KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
HONOURS CURRICULUM

HONOURS IN ELECTRONICS COMMUNICATION & NSTRUMENTATION ENGINEERING (HCI)
HONOURS CURRICULUM

S.No	Course Type	Course Code	Course Name	Credits
-		**Elective courses (any 6 to 9 courses)**		
1		U18HCI1001	Advanced Sensors and Actuators	
2		U18HCI1002	Mathematical Foundation for Machine Learning	
3		U18HCI1003	Advanced IoT and its Applications	
4		U18HCI1004	Artificial Intelligence Applications	
5		U18HCI1005	Op-Amp Applications: Design and Implementation	
6		U18HCI1006	Advanced communication systems	**18**
7	**Honours Elective Courses**	U18HCI1007	Data Science for Engineers	
8		U18HCI1008	Biomedical signal and Image processing	
9		U18HCI1009	Advanced Digital Signal Processing	
10		U18HCI1010	Photonics and Applications	
11		U18HCI1011	Microelectronics	
12		U18HCI1012	Digital VLSI Testing	
13		U18HCI1013	Software Defined Radio	
14		U18HCI1014	mm Wave communication	
15		U18HCI1015	Deep Learning for Computer Vision	

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 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-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

S.No	Course Type	Course Code	Course Name	Credits
-		**Laboratory Courses (any 2 courses)**		
16		U18HCI1016	Sensors and Applications Laboratory	
17	**Honours Laboratory Courses**	U18HCI1017	Advanced Communications Laboratory	**2**
18		U18HCI1018	Advanced Signal Processing and Applications Laboratory	
19		U18HCI1019	Advanced VLSI Design Laboratory	
			Total Credits	**20**