KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL

HONORS IN DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING IN HEIE

HONOR CURRICULUM

EQUIVALENT MOOCs – ODD SEMESTER, JULY-DEC 2022, **AY 2022-23**

-	HONOURS ELECTIVE COURSES	HONOURS ELECTIVE COURSES								
	Course code & Course name	SWAYAM-NPTEL			COURSERA/ UDEMY			SPOKEN TUTORIAL - IITB		
		Course Name	Credits	Course Dates*	Course Name	C	Course Dates	Course Name	C	Course Dates
1	Advanced Sensors and Actuators U18HCI1001	-	-	-	-	-	-	-	-	-
2	Mathematical Foundation for Machine Learning U18HCI1002	Introduction to Machine Learning (Tamil) Prof. Arun Rajkumar IITM 4Weeks	1	CCD Jul 25, 2022	-	-	CCD	-	-	CCD
				LDR Aug 1, 2022	-	-	LDR	-	-	LDR
3	Advanced IoT and its Applications U18HCI1003	-	-	-	-	-		-	-	-

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No.	Course	MOOC Details	Credits	Status / Date						
4	Artificial Intelligence Applications U18HCI1004	Artificial Intelligence Search Methods For Problem Solving Prof. Deepak Khemani IITM, 12 weeks	3	CCD Jul 25, 2022	-	-	-		-	-
				LDR Aug 1, 2022	-		-		-	-
5	Op-Amp Applications: Design and Implementation U18HCI1005	Analog Electronic Circuits Prof. Shouribrata chatterjee IITD 12 Weeks	3	CCD Jul 25, 2022	-	-	CCD	-	-	CCD
				LDR Aug 1, 2022	-	-	LDR	-	-	LDR
6	Advanced communication systems U18HCI1006	Modern Digital Communication Techniques Prof. Suvra Sekhar Das IITK 12 Weeks	3	CCD Jul 25, 2022	-		CCD			CCD
				LDR Aug 1, 2022	-	-	LDR	-	-	LDR
7	Data Science for Engineers U18HCI1007	Data Science for Engineers Prof. Ragunathan Rengasamy Prof. Shankar Narasimhan IITM 8 weeks	2	CCD Jul 25, 2022	-	-	CCD			CCD
				LDR Aug 1, 2022	-	-	LDR	-	-	LDR
8	Biomedical signal and Image processing U18HCI1008	Mathematical Aspects of Biomedical		CCD Jul 25, 2022	-	-	CCD	-	-	CCD

No.	Course	MOOC / Instructor	Credits	Date						
		Electronic System Design Prof. Chandramani Singh IISc 12 WEEKS		LDR Aug 1, 2022	-	-	LDR	-	-	LDR
9	Advanced Digital Signal Processing U18HCI1009	Image Signal Processing Prof. A. N. Rajagopalan IITM 12 Weeks	3	CCD Jul 25, 2022	-	-	CCD	-	-	CCD
				LDR Aug 1, 2022			LDR			LDR
10	Advanced Sensors and Actuators U18HCI1010	-	-	-	-	-	CCD	-	-	CCD
							LDR			LDR
11	Microelectronics U18HCI1011	-	-	-	-	-	-	-	-	-
12	Digital VLSI Testing U18HCI1012	VLSI Interconnects Prof. Sarang Pendharker IITKGP 8Weeks 8Weeks	2	CCD Jul 25, 2022	-	-	CCD	-		CCD
				LDR Aug 1, 2022			LDR			LDR
13	Software Defined Radio U18HCI1013		-	-	-	-	CCD			CCD
							LDR			LDR
14	mm Wave communication U18HCI1014	Signal Processing for mm Wave communication for 5G and beyond	3	CCD Jul 25, 2022	-	-	CCD			CCD
							LDR		-	LDR

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		Prof. Amit Kumar Dutta IITKGP 12WEEKS		LDR Aug 1, 2022	-	-	CCD		-	CCD
							LDR	-		LDR
15	Deep Learning for Computer Vision U18HCI1015	Deep Learning for Computer Vision Prof. Mitesh M. Khapra Prof. Sudarshan Iyengar IIT Ropar 12Weeks	3	CCD Jul 25, 2022	-		CCR LDR	-	-	CCD
				LDR Aug 1, 2022	-					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
   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

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*C: Credits   ;   **CCD**: **C**ourse **C**ommencement **D**ate;   **LDR**: **L**ast **D**ate of **R**egistration

S. No.	Honours Laboratory Courses	Laboratory Courses (any 2 courses) – TO BE TAKEN IN THE DEPARTMENT		
1		U18HEI1016	Advanced Instrumentation Lab	
2		U18HEI1017	Advanced Signal Processing Lab	1 Credit per LabCourse
3		U18HEI1018	Advanced VLSI Lab	
4		U18HEI1019	Embedded Applications Lab	

	Sd/–	Sd/–	
	Smt. R. Nirmala Devi	**Dr. M. Raghuram**	
Date: 22-06-2021	**MOOCs Coordinator**	**Head of the Department**	**Dean, Academic Affairs**

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