



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
HONOURS IN ELECTRONICS AND COMMUNICATION ENGINEERING (HEC)- 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		
			Course Name	C	Course Dates*	Course Name	C	Course Dates*	Course Name	C	Course Dates*
	HONOURS ELECTIVE COURSES <i>(any 6 to 9 courses to earn 18 credits)</i>										
1	U18HEC1001	Digital VLSI Testing	--	3	LDR: LDR:	--	-	CCD: :	--	--	CCD: LDR:
2	U18HEC1002	Coding Theory	--	2	CCD: LDR:	--	-	CCD: :	--	3	CCD: LDR:
3	U18HEC1003	Modern Digital Communication Techniques	--	3	CCD: LDR:	--	-	CCD: :	--	-	CCD: LDR:
4	U18HEC1004	Computer Vision and Image Processing-Fundamentals and Applications	--	3	CCD: LDR:	--	-	CCD: :	--	-	CCD: LDR:
5	U18HEC1005	Software Defined Radio	<i>Basics of software defined Radios and Practical Applications (1)</i>	1	CCD: 26 Jul 2021 LDR: 02 Aug 2021	--	-	CCD: :	--	-	CCD: LDR:

6	U18HEC1006	Millimeter Wave Technology	<i>Millimeter Wave Technology (2)</i>	2	CCD: 26 Jul 2021	--	-	CCD :	--	-	CCD:
					LDR: 02 Aug 2021			LDR :			LDR:
7	U18HEC1007	Multirate DSP	--	3	CCD:	--	-	CCD :	--	-	CCD:
					LDR:			LDR :			LDR:
8	U18HEC1008	Microwave Theory and Techniques	<i>Microwave Theory and Techniques (3)</i>	3	CCD: 26 Jul 2021	--	2	CCD :	--	-	CCD:
					LDR: 02 Aug 2021			LDR :			LDR:
9	U18HEC1009	Fabrication Techniques for MEMs-based Sensors : Clinical Perspective	<i>Fabrication Techniques for MEMs-based sensors : clinical perspective (3)</i>	3	CCD: 26 Jul 2021	-	-	CCD :	--	-	CCD:
					LDR: 02 Aug 2021			LDR :			LDR:
10	U18HEC1010	Principles of Signal Estimation for MIMO/ OFDM Wireless Communication	<i>Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications (3)</i>	3	CCD: 23 Aug 2021	--	-	CCD :	--	2	CCD: 20.07.2020
					LDR: 23 Aug 2021			LDR :			LDR: 27.07.2020
11	U18HEC1011	Deep Learning for Computer Vision	<i>Deep Learning for Computer Vision (3)</i>	3	CCD: 26 Jul 2021	--	-	CCD :	--	-	CCD:
					LDR: 02 Aug 2021			LDR :			LDR:
12	U18HEC1012	Artificial Intelligence	<i>Artificial Intelligence Search Methods For Problem Solving (3)</i>	3	CCD: 26 Jul 2021	--	-	CCD :	--	-	CCD:
					LDR: 02 Aug 2021			LDR :			LDR:

13	U18HEC1013	Industrial Internet of things	<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 :			LDR:
14	U18HEC1014	Robotics	--	3	CCD:	--	-	CCD :	--	-	CCD:
					LDR:			LDR :			LDR:
15	U18HEC1015	Data Science	<i>Python for Data Science (1) & Data Science for Engineers (2)</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
- 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

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

-	Honours Laboratory Courses	Laboratory Courses (any 2 courses) - TO BE TAKEN IN THE PARENT DEPARTMENT		
16		U18HEC1016	VLSI Design Laboratory	2 credits
17		U18HEC1017	Advanced Communication Laboratory	
18		U18HEC1018	Signal Processing and Applications Laboratory	
19		U18HEC1019	Antenna Design Laboratory	
			<i>Total Credits to be earned</i>	18+2

Date:07.06.2021

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

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

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