

KAKATIYA INSTITUTE OF TECHNOLOGYAND SCIENCE, WARANGAL HONOURS IN ELECTRONICS & COMMUNICATION ENGINECRING (HEC)-HONOURS CURRICULUM

S.No	Course Type	CourseCode	Course Name	Credits	
-		Electivecourses (any 4 to 5courses)			
1		U24HEC1001	Phase-Locked Loops		
2			Digital VLSI Testing		
3		U24HEC1003	Mathematic aspects of biomedical electronic		
	Honours		system design		
4	Elective	U24HEC1004	Sensor Technologies: Physics, Fabrication, and		
	Courses		Circuits		
5		U24HEC1005	Artificial Intelligence	4= 46	
6		U24HEC1006	Integrated photonic devices and circuits	15-16	
7		U24HEC1007	Industry 4.0 and Industrial Internet of things		
8		U24HEC1008	Software Defined Radio		
9		U24HEC1009	Machine Learning and Deep Learning -		
			Fundamentals and Applications		
10		U24HEC1010	Nano Technology		
11		U24HEC1011	Coding Theory		
12		U24HEC1012	Modern Digital Communication		
			Techniques		
13		U24HEC1013	Computer Vision and Image Processing-		
			Fundamentals and Applications		
14		U24HEC1014	Microwave Theory and Techniques		
15		U24HEC1015	Principles of Signal Estimation for MIMO/		
			OFDM Wireless Communication		

- 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 MOOCsetc, the HoD in consultation with Dean-AA shall offer 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-NPTELMOOCs/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 Honour curriculum, in case no equivalent course is found in MOOCs

-		Laboratory Courses (any2courses)				
16	Honours	U24HEC1016	VLSI DesignLaboratory			
17	Laboratory	U24HEC1017	Advanced Communication Laboratory			
18	Courses	U24HEC1018	Signal Processing and Applications Laboratory	2		
19		U24HEC1019	Antenna Design Laboratory			
20	Honours	U24HEC1020		2		
	Mini-		(optional)			
	project					
	(optional)					
Total Credits 16+2						