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

HONOURS IN ELECTRONICS AND INSTRUMENTATION ENGINEERING (**HEI**)
HONOURS CURRICULUM

S.No	Course Type	Course Code	Course Name	Credits
-			**Elective courses (any 6 to 9 courses)**	
1		U18HEI1001	Biomedical signal and Image Processing	
2		U18HEI1002	Advanced Signal Processing	
3		U18HEI1003	Advanced Image Processingand Applications	
4		U18HEI1004	Verilog HDL for VLSI Design	
5		U18HEI1005	Digital VLSI Testing	
6	**Honours Elective Courses**	U18HEI1006	Low power VLSI Design	**18**
7		U18HEI1007	Advanced Sensor Design	
8		U18HEI1008	Robotics and Automation	
9		U18HEI1009	Advanced Instrumentation Systems	
10		U18HEI1010	Embedded Systems Design	
11		U18HEI1011	Advanced IoT	
12		U18HEI1012	Artificial Intelligence	
13		U18HEI1013	Machine Learning	
14		U18HEI1014	Advanced Communications	
15		U18HEI1015	Fibre Optic Communication Techniques	

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
   1. notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the courses listed under Honours curriculum
   2. propose a new course(s) in the place of any course(s) listed under 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	**Honours Laboratory Courses**	U18HEI1016	Advanced Instrumentation Lab	
17		U18HEI1017	Advanced Signal Processing Lab	
18		U18HEI1018	Advanced VLSI Lab	**2**
19		U18HEI1019	Embedded Applications Lab	
			Total Credits	*20*