



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
HONOURS IN ELECTRONICS COMMUNICATION AND INSTRUMENTATION ENGINEERING (HCI)- HONOURS
CURRICULUM
EQUIVALENT MOOCs – ODD SEMESTER, JULY-DEC 2021, AY 2021-22

S. No	Course Code	Course Name	EQUIVALENT COURSES OFFERED BY								
			SWAYAM-NPTEL			COURSERA / UDEMY			SPOKEN TUTORIAL - IITB		
HONOURS ELECTIVE COURSES (any 6 to 9 courses to earn 18 credits)			Course Name	C	Course Dates*	Course Name	C	Course Dates*	Course Name	C	Course Dates*
1	U18HCI1001	Advanced Sensors and Actuators	--	3	LDR:	--	-	CCD	--	--	CCD:
					LDR:			:			LDR
2	U18HCI1002	Mathematical Foundation for Machine Learning	<i>Essential Mathematics for Machine Learning(3)</i>	3	CCD: 26 Jul 2021	--	-	CCD	--		CCD:
					LDR: 02 Aug 2021			:			LDR
3	U18HCI1003	Advanced IoT and its Applications	<i>Introduction to Industry 4.0 and Industrial Internet of Things (3)</i>	3	CCD: 26 Jul 2021	--		CCD	--	-	CCD:
					LDR: 02 Aug 2021			:			LDR
4	U18HCI1004	Artificial Intelligence Applications	<i>Artificial Intelligence Search Methods For Problem Solving (3)</i>	3	CCD: 26 Jul 2021	--	-	CCD	--	-	CCD:
					LDR: 02 Aug 2021			:			LDR
5	U18HCI1005	Op-Amp Applications: Design and Implementation	<i>Op-Amp Practical Applications:</i>	1	CCD: 26 Jul 2021	--	-	CCD	--	-	CCD:

			<i>Design, Simulation and Implementation</i>		LDR: 02 Aug 2021			LDR :		LDR:	
6	U18HCI1006	Advanced communication systems	--	2	CCD: 26 Jul 2021	--	-	CCD :	--	-	CCD:
					LDR: 02 Aug 2021			LDR :			LDR:
7	U18HCI1007	Data Science for Engineers	<i>Python for Data Science (1) & Data Science for Engineers (2)</i>	3	CCD: 26 Jul 2021	--	-	CCD :	--	-	CCD:
					LDR: 02 Aug 2021			LDR :			LDR:
8	U18HCI1008	Biomedical signal and Image processing	--	3	CCD:	--	2	CCD :	--	-	CCD:
					LDR:			LDR :			LDR:
9	U18HCI1009	Advanced Digital Signal Processing	--	3	CCD:	-	-	CCD :	--	-	CCD:
					LDR:			LDR :			LDR:
10	U18HCI1010	Photonics and Applications	<i>Integrated Photonics Devices and Circuits(3)</i>	3	CCD: 26 Jul 2021	--	-	CCD :	--	-	CCD:
					LDR: 02 Aug 2021			LDR :			LDR:
11	U18HCI1011	Microelectronics	<i>Microelectronics: Devices To Circuits(3)</i>	3	CCD: 26 Jul 2021	--	-	CCD :	--	-	CCD:
					LDR: 02 Aug 2021			LDR :			LDR:

12	U18HCI1012	Artificial Intelligence Digital VLSI Testing	<i>Artificial Intelligence Search Methods For Problem Solving (3)</i>	3	CCD: 26 Jul 2021	--	-	CCD :	--	-	CCD:
					LDR: 02 Aug 2021			LDR :			LDR:
13	U18HCI1013	Software Defined Radio	<i>Basics of software defined Radios and Practical Applications (1)</i>	1	CCD: 26 Jul 2021	--	-	CCD :	--	-	CCD:
					LDR: 02 Aug 2021			LDR :			LDR:
14	U18HCI1014	mm Wave communication	<i>Millimeter Wave Technology (2)</i>	2	CCD:	--	-	CCD :	--	-	CCD:
					LDR:			LDR :			LDR:
15	U18HCI1015	Deep Learning for Computer Vision	<i>Deep Learning for Computer Vision (3)</i>	3	CCD: 26 Jul 2021	--	3	CCD :	--	3	CCD:
					LDR: 02 Aug 2021			LDR :			LDR:

- 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
- notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the list of courses notified under Honours curriculum
 - 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

*C: Credits ; CCD: Course Commencement Date; LDR: Last Date of Registration

-		Laboratory Courses (any 2 courses) - TO BE TAKEN IN THE PARENT DEPARTMENT		
16	Honours	U18HCI1016	Sensors and Applications Laboratory	
17	Laboratory	U18HCI1017	Advanced Communications Laboratory	
18	Courses	U18HCI1018	Advanced Signal Processing and Applications Laboratory	2 credits
19		U18HCI1019	Advanced VLSI Design Laboratory	
			Total Credits to be earned	18+2

Date:30.06.2021

**Sd/-
D.Venu
MOOCs Coordinator**

**Sd/-
Dr. B. Rama Devi
Head of the Department**

**Sd/-
Dr.V. Rajagopal
Dean, Academic Affairs**