



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**R16 & R18 B. Tech. List of SWAYAM Courses as Electives for AY 2020-21**

**R18 B.TECH III Year I Semester**

Name of the Department	MOOCS Course(s) (Professional Elective – I)	MOOCS Course(s) (Professional Elective – II)
Civil Engineering / Civil & Environmental Engineering	Theory of Elasticity (IITKGP 12 Weeks)	--
	Advanced Concrete Technology (IITM 12 Weeks)	
	Mechanics of Materials (IITM 12 Weeks)	
Electrical and Electronics Engineering	Design of photovoltaic systems (IISC 12 Weeks)	--
	Probability Foundations for Electrical Engineers (IITM 12 Weeks)	
Electronics and Communication Engineering	Introduction to internet of things (IIT KGP 12 Weeks)	--
	Fiber Optic Communication Technology (IITM 12 Weeks)	
Electronics and Instrumentation	Fiber Optic Communication Technology (IITM 12 Weeks)	--
Computer Science and Engineering	Big Data Computing (IITP 8 Weeks)	Deep Learning for Computer Vision (IITH 12 Weeks)
	Social Networks (IIT Ropar 12 Weeks)	Software Testing (IITB 12 Weeks)
		Data Science for Engineers (IITM 8 Weeks)
Information Technology	Google Cloud Computing Foundations (IIT KGP & Google 8 Weeks)	Deep Learning for Computer Vision (IITH 12 Weeks)
		Reinforcement Learning (IITM 12 Weeks)
	Introduction to Machine Learning (IITM 12 Weeks)	Social Networks (IIT Ropar 12 Weeks)

**R16 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)
Civil Engineering / Civil & Environmental Engineering	Mechanics of Materials (IITM 12 Weeks)	Introduction to Engineering Seismology (IISc 12 Weeks)	Design of Masonry Structures (IITM 12 Weeks)
	Foundation Engineering (IIT KGP 12 Weeks)	Introduction to Multimodal Urban Transportation	Municipal Solid Waste Management (IITG 12 Weeks)

		Systems (MUTS) (IIT KGP 12 Weeks)	
<b>Electrical and Electronics Engineering</b>	The Joy of Computing using Python (IIT Ropar 12 Weeks)	Linear System Theory (IITM 12 Weeks)	Introduction to Robotics (IITM 12 Weeks)
	DC Microgrid and Control System (IITR 8 Weeks)	Introduction to Smart Grid (IITR 8 Weeks)	Fundamentals of Electric vehicles: Technology & Economics (IITM 8 Weeks)
<b>Mechanical Engineering / Material Science &amp; Nanotechnology</b>	Industrial Safety Engineering (IIT KGP 12 Weeks)	Computational Fluid Dynamics using Finite Volume Method (IITM 12 Weeks)	Manufacturing Systems Technology I & II (IITK 12 Weeks)
	Dynamic Behaviour of Materials (IIT KGP 12 Weeks)		
<b>Electronics and Communication Engineering</b>	Deep Learning (IIT KGP 12 Weeks)	Introduction to internet of things (IIT KGP 12 Weeks)	Introduction to Embedded System Design (IIT Jammu 12 Weeks)
		Introduction to Wireless and Cellular Communications (IITM 12 Weeks)	Introduction to Robotics (IITM 12 Weeks)
<b>Electronics and Instrumentation</b>	Deep Learning (IIT KGP 12 Weeks)	Introduction to Machine Learning (IITM 12 Weeks)	Introduction to Robotics (IITM 12 Weeks)
<b>Computer Science and Engineering</b>	The Joy of Computing using Python (IIT Ropar 12 Weeks)	Deep Learning for Computer Vision (IITH 12 Weeks)	Google Cloud Computing Foundations (IIT KGP & Google 8 Weeks)
	Social Networks (IIT Ropar 12 Weeks)		
<b>Information Technology</b>	High Performance Computing for Scientists and Engineers (IIT KGP 8 Weeks)	Social Networks (IIT Ropar 12 Weeks)	Business Analytics & Text Mining Modeling Using Python (IITR 8 Weeks)

  
 REGISTRAR  
 22/01/2020