



**KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL**  
**MINOR IN ELECTRONICS AND COMMUNICATION ENGINEERING (MEC) -MINOR CURRICULUM**  
**EQUIVALENT MOOCs - ODD SEMESTER, JULY-DEC 2020, AY 2020-21**

**MINOR CURRICULUM-1 (For ME & CE 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	U18MEC1001	Analog Electronics	<i>Analog Electronic Circuit</i>	3	CCD: 14 Sep 2020	--	-	CCD:	--	--	CCD:
					LDR: 21 Sep 2020			LDR:			LDR:
2	U18MEC1002	Digital Electronics	<i>Digital Circuits</i>	3	CCD: 14 Sep 2020	--	-	CCD:	--	--	CCD:
					LDR: 21 Sep 2020			LDR:			LDR:
3	U18MEC1003	Signals and Systems	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:
MINOR ELECTIVE COURSES											
4	U18MEC1004	Communication Engineering	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:
5	U18MEC1005	Digital Signal Processing	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:
6	U18MEC1006	Microprocessors and Microcontrollers	--	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:
7	U18MEC1007	Introduction to Embedded systems	<i>Introduction to Embedded System Design</i>	3	CCD: 14 Sep 2020	--	-	CCD:	--	-	CCD:
					LDR: 21 Sep 2020			LDR:			LDR:

8	U18MEC1008	CMOS Digital VLSI Design	--	--	CCD: LDR:	--	-	CCD: LDR:	--	-	CCD: LDR:
9	U18MEC1009	Digital Image Processing	<i>Digital Image Processing</i>	3	CCD: 14 Sep 2020 LDR: 21 Sep 2020	-	-	CCD: LDR:	--	-	CCD: LDR:
10	U18MEC1010	Wireless and Cellular Communications	<i>Introduction to Wireless and Cellular Communications</i>	3	CCD: 14 Sep 2020 LDR: 21 Sep 2020	--	-	CCD: LDR:	--	2	CCD: LDR:
11	U18MEC1011	Antennas	--	-	CCD: LDR:	--	-	CCD: LDR:	--	-	CCD: LDR:
12	U18MEC1012	Fiber Optic Communication Technology	<i>Fiber Optic Communication Technology</i>	3	CCD: 14 Sep 2020 LDR: 21 Sep 2020	--	-	CCD: LDR:	--	-	CCD: LDR:
13	U18MEC1013	Sensors and Actuators	--	-	CCD: LDR:	--	-	CCD: LDR:	--	-	CCD: LDR:
14	U18MEC1014	Wireless Ad Hoc and Sensor Networks	--	-	CCD: LDR:	--	-	CCD: LDR:	--	-	CCD: LDR:
15	U18MEC1015	Internet of Things	<i>Introduction to internet of things (or) Introduction to Industry 4.0 and Industrial Internet of Things</i>	3	CCD: 14 Sep 2020 LDR: 21 Sep 2020	--	-	CCD: LDR:	--	-	CCD: LDR:
16	U18MEC1016	Robotics	<i>Introduction to Robotics (3) (OR) Robotics (2) &amp; Foundations of Cognitive Robotics (1)</i>	3	CCD: 14 Sep 2020 LDR: 21 Sep 2020	--	-	CCD: LDR:	--	-	CCD: LDR:
17	U18MEC1017	Microwave Theory and Techniques	<i>Microwave Theory and Techniques</i>	3	CCD: 14 Sep 2020 LDR: 21 Sep 2020	--	-	CCD: LDR:	--	-	CCD: LDR:

18	U18MEC1018	Machine Learning	Introduction to Machine Learning (3) (OR) Practical Machine Learning with Tensorflow (2)	3 or 2	CCD: 14 Sep 2020	--	3	CCD:	--	-	CCD:
					LDR: 21 Sep 2020			LDR:			LDR:
<p>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.</p> <p>II. By the end of April of every academic year, the department in consultation with Dean-AA, shall</p> <p>A. notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the list of courses notified under Honours curriculum</p> <p>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</p>											

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

		<b>Laboratory Courses ( any 2 courses ) - TO BE TAKEN IN THE MINOR DEPARTMENT</b>			
-	<b>Minor Laboratory Courses</b>	U18MEC1019	Analog and Digital Circuits Laboratory		<b>2 credits</b>
19		U18MEC1020	Communications Engineering Laboratory		
20		U18MEC1021	Signal Processing Laboratory		
21		U18MEC1022	Microprocessors and Embedded systems Laboratory		
22		<i>Total Credits to be earned</i>			

Date: 19.07.2020

MOOCs Coordinator

Head of the Department

Dean, Academic Affairs