



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
MINOR IN ELECTRONICS AND COMMUNICATION ENGINEERING (MECE)

MINOR CURRICULUM-1

[for ME and CE]

EQUIVALENT MOOCs – EVEN SEMESTER, JANUARY-APRIL 2025, AY 2024-25

MINOR COMPULSORY COURSES			EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL			
S.No	Course Code	Course Name	Course Name, Duration & Course Code	C	Course Dates*	Course Enrollment Link
1	U18MEC1001	Analog Electronics	Analog Electronic Circuits (12 weeks) noc25-ee05	3	CCD: April 11, 2025	https://onlinecourses.nptel.ac.in/noc25_ee05/preview
					LDR: May 4, 2025	
2	U18MEC1002	Digital Electronics	Digital Electronic Circuits (12 weeks)		CCD:	https://onlinecourses.nptel.ac.in/noc25_ee20/preview
					LDR:	
3	U18MEC1003	Signals and Systems	Signals and Systems (12 weeks) noc25-ee70	3	CCD: April 11, 2025	https://onlinecourses.nptel.ac.in/noc25_ee70/preview
					LDR: May 3, 2025	
MINOR ELECTIVE COURSES (any 3 to 6 courses)						
4	U18MEC1004	Communication Engineering	Principles of Digital Communication (12 weeks)		CCD:	https://onlinecourses.nptel.ac.in/noc25_ee69/preview
					LDR:	
5	U18MEC1005	Digital Signal Processing	Digital Signal Processing and its Applications (12 weeks) noc25-ee23	3	CCD: April 11, 2025	https://onlinecourses.nptel.ac.in/noc25_ee23/preview
					LDR: May 4, 2025	
6	U18MEC1006	Microprocessors and Microcontrollers	Microprocessors and Microcontrollers (12 weeks) noc25-ee49	3	CCD: April 11, 2025	https://onlinecourses.nptel.ac.in/noc25_ee49/preview
					LDR: April 27, 2025	
7	U18MEC1007	Introduction to	Embedded Systems Design (12 weeks)		CCD:	https://onlinecourses.nptel.ac.in/noc25_cs30/preview

		Embedded systems			LDR:	
8	U18MEC1008	CMOS Digital VLSI Design	CMOS Digital VLSI Design (8 weeks) noc25-ee11	2	CCD: March 14, 2025 LDR: March 30, 2025	https://onlinecourses.nptel.ac.in/noc25-ee11/preview ----
9	U18MEC1009	Digital Image Processing	NOT AVAILABLE THIS SEMESTER		CCD: LDR:	----
10	U18MEC1010	Wireless and Cellular Communications	NOT AVAILABLE THIS SEMESTER		CCD: LDR:	----
11	U18MEC1011	Antennas	NOT AVAILABLE THIS SEMESTER		CCD: LDR:	----
12	U18MEC1012	Fiber Optic Communication Technology	NOT AVAILABLE THIS SEMESTER		CCD: LDR:	----
13	U18MEC1013	Sensors and Actuators	Sensors and Actuators (12 weeks)		CCD: LDR:	https://onlinecourses.nptel.ac.in/noc25-ee76/preview
14	U18MEC1014	Wireless AdHoc and Sensor Networks	NOT AVAILABLE THIS SEMESTER		CCD: LDR:	----
15	U18MEC1015	Internet of Things	Introduction To Industry 4.0 And Industrial Internet Of Things (OR) Introduction To Internet Of Things 12 weeks		CCD: LDR:	https://onlinecourses.nptel.ac.in/noc25-cs43/preview https://onlinecourses.nptel.ac.in/noc25-cs44/preview
16	U18MEC1016	Robotics	Robotics: Basics and Selected Advanced Concepts (12 weeks)		CCD: LDR:	https://onlinecourses.nptel.ac.in/noc25-me70/preview

17	U18MEC1017	Microwave Theory and Techniques	NOT AVAILABLE THIS SEMESTER		CCD:	---
					LDR:	
18	U18MEC1018	Machine Learning	Introduction to Machine Learning (12 weeks) or Machine Learning, ML		CCD:	https://onlinecourses.nptel.ac.in/noc25_cs46/preview
					LDR:	https://onlinecourses.nptel.ac.in/noc25_cs50/preview

*C:Credits;CCD:CourseCommencementDate;LDR>LastDateofRegistration

S.No	MINOR LABORATORY COURSES	LaboratoryCourses(any2courses)-TOBETAKENINTHEMINORDEPARTMENT		2 credits	
19		U18MEC1019	Analogand DigitalCircuitsLaboratory		
20		U18MEC1020	CommunicationsEngineeringLaboratory		
21		U18MEC1021	SignalProcessingLaboratory		
22		U18MEC1022	Microprocessorsand Embedded systems Laboratory		
<i>TotalCreditstobe earned</i>				18+2	

Date:07.12.2024MOOCsCoordinator

HeadoftheDepartment

Dean,AcademicAffairs