

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

R18 B.Tech. List of SWAYAM MOOCS Courses as Electives for AY 2023-24 (July – December 2023 Session)

R18 B.Tech. III Year I Semester

Dept.	MOOCS Course (s) (Professional Elective – I)	MOOCS Course (s) (Professional Elective – II)		
Civil	1. Optimization Methods for Civil Engineering			
Engg.	(IITG)			
	Rock Mechanics and Tunneling (IITKGP)	- nr		
EEE	1. An Introduction to Coding Theory (IITK)			
	 Introduction To Computer and Network 			
	Performance Analysis Using Queuing Systems	H. A. S.		
ECE	(IITB)			
7	2. Modern Digital Communication Techniques			
	(IITKGP)			
	Electrical Measurement and Electronic			
	Instruments (IITKGP)			
	2. Introduction to Operating Systems (IITM)			
EIE	3. Robotics (IITKGP)			
	4. Industrial Robotics: Theories for			
	Implementation (IIT-ISM Dhanbad)			
	5. Introduction to Robotics (IITM)			
	Computer Vision (IITKGP)	1. Computer Graphics (IITG)		
CSE	2. Programming, Data Structures and Algorithms	2. Natural Language Processing (IITKGP)		
W-	Using Python (CMI)	3(1)		
NAMES	Multi-Core Computer Architecture (IITG)	1. Computer Graphics (IITG)		
IT	2. Computer Vision (IITKGP)	2. Introduction to Machine Learning (IITKGP)		
CSE	Computer Vision (IITKGP)	Software Testing (IITKGP)		
(AIML)/	2. Computer Graphics (IITG)	2. Pattern Recognition and Applications		
AIDS/		(IITKGP)		
AIML		3. Computer Vision (IITKGP)		
CSE	1. Applied Accelerated Artificial Intelligence	Data Science for Engineers (IITM)		
(Cyber	(IIT Palakkad)	2. Introduction To Industry 4.0 And Industrial		
Security)	2. Cloud Computing (IITKGP)	Internet of Things (IITKGP)		
	1. Applied Accelerated Artificial Intelligence	1. Computer Vision (IITKGP)		
CSE (Data	(IIT Palakkad)	2. Programming, Data Structures and Algorithms		
Science)	2. Computer Graphics (IITG)	Using Python (CMI)		
	3. Computer Vision (IITKGP)	ong Tymon (Olin)		
	Design and Analysis of Algorithms (CMI)	1. Introduction to Machine Learning (IITKGP)		
CSE (IOT)		2. Software Engineering (IITKGP)		
	1 Multi Cara Computer Architecture (HTC)			
CSE	 Multi-Core Computer Architecture (IITG) Distributed Systems (IIT Patna) 	1. Computer Vision (IITKGP)		
Networks)	3. Operations Research (IITR)	2. Data Science for Engineers (IITM)		
inciworks)	3. Operations Research (ITTR)	3. Introduction To Game Theory and Mechanism Design (IITB)		
CE	Computer Vision (IITKGP)	Introduction to Internet of Things (IITKGP)		
(Software	2. Computer Graphics (IITG)	Software Conceptual Design (IITB)		
Engg.)	Si Caranta de Caranta	Dough (IIID)		
Computer	1. Data Science for Engineers (IITM)	1. Statistical Learning for Reliability Analysis		
Sc. and	2. Computer Vision (IITKGP)	(IITKGP)		
Design	, , , , , , , , , , , , , , , , , , ,	2. Natural Language Processing (IITKGP)		

R18 B.Tech. IV Year I Semester

Dept.	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.		Remote Sensing and GIS (IITG) Ground Improvement (IITKGP) Bridge Engineering (IIT-ISM)	 Water Economics and Governance (IITKGP) Sustainable Engineering Concepts and Life Cycle Analysis (IITKGP) Availability and Management of Ground Water Resources (IIT – ISM) 	
EEE		Real-time Digital Signal Processing (IISc)	Design of Photovoltaic Systems (IISc)	to many A
Mech. Engg.	Metal Additive Manufacturing (IITK) Automation in Manufacturing (IITG)	Power Plant Engineering (IITR)	Computational Fluid Dynamics (IITKGP)	
ECE		Artificial Intelligence: Search Methods for Problem Solving (IITM) Python For Data Science (IITM) Digital Image Processing (IITKGP) Pattern Recognition and Application (IITKGP)	Mathematics Aspects of Biomedical Electronic System Design (IISc) Database Management System (IITKGP) Social Network Analysis (IITD) Social Networks (IIT Ropar)	
EIE		1. Fabrication Techniques for MEMS Based Sensors: Clinical Perspective (IISc)	Mathematics Aspects of Biomedical Electronic System Design (IISc) Introduction To Computer and Network Performance Analysis Using Queuing Systems (IITB) Artificial Intelligence: Search Methods for Problem Solving (IITM)	
CSE			1. Applied Accelerated Artificial Intelligence (IIT Palakkad) 2. Cloud Computing (IITKGP)	Introduction to Internet of Things (IITKGP) Computational Complexity (IITH)

IT		 Applied Accelerated Artificial Intelligence (IIT Palakkad) Cloud Computing (IITKGP)	Reinforcement Learning (IITM) Advanced Distributed Systems (IITD)
CSE (AIML)		 Cloud Computing (IITKGP) Introduction To Game Theory and Mechanism Design (IITB)	Social Network Analysis (IITD) Statistical Learning for Reliability Analysis (IITKGP)
CSE (Cyber Sec.)	****	 Deep Learning (IIT Ropar) Privacy And Security in Online social media (IIITH)	Big Data Computing (IIT Patna) Introduction To Haskell Programming (CMI)
CSE (Data Science)		 Natural Language Processing (IITKGP) Introduction to Internet of Things (IITKGP) 	 Cloud Computing (IITKGP) Data Science for Engineers (IITM)
CSE (IOT)		 1. Introduction To Industry 4.0 And Industrial Internet of Things (IITKGP)	Introduction to Machine Learning (IITKGP) Distributed Systems (IIT Patna)
CSE (Networ ks)		 Deep Learning (IIT Ropar) Cyber Security and Privacy (IITM) 	Introduction to Machine Learning (IITKGP) Introduction To Haskell Programming (CMI)
CE (Softwa re Engg.)	***	 Natural Language Processing (IITKGP) Software Testing (IITKGP)	Cyber Security and Privacy (IITM) Cloud Computing (IITKGP)

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.

REGISTRAR