Kakatiya Institute Of Technology And Science, Warangal

MINOR IN ELECTRONICS AND COMMUNICATION ENGINEERING (MECE)

MINOR-1 CURRICULUM (in ECE) & EQUIVALENT MOOCs [July-Dec 2026]
(For ME & CE)[URR18-R22]

A.Y. 2026-27 (ODD Semester)

Date: 30.07.2026

MINOR-1 (in ECE) COMPULSORY COURSES			EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL [July-Dec 2026] [For ME & CE (URR18-R22)]			
S.No.	**Course Code**	**Course Name**	**Course Name, Duration & Course Code**	**C***	**Course Dates***	**Course Enrollment Link**
1	U18MEC1001	**Analog Electronics**	**Analog Electronic Circuits-IITKGP (noc26-ee174) [12weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee174*
2	U18MEC1002	**Digital Electronics**	**Digital Circuits (noc26-ee177) [12weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee177*
3	U18MEC1003	Signals and Systems	**NOT AVAILABLE FOR THIS SEMESTER**	**--**	CCD: LDR:	--
MINOR-1 (in ECE) ELECTIVE COURSES (Any 3 to 6 Courses)			**EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL [July-Dec 2026] [For ME & CE (URR18-R22)]**			
4	U18MEC1004	Communication Engineering	**NOT AVAILABLE FOR THIS SEMESTER**	--	CCD: LDR:	--
5	U18MEC1005	**Digital Signal Processing**	**Real-Time Digital Signal Processing (noc26-ee166) [12weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	*https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee166*

6	U18MEC1006	Microprocessors and Microcontrollers	**NOT AVAILABLE FOR THIS SEMESTER**	**--**	CCD: LDR:	**--**
7	U18MEC1007	Introduction to Embedded systems	**NOT AVAILABLE FOR THIS SEMESTER**	**--**	CCD: LDR:	**--**
8	U18MEC1008	**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***
9	U18MEC1009	**Digital Image Processing**	**Digital Image Processing (noc26-ee178) [12 weeks]**	**3**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	***https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ee178***
10	U18MEC1010	**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	U18MEC1011	**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	U18MEC1012	**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	U18MEC1013	**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	U18MEC1014	Wireless Ad Hoc and Sensor Networks	**NOT AVAILABLE FOR THIS SEMESTER**	--	CCD: LDR:	--
15	U18MEC1015	Internet of Things	**NOT AVAILABLE FOR THIS SEMESTER**	--	CCD: LDR:	--

16	U18MEC1016	**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***
17	U18MEC1017	**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	U18MEC1018	**Machine Learning**	***Introduction to Machine Learning – IITKGP (noc26-cs119)*** **[8 weeks]**	**2**	**CCD: Jul 20, 2026** **LDR: Aug 14, 2026**	***https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs119***

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

MINOR-1 (in ECE) LABORATORY Courses / Mini Project (optional) [For ME & Civil (URR18-R22)] **(ANY 2 Lab Courses- to be taken in the Parent Dept. i.e. ECE)**			
19	U18MEC1019	Analog and Digital Circuits Laboratory	**2 credits**
20	U18MEC1020	Communications Engineering Laboratory	
21	U18MEC1021	Signal Processing Laboratory	
22	U18MEC1022	Microprocessors and Embedded systems Laboratory	
OR			
23	U18MEC1023	**MINOR-1** 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***