Kakatiya Institute Of Technology And Science, Warangal

HONOURS IN ELECTRONICS AND COMMUNICATION ENGINEERING (HECE)

HONOURS CURRICULUM & EQUIVALENT MOOCs [URR18-R22][July-Dec 2026]
A.Y. 2026-27 (ODD Semester)

Date: 30.7.2026

HONOURS (in ECE) [URR18-R22] ELECTIVE COURSES (Any 6 to 9 Courses to earn 16 Credits)			EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL [July-Dec 2026]			
S.No.	**Course Code**	**Course Name**	**Course Name, Duration & Course Code**	**C***	**Course Dates***	**Course Enrollment Link**
1.	U18HEC1001	Digital VLSI Testing	**NOT AVAILABLE FOR THIS SEMESTER**	--	CCD: LDR:	--
2.	U18HEC1002	**Coding Theory**	**An Introduction to Coding Theory (noc26-ee116) [8 weeks]**	**2**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee116*
3.	U18HEC1003	**Modern Digital Communication Techniques**	**Modern Digital Communication Techniques (noc26-ee179) [12weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee179*
4.	U18HEC1004	Computer Vision and Image Processing- Fundamentals and Applications	**NOT AVAILABLE FOR THIS SEMESTER**	--	CCD: LDR:	--
5.	U18HEC1005	**Software Defined Radio**	**Software-Defined Radio (SDR) Hands-on for Communication Systems Design (noc26-ee197) [8 weeks]**	**2**	**CCD: Aug 17, 2026** **LDR: Aug 28, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee197*

6.	U18HEC1006	Millimeter Wave Technology	**NOT AVAILABLE FOR THIS SEMESTER**		CCD: LDR:	
7.	U18HEC1007	Multirate DSP	**NOT AVAILABLE FOR THIS SEMESTER**	--	CCD: LDR:	--
8.	U18HEC1008	**Microwave Theory and Techniques**	**Microwave Engineering (noc26-ee190) [12 Weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee190*
9.	U18HEC1009	**Fabrication Techniques for MEMs-based Sensors: Clinical Perspective**	**Fabrication Techniques for MEMs-based Sensors: Clinical Perspective (noc26-ee126) [12 Weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee126*
10.	U18HEC1010	**Principles of Signal Estimation for MIMO/OFDM Wireless Communication**	**Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications (noc26-ee115) [8 Weeks]**	**2**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee115*
11.	U18HEC1011	**Deep Learning for Computer Vision**	**Deep Learning for Computer Vision (noc26-cs174) [12weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14,2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs174*
12.	U18HEC1012	**Artificial Intelligence**	**Artificial Intelligence: Concepts and Techniques (noc26-cs129) [12weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs129*
13.	U18HEC1013	**Industrial Internet of things**	**Introduction to Industry 4.0 and Industrial Internet of Things (noc26-cs160) [12weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs160*
14.	U18HEC1014	**Robotics**	**Introduction to Application of Artificial Intelligence to Robotics (noc26-cs183) [12 weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs183*

15.	U18HEC1015	**Data Science**	**Data Science for Engineers (noc26-cs112) [8 weeks]**	**2**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	***https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs112***

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

HONOURS (in ECE) LABORATORY Courses / Mini Project (optional) [URR18-R22] **(ANY 2 Lab Courses- to be taken in the Parent Dept. i.e. ECE)** **A.Y. 2026-27 (ODD Semester)**			
16	U18HEC1016	VLSI Design Laboratory	**2 credits**
17	U18HEC1017	Advanced Communication Laboratory	
18	U18HEC1018	Signal Processing and Applications Laboratory	
19	U18HEC1019	Antenna Design Laboratory	
OR			
20	U18HEC1020	Honors Mini project (**optional**)	**2 credits**
		Total Credits to be earned	**16+2**

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Dt: 30.07.2026 **Dept. MOOCs Coordinator** **Head, Dept. of ECE** **Prof. I/C H & M Program** **Dean,** ***Academic Affairs***