



**KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL HONOURS
IN ELECTRONICS AND COMMUNICATION ENGINEERING (HECE) HONOURS
CURRICULUM**

EQUIVALENT MOOCs - EVEN SEMESTER, JAN - APRIL 2025, AY 2024-25

HONOUR SELECTIVE COURSES (any 6 to 9 courses to earn 18 credits)			EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL			
S.No	Course Code	Course Name	Course Name, Duration & Course Code	C*	Course Dates*	Course Enrollment Link
1.	U18HEC1001	Digital VLSI Testing	Digital VLSI Testing (12 weeks) noc25-ee25	3	CCD: April 11, 2025 LDR: April 27, 2025	https://onlinecourses.nptel.ac.in/noc25_ee25/preview
2.	U18HEC1002	Coding Theory	NOT AVAILABLE THIS SEMESTER	-	CCD: LDR:	
3.	U18HEC1003	Modern Digital Communication Techniques	NOT AVAILABLE THIS SEMESTER	-	CCD: LDR:	
4.	U18HEC1004	Computer Vision and Image Processing - Fundamentals and Applications	Computer Vision and Image Processing - Fundamentals and Applications (12 WEEKS)	3	CCD: April 11, 2025 LDR: April 27, 2025	https://onlinecourses.nptel.ac.in/noc25_ee13/preview
5.	U18HEC1005	Software Defined Radio	NOT AVAILABLE THIS SEMESTER	-	CCD: LDR:	
6.	U18HEC1006	Millimeter Wave			CCD:	

		Technology			LDR:	
7.	U18HEC1007	MultirateDSP	Multirate DSP (12 weeks) noc25-ee52	3	CCD:April11, 2025 LDR:May32025	https://onlinecourses.nptel.ac.in/noc25_ee52/preview
8.	U18HEC1008	Microwave Theory and Techniques	NOTAVAILABLETHISSEMESTER	-	CCD: LDR:	----
9.	U18HEC1009	Fabrication Techniquesfor MEMs-based Sensors:Clinical Perspective	NOTAVAILABLETHISSEMESTER	-	CCD: LDR:	--
10.	U18HEC1010	PrinciplesofSignal Estimation for MIMO/ OFDMWireless Communication	FundamentalsofMIMOWireless Communication (8Weeks)	3	CCD:March14,2025 LDR:notgiven	https://onlinecourses.nptel.ac.in/noc25_ee38/preview
11.	U18HEC1011	Deep Learning for Computer Vision	Computer Vision And Image Processing-FundamentalsAnd Applications (12 weeks) Or ModernComputer Vision (12 weeks)	3	CCD:April11,2025 LDR:April27,2025	https://onlinecourses.nptel.ac.in/noc25_ee13/preview or https://onlinecourses.nptel.ac.in/noc25_ee51/preview
12.	U18HEC1012	Artificial Intelligence	ArtificialIntelligence:Knowledge Representation	3	CCD:January20,2025to April11,2025 LDR:January27,2025	https://onlinecourses.nptel.ac.in/noc25_cs07/preview

			And Reasoning (12 weeks)			
13.	U18HEC1013	IndustrialInternetof things	IntroductionToIndustry4.0And Industrial InternetOfThings(12 Weeks) Or IntroductionToInternetOf Things	3	CCD:January20,2025to April11,2025	https://onlinecourses.nptel.ac.in/noc25_cs43/preview or https://onlinecourses.nptel.ac.in/noc25_cs44/preview
					LDR:January27,2025	
14.	U18HEC1014	Robotics	RoboticsandControl:Theoryand Practice (8 Weeks) OR Robotics: Basics and Selected AdvancedConcepts(12 Weeks) OR AdvancedRoboticsApplications	3	CCD:January20,2025to March14,2025	https://onlinecourses.nptel.ac.in/noc25_me69/preview OR https://onlinecourses.nptel.ac.in/noc25_me70/preview or https://onlinecourses.nptel.ac.in/noc25_me85/preview
					LDR:January27,2025	
15.	U18HEC1015	DataScience	DataScienceforEngineers (12 weeks)	3	CCD:January20,2025to March14,2025	https://onlinecourses.nptel.ac.in/noc25_cs20/preview
					LDR:January27,2025	

*C:Credits CCD:Course Commencement Date;LDR:Last Date of Registration

-	Honours Laboratory Courses	Laboratory Courses (any 2 courses) – TO BE TAKEN IN THE PARENT DEPARTMENT		
16		U18HEC1016	VLSI Design Laboratory	2 credits
17		U18HEC1017	Advanced Communication Laboratory	
18		U18HEC1018	Signal Processing and Applications Laboratory	
19		U18HEC1019	Antenna Design Laboratory	
<i>Total Credits to be earned</i>				18+2

Date: 07.12.2024 MOOCs Coordinator

Head of the Department

Dean, Academic Affairs