



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
DEPARTMENT OF ELECTRONICS COMMUNICATION AND INSTRUMENTATION
ENGINEERING
HONOURS IN ELECTRONICS COMMUNICATION &
INSTRUMENTATION ENGINEERING (HCI)
- HONOURS CURRICULUM

S.No	Course Type	Course Code	Course Name	Credits
-	Honours Elective Courses	Elective courses (any 4 to 5 courses)		
1		U24HCI1001	Introduction to Micro Sensors	15-16
2		U24HCI1002	Programming in Modern C++	
3		U24HCI1003	Embedded sensing, actuation and interfacing systems	
4		U24HCI1004	Advanced IoT Applications	
5		U24HCI1005	Statistical signal processing	
6		U24HCI1006	Adaptive Signal Processing	
7		U24HCI1007	Mathematical Aspects of Biomedical Electronic System Design	
8		U24HCI1008	Operating System Fundamentals	
9		U24HCI1009	Probability Foundations for Engineers	
10		U24HCI1010	Introduction to Information Theory	
11		U24HCI1011	Principles and Techniques of Modern Radar Systems	
12		U24HCI1012	Modern communication systems	
13		U24HCI1013	Photonics and Applications	
14		U24HCI1014	Mathematical Foundations for Machine Learning	
15		U24HCI1015	Practical Machine Learning with Tensorflow	
<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 offer 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 Honour curriculum, in case no equivalent course is found in MOOCs</p>				
-	Honours Laboratory Courses	Laboratory Courses (any 2 courses)		
16		U24HCI1016	Advanced Communication Systems Laboratory	2
17		U24HCI1017	Virtual Instrumentation Laboratory	
18		U24HCI1018	Programming in Modern C++	
19		U24HCI1019	Advanced signal processing Laboratory	
20	Mini project (Optional)	U24HCI1020	Mini project (Optional)	2
Total Credits				18