KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
DEPARTMENT OF ELECTRONICS AND COMUNICATION ENGINEERING
MINOR CURRICULUM

MINOR IN ELECTRONICS COMMUNICATION & NSTRUMENTATION ENGINEERING (MCI)
MINOR CURRICULUM

S.No	Course Type	Course Code	Course Name	Credits
1	**Minor Compulsory Courses**	U18MCI1001	Analog Electronic Circuits	
2		U18MCI1002	Signals and Systems	
3		U18MCI1003	Electrical Measurement and Electronic Instruments	
		Elective courses -1(any 3 to 6 courses)		
4	**Minor Elective Courses**	U18MCI1004	Digital Circuits	18
5		U18MCI1005	Sensors & Actuators	
6		U18MCI1006	Communication Engineering	
7		U18MCI1007	Integrated Circuits	
8		U18MCI1008	Digital Signal Processing	
9		U18MCI1009	Microprocessors and Interfacing	
10		U18MCI1010	Industrial Internet of Things	
11		U18MCI1011	Introduction to Embedded System Design	
12		U18MCI1012	Mathematical Foundation for Machine Learning	
13		U18MCI1013	Artificial Intelligence and Applications	
14		U18MCI1014	Wireless and Cellular Communications	
15		U18MCI1015	Fiber Optic Communications	
16		U18MCI1016	Digital Image Processing	
17		U18MCI1017	VLSI Design	
18		U18MCI1018	Biomedical Instrumentation	

I.   In exigency situations such as the student already completed the listed compulsory courses(s) or elective course(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
1. notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the courses listed under Minor curriculum
2. propose a new course(s) in the place of any course(s) listed under Minor curriculum, in case no equivalent course is found in MOOCs

-		**Laboratory Courses-1 (any 2 courses)**		
19	**Minor Laboratory Courses**	U18MCI1019	Analog and Digital Circuits Laboratory	2
20		U18MCI1020	Measurements and Sensors Laboratory	
21		U18MCI1021	Microprocessors and Embedded systems Laboratory	
22		U18MCI1022	Communications and Signal Processing Laboratory	
			Total Credits	**20**