KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL

HONOURS IN Computer Science and ENGINEERING (**HCS**)

HONOURS CURRICULUM

EQUIVALENT MOOCs – ODD SEMESTER, JULY-DEC 2020, **AY 2020-21**

S.No	Course Code	Course Name	EQUIVALENT COURSES OFFERED BY								
	HONOURS ELECTIVE COURSES (***any 6 to 9 courses to earn 18 credits***)		**SWAYAM-NPTEL**			**COURSERA / UDEMY**			**SPOKEN TUTORIAL - IITB**		
			Course Name	C	Course Dates*	*Course Name*	C	Course Dates*	*Course Name*	C	Course Dates*
1	U18HCS001	Data Science	Scalable Data Science (8 weeks) noc20-cs61	2	CCD: Sep 14,2020 to Dec 18,2020 LDR: Sep 21,2020	--	-	CCD: LDR:	--	-	CCD: LDR:
2	U18HCS1002	Reinforcement Learning	Reinforcement Learning (12 weeks) noc20-cs74	3	CCD: Sep14,2020 to Dec 18,2020 LDR: Sep 21,2020	--	-	CCD: LDR:	--	-	CCD: LDR:
3	U18HCS1003	Applied Natural Language Processing	Applied Natural Language Processing (12 weeks) noc20-cs87	3	CCD: Sep 14,2020 to Dec 18,2020 LDR: Sep 21,2020	--	-	CCD: LDR:	--	-	CCD: LDR:
4	U18HCS1004	Deep Learning for Computer Vision	Deep learning (12 weeks) noc20-cs88	3	CCD: Sep14,2020 to Dec 18,2020 LDR:	--	-	CCD: LDR:	--	-	CCD: LDR:
5	U18HCS1005	Object Oriented System Development	Object Oriented System Development using UML,Java, and Patternso (12 weeks) noc20-cs84	3	CCD: Sep14,2020 to Dec 19,2020 LDR: Sep 21,2020	--	-	CCD: LDR:	--	-	CCD: LDR:
6	U18HCS1006	Embedded Systems Design	---	3	CCD: LDR:	--	-	CCD: LDR:	--	-	CCD: LDR:

7	U18HCS1007	Soft Computing	--	2	CCD: LDR:	--	-	CCD: LDR:	--	-	CCD: LDR:
8	U18HCS1008	Privacy and Security issues in Cloud and Social Media	--	2	CCD: LDR:	--	-	CCD: LDR:	--	-	CCD: LDR:
9	U18HCS1009	Computational Geometry	--	3	CCD: LDR:	--	-	CCD: LDR:	--	-	CCD: LDR:
10	U18HCS1010	Software Defined Networking	---	-	CCD: LDR:	UDEMY: Course on Introduction to Software Defined Networking and Open Flow (8-weeks)	2	CCD: Jul 27,2020(Student can join at any instance) LDR: -	--	-	CCD: LDR:
11	U18HCS1011	Google Cloud Computing Foundations	Google Cloud Computing Foundations noc20-cs96 (8-weeks)	2	CCD: Sep 14,2020 LDR: Sep 21, 2020	--	-	CCD: LDR:	--	-	CCD: LDR:
12	U18HCS1012	Parallel Programming in OpenMP	---	-	CCD: LDR:	--	-	CCD: LDR:	--	-	CCD: LDR:
13	U18HCS1013	Virtual Reality Technologies	--	-	CCD: LDR:	UDEMY: Introduction to Virtual Reality with Unity-Tool (8-weeks)	2	CCD: Jul 27,2020(Student can join at any instance) LDR: -	--	-	CCD: LDR:

14	U18HCS1014	BlockChain Applications	--	-	CCD: LDR:	UDEMY: BlockChain Developers with Ethereum (8-weeks)	2	CCD: Jul 27,2020(Student can join at any instance) LDR: -	--	-	CCD: LDR:
15	U18HCS1015	Apache Spark and Hadoop Technologies	--	-	CCD: LDR:	UDEMY: Big Data Hadoop and Spark with Scala (8-weeks)	2	CCD: Jul 27,2020(Student can join at any instance) LDR: -	--	-	CCD: 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**: **C**redits ; **CCD**: **C**ourse **C**ommencement **D**ate; **LDR**: **L**ast **D**ate of **R**egistration

-	**Honours Laboratory Courses**	**Laboratory Courses (any 2 courses) – TO BE TAKEN IN THE PARENT DEPARTMENT**		
16		U18HCS1016	Cloud Computing Laboratory	**2 credits**
17		U18HCS1017	Data Science with R-Tool Laboratory	
18		U18HCS1018	Machine Learning with Tensorflow Laboratory	
19		U18HCS1019	Image Processing with Python Laboratory	
			Total Credits to be earned	**18+2**

Date: **MOOCs Coordinator** **Head of the Department** **Dean, Academic Affairs**