Kakatiya Institute Of Technology And Science, Warangal

MINOR IN ELECTRONICS AND COMMUNICATION ENGINEERING (MECE)

MINOR-2 CURRICULUM (in ECE) & EQUIVALENT MOOCs [July-Dec 2026]
(For EIE, EEE, CSE, IT & ECI)[URR18-R22]
A.Y. 2026-27 (ODD Semester)

Date: 30.07.2026

MINOR-2 (in ECE) [URR18-R22] COMPULSORY COURSES			EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL[July-Dec 2026] [For EIE, EEE, CSE, IT & ECI (URR18-R22)]			
S.No.	**Course Code**	**Course Name**	**Course Name, Duration & Course Code**	**C***	**Course Dates***	**Course Enrollment Link**
1	U18MEC2001	Introduction to Embedded systems	NOT AVAILABLE FOR THIS SEMESTER	--	CCD: LDR:	--
2	U18MEC2002	**Modern digital Communication techniques**	**Modern Digital Communication Techniques (noc26-ee179) [12 weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee179*
3	U18MEC2003	**CMOS Digital VLSI Design**	**Low Voltage CMOS Circuit Operation (noc26-ee110) [8 weeks]**	**2**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee110*
MINOR-2(in ECE) [URR18-R22] ELECTIVE COURSES (Any 3 to 6 Courses)			**EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL[July-Dec 2026] [For EIE, EEE, CSE, IT & ECI (URR18-R22)]**			
4	U18MEC2004	Biomedical Signal Processing	NOT AVAILABLE FOR THIS SEMESTER	--	CCD: LDR:	--
5	U18MEC2005	Fundamentals of MIMO 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*

6	U18MEC2006	Evolution of Air Interface Towards 5G	NOT AVAILABLE FOR THIS SEMESTER	--	CCD: LDR:	--
7	U18MEC2007	**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*
8	U18MEC2008	Computer Vision and Image Processing-Fundamentals and Applications	NOT AVAILABLE FOR THIS SEMESTER	--	CCD: LDR:	--
9	U18MEC2009	**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*
10	U18MEC2010	**Wireless and Cellular Communications**	**Introduction to Wireless and Cellular Communications (noc26-ee146) [12 weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee146*
11	U18MEC2011	**Antennas**	**Analysis and Design Principles of Microwave Antennas (noc26-ee202) [8 weeks]**	**2**	**CCD: Aug 17, 2026** **LDR: Aug 28, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee202*
12	U18MEC2012	**Fiber Optic Communication Technology**	**Fiber Optic Communication Technology (noc26-ee137) [12 weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee137*
13	U18MEC2013	**Sensors and Actuators**	**Micro sensors and Nan sensors (noc26-ee193) [12 weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee193*
14	U18MEC2014	Wireless Ad Hoc and Sensor Networks	NOT AVAILABLE FOR THIS SEMESTER	--	CCD: LDR:	--

15	U18MEC2015	Industrial Internet of Things	**NOT AVAILABLE FOR THIS SEMESTER**	--	CCD: LDR:	--
16	U18MEC2016	Robotics and Computer Vision	**NOT AVAILABLE FOR THIS SEMESTER**	--	CCD: LDR:	--
17	U18MEC2017	**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***
18	U18MEC2018	Peer To Peer Networks	**NOT AVAILABLE FOR THIS SEMESTER**	--	CCD: LDR:	--

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

MINOR-2 (in ECE) LABORATORY Courses / Mini Project (optional) [For For EIE, EEE, CSE, IT & ECI (URR18-R22)] **(ANY 2 Lab Courses- to be taken in the Parent Dept. i.e. ECE)**			
19	U18MEC2019	Analog and Digital Circuits Laboratory	**2 credits**
20	U18MEC2020	Communications Engineering Laboratory	
21	U18MEC2021	Signal Processing Laboratory	
22	U18MEC2022	Microprocessors and Embedded systems Laboratory	
OR			
23	U18MEC2023	**MINOR-2** 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***