	Social Networks (IIT Ropar 12 Weeks) Big Data Computing (IIT Patna 8 Weeks)	
Information Technology	Advanced computer architecture (IITD 12 Weeks) Social Networks (IIT Ropar 12 Weeks)	Introduction to Machine Learning (IITM 12 Weeks) Data Science for Engineers (IITM 8 Weeks)	

R18 B.TECH IV Year I Semester

Name of the Department	MOOCS Course(s) (Professional Elective – II)	MOOCS Course(s) (Professional Elective – III)	MOOCS Course(s) (Professional Elective – IV)	MOOCS Course(s) (Professional Elective – V)
Civil Engineering		1. Remote Sensing & GIS (IITG 8 Weeks) 2. round Improvement (IITKGP 12 Weeks)	1. Waste Water Treatment and Recycling (IITKGP 12 Weeks) 2. Integrated Waste Management for a Smart City (IITKGP 12 Weeks) 3. Water Economics and Governance (IITKGP 12 Weeks) Weeks)	
Electrical and Electronics Engineering		1. Electric Vehicles & Renewable Energy (IITM 12 Weeks)	Design for Internet of Things (IISC 8 Weeks)	

Mechanical Engineering	1. Fundamentals of Additive Manufacturing Technologies (IITG 12 Weeks) 2. Rapid	2. Electrical Distribution System Analysis (IITR 8 Weeks) Power Plant Engineering (IITR 8 Weeks)	DC Microgrid and Control System (IITR 8 Weeks) Computational Fluid Dynamics (IITKGP 12 Weeks) Computational Fluid Dynamics using Finite	
	Manufacturing (IITK 12 Weeks)		Volume Method (IITM 12 Weeks)	
Electronics and Communication Engineering		Introduction to Machine Learning (IITM 12 Weeks)	Microelectronics: Devices to Circuits (IITR 12 Weeks)	
Electronics and Instrumentation		Introduction to Robotics (IITM 12 Weeks)	Introduction to Machine Learning (IITM 12 Weeks)	
Computer Science and Engineering			Artificial Intelligence Search Methods for Problem Solving (IITM 12 Weeks) Introduction to Research (IITM 8 Weeks)	1. Real-Time Systems (IITKGP 12 Weeks) 2. Introduction to Industry 4.0 and Industrial Internet of Things (IITKGP 12 Weeks)
Information Technology			1. Secure Computation: Part - I (IITB 12 Weeks) 2. Artificial Intelligence Search Methods for Problem Solving (IITM 12 Weeks)	1. Real-Time Systems (IITKGP 12 Weeks) 2. Getting Started with Competitive Programming (IITGNR 12 Weeks)

Sd/-XXXX DIRECTOR, Academic & Planning