KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
HONOURS CURRICULUM

HONOURS IN COMPUTER SCIENCE AND ENGINEERING (HCS)
HONOURS CURRICULUM

S.No	Course Type	Course Code	Course Name	Credits
-		**Elective courses (any 6 to 9 courses)**		
1	**Honours Elective Courses**	U18HCS1001	Data Science	18
2		U18HCS1002	Reinforcement Learning	
3		U18HCS1003	Applied Natural Language Processing	
4		U18HCS1004	Deep Learning for Computer Vision	
5		U18HCS1005	Object Oriented System Development	
6		U18HCS1006	Embedded Systems Design	
7		U18HCS1007	Soft Computing	
8		U18HCS1008	Privacy and Security issuesin Cloud and Social Media	
9		U18HCS1009	Computational Geometry	
10		U18HCS1010	Software Defined Networking	
11		U18HCS1011	Google Cloud Computing Foundations	
12		U18HCS1012	Parallel Programming in OpenMP	
13		U18HCS1013	Virtual Reality Technologies	
14		U18HCS1014	BlockChain applications	
15		U18HCS1015	Apache Spark and Hadoop Technologies	

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 courses listed under Honours curriculum
   B. 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**	U18HCS1016	Cloud Computing Laboratory	2
17		U18HCS1017	Data Science with R-Tool Laboratory	
18		U18HCS1018	Machine Learning with Tensorflow Laboratory	
19		U18HCS1019	Image Processing with Python Laboratory	
			Total Credits	**20**