



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
HONOURS IN COMPUTER SCIENCE AND ENGINEERING (HCS)
- HONOURS CURRICULUM

S.No	Course Type	Course Code	Course Name	Credits
-	Honours Elective Courses	Elective courses (any 4 to 5 courses)		
1		U24HCS1001	Programming, Data Structures and Algorithms using Python/Java	15-16
2		U24HCS1002	Introduction to Graph Algorithms	
3		U24HCS1003	Practical Cyber Security for Cyber Security Practitioners	
4		U24HCS1004	Introduction to Industry 4.0 and Industrial Internet of Things	
5		U24HCS1005	Design & Implementation of Human-Computer Interactive Interfaces	
6		U24HCS1006	Multi-Core Computer Architecture	
7		U24HCS1007	Applied Accelerated Artificial Intelligence	
8		U24HCS1008	Responsible & Safe AI Systems	
9		U24HCS1009	Blockchain and its Applications	
10		U24HCS1010	Data Analytics with Python	
11		U24HCS1011	Reinforcement Learning	
12		U24HCS1012	Deep Learning for Computer Vision	
13		U24HCS1013	Introduction to Quantum Computing: Quantum Algorithms	
<p>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 offer an alternative course(s) for the specific scenario, after verification of relevant documents.</p> <p>II. By the end of April of every academic year, the department in consultation with Dean-AA, shall</p> <p>A. notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the list of courses notified under Honours curriculum</p> <p>B. propose a new course(s) in the place of any listed course(s) in the Honour curriculum, in case no equivalent course is found in MOOCs</p>				
-	Honours Laboratory Courses	Laboratory Courses (any 2 courses)		
14		U24HCS1014	Data Science Lab	2
15		U24HCS1015	Artificial Neural Networks Lab	
16		U24HCS1016	MATLAB	
17	U24HCS1017	Cryptography and Network Security / Cyber Security Lab		
18	Honours Mini-project (optional)	U24HCS1018	Mini-project (optional)	2
Total Credits				18