



**KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL**  
**MINOR IN ELECTRONICS AND COMMUNICATION ENGINEERING (MEC)-MINOR CURRICULUM**  
**EQUIVALENT MOOCs – ODD SEMESTER, JULY-DEC 2021, AY 2021-22**

**MINOR CURRICULUM-2 (For EEE, IT, CSE, EIE, ECI Branch Students)**

S. No	Course Code	Course Name	EQUIVALENT COURSES OFFERED BY								
			SWAYAM-NPTEL			COURSERA / UDEMY			SPOKEN TUTORIAL - IITB		
MINOR COMPULSORY COURSES			Course Name	C	Course Dates*	Course Name	C	Course Dates*	Course Name	C	Course Dates*
1	U18MEC2001	Introduction to Embedded systems	--	-	CCD:	--	-	CCD:	--	--	CCD:
					LDR:			LDR:		LDR:	
2	U18MEC2002	Modern digital Communication techniques	--	-	CCD:	--	-	CCD:	--	--	CCD:
					LDR:			LDR:		LDR:	
3	U18MEC2003	CMOS Digital VLSI Design	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:		LDR:	
MINOR ELECTIVE COURSES											
4	U18MEC2004	Biomedical Signal Processing	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:		LDR:	
5	U18MEC2005	Fundamentals of MIMO Wireless Communication	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:		LDR:	
6	U18MEC2006	Evolution of Air Interface towards 5G	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:		LDR:	
7	U18MEC2007	Coding Theory	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:		LDR:	

8	U18MEC2008	Computer Vision and Image Processing-Fundamentals and Applications	--	--	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:
9	U18MEC2009	Software Defined Radio	<i>Basics of software defined Radios and Practical Applications</i>	1	CCD: 26 Jul 2021	-	-	CCD:	--		CCD:
					LDR: 02 Aug 2021			LDR:			LDR:
10	U18MEC2010	Wireless and Cellular Communications	<i>Introduction to Wireless and Cellular Communications</i>	3	CCD: 26 Jul 2021	--	-	CCD:	--	-	CCD:
					LDR: 02 Aug 2021			LDR:			LDR:
11	U18MEC2011	Antennas	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:
12	U18MEC2012	Fiber Optic Communication Technology	<i>Fiber Optic Communication Technology</i>	3	CCD: 26 Jul 2021	--	-	CCD:	--	-	CCD:
					LDR: 02 Aug 2021			LDR:			LDR:
13	U18MEC2013	Sensors and Actuators	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:
14	U18MEC2014	Wireless Ad Hoc and Sensor Networks	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:
15	U18MEC2015	Industrial Internet of Things	<i>Introduction to Industry 4.0 and Industrial Internet of Things</i>	3	CCD: 26 Jul 2021	--	-	CCD:	--	-	CCD:
					LDR: 02 Aug 2021			LDR:			LDR:
16	U18MEC2016	Robotics and Computer Vision	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:
17	U18MEC2017	Microwave Theory and Techniques	<i>Microwave Theory and Techniques</i>	3	CCD: 26 Jul 2021	--	-	CCD:	--	-	CCD:
					LDR: 02 Aug 2021			LDR:			LDR:
18	U18MEC2018	Peer To Peer Networks	--		CCD:	--	3	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:

- I. In exigency situations such as the student already completed the listed compulsory courses(s) on his/her own interest during previous semesters through valid MOOCs etc, the HoD in consultation with Dean-AA shall propose an alternative course(s) for the specific scenario, after verification of relevant documents.
- II. By the end of April of every academic year, the department in consultation with Dean-AA, shall
- A. notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the list of courses notified under Honours curriculum
  - B. propose a new course(s) in the place of any listed course(s) in the Honours curriculum, in case no equivalent course is found in MOOCs

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

-	<b>Minor Laboratory Courses</b>	<b>Laboratory Courses ( any 2 courses ) - TO BE TAKEN IN THE MINOR DEPARTMENT</b>		
19		U18MEC2019	ECAD Laboratory	<b>2 credits</b>
20		U18MEC2020	Communication Engineering Laboratory	
21		U18MEC2021	Circuit Simulation Laboratory	
22		U18MEC2022	Microwave and Optical Communications Laboratory	
			<b>Total Credits to be earned</b>	<b>18+2</b>

**Date: 07.06.2021**

**Sd/-  
D.Venu  
MOOCs Coordinator**

**Sd/-  
Dr. B. Rama Devi  
Head of the Department**

**Sd/-  
Dr. V. Rajagopal  
Dean, Academic Affairs**