



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

HONOURS IN ELECTRICAL & ELECTRONICS ENGINEERING (HEE)
- HONOURS CURRICULUM

S.No	Course Type	Course Code	Course Name	Credits
-	Honours Elective Courses	Elective courses (any 6 to 9 courses)		
1		U24HEE1001	Smart Grid	15-16
2		U24HEE1002	Line Commutated and PWM Rectifiers	
3		U24HEE1003	Power Systems Optimization	
4		U24HEE1004	Advances in UHV Transmission & Distribution	
5		U24HEE1005	Power System Stability	
6		U24HEE1006	Power Electronics Applications in Power Systems	
7		U24HEE1007	Power Quality	
8		U24HEE1008	Advanced Control Theory (Nonlinear/ Adaptive/Robust Control)	
9		U24HEE1009	Design of Electric Motor	
10		U24HEE1010	VLSI Design	
11		U24HEE1011	Industrial Automation and Drives/ Economic Operations and Control of Power Systems	
12		U24HEE1012	Design of Photovoltaic Systems	
13		U24HEE1013	Control of Electric Drives	
14		U24HEE1014	Electric and Hybrid Electric Vehicle/ Charging Infrastructure	
15	U24HEE1015	Artificial Intelligence/ Machine Learning/ Data Science/ Neural Network		
<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 Honours curriculum, in case no equivalent course is found in MOOCs</p>				
-	Honours Laboratory Courses	Laboratory Courses (any 2 courses)		
16		U24HEE1016	Power Converters Simulation Lab	2
17		U24HEE1017	Renewable Energy Systems Laboratory	
18		U24HEE1018	Power Systems Simulation Lab	
19	U24HEE1019	ECAD/ Electrical Engineering Drawing Lab		

20	Honours Mini- project (optional)	U24HEE1020	Mini-project (optional)	2
Total Credits				18