



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

R18 B. Tech. List of SWAYAM Courses as Electives for AY 2022-23

(July – December 2022 Batch)

R18 B.TECH III Year I Semester

Name of the Department	MOOCS Course (s) (Professional Elective – I)	MOOCS Course (s) (Professional Elective – II)
Civil Engg.	1. Theory of Elasticity (IITKGP) 2. Rock Mechanics and Tunneling (IITKGP)	---
EEE	---	---
ECE	1. Computer Architecture and Organization (IITKGP) 2. Modern Digital Communication Techniques (IITKGP) 3. Electric Measurement and Electronic Instruments (IITKGP)	---
EIE	1. Operating Systems Fundamentals (IITKGP) 2. Introduction to Robotics (IITM)	---
CSE	1. Computational Number Theory and Algebra (IITK) 2. The Joy of Computing using Python (IIT Ropar)	1. Computer Vision (IITKGP) 2. Natural Language Processing (IITKGP)
IT	1. Computer Vision (IITKGP) 2. The Joy of Computing using Python (IIT Ropar)	1. Introduction to Machine Learning (IITM) 2. Social Networks (IIT Ropar)

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 Engg.	---	Ground Improvement (IITKGP)	Availability and Management of Groundwater Resources (IIT-ISM)	---
EEE	---	---	Design of Photovoltaic Systems (IISC)	---
Mech. Engg.	1. Fundamentals of Additive Manufacturing Technologies (IITG) 2. Automation in Manufacturing (IITG) 3. Design of	1. Elements of Solar Energy Conversion (IITK) 2. Energy Conversion and Waste Heat Recovery (IITKGP)	1. Computational Fluid Dynamics and Heat Transfer (IITK) 2. Principles of Hydraulic Machines and System Design (IITG)	---

	Mechatronic Systems (IITB)			
ECE	---	<ol style="list-style-type: none"> 1. Image Signal Processing (IITM) 2. Digital Image Processing (IITKGP) 3. Pattern Recognition and Application (IITKGP) 	<ol style="list-style-type: none"> 1. Mathematics Aspects of Biomedical Electronic System Design (IISc) 2. Signal Processing for mm Wave Communication for 5G and Beyond (IITKGP) 3. Cryptography and Network Security (IITKGP) 	---
EIE	---	Fabrication Techniques for MEMS Based Sensors: Clinical Perspective (IISC)	<ol style="list-style-type: none"> 1. Mathematics Aspects of Biomedical Electronic System Design (IISC) 2. Cryptography and Network Security (IITKGP) 	---
CSE	---	---	<ol style="list-style-type: none"> 1. Artificial Intelligence: Search Methods for Problem Solving (IITM) 2. Social Networks (IIT Ropar) 3. Cloud Computing (IITKGP) 	<ol style="list-style-type: none"> 1. Introduction to Internet of Things (IITKGP) 2. Software Project Management (IITKGP)
IT	---	---	<ol style="list-style-type: none"> 1. Artificial Intelligence: Search Methods for Problem Solving (IITM) 2. Cloud Computing (IITKGP) 	<ol style="list-style-type: none"> 1. Real Time Systems (IITKGP) 2. Software Project Management (IITKGP)


 21/6/22
 REGISTRAR