



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
HONOURS IN ELECTRONICS & INSTRUMENTATION ENGINEERING (HEIE)
MINORS CURRICULUM
EQUIVALENT MOOCs - ODD SEMESTER, JULY-DEC 2021, AY 2022-23

S. No	Course Code	Course Name	EQUIVALENT COURSES OFFERED BY								
			SWAYAM-NPTEL			COURSERA / UDEMY			SPOKEN TUTORIAL - IITB		
MINORS ELECTIVE COURSES			Course Name	C	Course Dates*	Course Name	C	Course Dates*	Course Name	C	Course Dates*
1	U18MCI1001	Electrical Measurement and Electronic Instruments	-	-	-	--	-	CCD: LDR:	--	--	CCD: LDR:
2	U18MCI1002	Sensors & Actuators	--	--	--	--	-	--	--	--	--
3	U18MCI1003	Analog & Digital Electronics* (OR) Analog Electronic Circuits (OR) Digital Circuits	Analog Electronic Circuits *Analog Electronic Circuits Prof. Shouribrata chatterjee IITD, 12WEEKS	3	CCD: 25.07.2022	--	-	CCD:	--	--	CCD:
					LDR: 01.08.2022			LDR:			LDR:
4	U18MCI1004	Analog Electronic Circuits (OR) Digital Circuits	*	2	CCD: 25.07.2022	--	-	CCD:	--	-	CCD:
					LDR: 01.08.2022			LDR:			LDR:

5	U18MCI1005	Communication Engineering	Analog Communication Prof. Goutam Das IITKGP12WEEKS	3	CCD: 25.07.2022	--	-		--	-	--	
					LDR: 01.08.2022							
6	U18MCI1006	Signals and Systems	--	-	--	-	-		--	-		
7	U18MCI1007	Microprocessors and Microcontrollers	--	-	--	-	-		--	-		
8	U18MCI1008	Fiber Optic Communication (OR) Optical Engineering (OR) Introduction to Photonics	Fundamentals of Nano and Quantum Photonics Prof. Naresh Kumar Emani IITH/IITM 12WEEKS	3	CCD: 25.07.2022	--	-		-	-		
					LDR: 01.08.2022							
9	U18MCI1009	Digital Image Processing	Digital Image Processing IITKGP12WEEKS	3	CCD: 25.07.2022	--	-		--	-		
					LDR: 01.08.2022							
10	U18HEI1010	Wireless and cellular communications	--	-	--	-	-		--	-		
11	U18MCI1011	Biomedical signal processing	Mathematical Aspects of Biomedical Electronic System Design Prof. Chandramani Singh, IISc 12 Weeks	3	CCD: 25.07.2022	--	-		CCD:	--	-	CCD:
					LDR: 01.08.2022				LDR:			LDR:

12	U18MCI1012	Design, Technology and Innovation & Patent Drafting for Beginners (OR) Patent Law for Engineers and Scientists	-	3	-	-	-	CCD:	--	-	CCD:
					-			LDR:			LDR:
13	U18MCI1013	VLSI Design	VLSI Interconnects Prof. Sarang Pendharker IITKGP 8Weeks	3	CCD: 25.08.2022	--	-	CCD:	--	-	CCD:
					LDR: 01.08.2022			LDR:			LDR:
14	U18MCI1014	Digital Signal Processing	---		--	--	-		--	-	
15	U18MCI1015	Industrial Internet of Things	Introduction To Internet Of Things Prof. Amit Kumar Dutta IITKGP12WEEKS	3	CCD: 25.08.2022	--	-	CCD:	--	-	CCD:
					LDR: 01.08.2022			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 Minors curriculum
 - B. propose a new course(s) in the place of any listed course(s) in the Minors curriculum, in case no equivalent course is found in MOOCs

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

-		Laboratory Courses (any 2 courses) – TO BE TAKEN IN THE DEPARTMENT		
16	Minors Laboratory Courses	U18MCII1016	Advanced Instrumentation Lab	1 Credit per Lab Course
17		U18MCI1017	Advanced Signal Processing Lab	
18		U18MCII1018	Advanced VLSI Lab	
19		U18MCI1019	Embedded Applications Lab	

	Sd/-	Sd/-	
	Smt. R. Nirmala Devi	Dr. M. Raghuram	
Date: 22-06-2021	MOOCs Coordinator	Head of the Department	Dean, Academic Affairs