



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
HONOURS IN ELECTRONICS ENGINEERING (HEE)
HONOURS CURRICULUM
EQUIVALENT MOOCs - ODD SEMESTER, JULY-DEC 2025, AY 2025-26

The following are the list of Honours in Electrical & Electronics Engineering and their equivalent courses for ODD semester (July-Dec) academic year 2025-26.

HONOURS ELECTIVE COURSES (any 5 to 6 courses to earn 16 credits)			EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL			
S.No	Course Code	Course Name	Course Name, Duration & Course code	C	Course Dates*	Course enrollment link
1.	U18HEE1001	Smart Grid	NOT AVAILABLE THIS SEMESTER	--	-- --	--
2.	U18HEE1002	Power Converters	Line Commutated and PWM Rectifiers (12 weeks) noc25- ee151	3	CCD: July 21, 2025 to Oct 10, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_ee151/preview
3.	U18HEE1003	Power Systems Optimization	NOT AVAILABLE THIS SEMESTER	--	-- --	--
4.	U18HEE1004	Advances in Transmission & Distribution	Advances in UHV Transmission and Distribution (8 weeks) noc25-ee141	2	CCD: July 21, 2025 to Sep 12, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_ee141/preview
5.	U18HEE1005	Power System Stability	NOT AVAILABLE THIS SEMESTER	--	-- --	--
6.	U18HEE1006	Custom Power Devices	NOT AVAILABLE THIS SEMESTER	--	-- --	--
7.	U18HEE1007	Power Quality	NOT AVAILABLE THIS SEMESTER	--	-- --	--
8.	U18HEE1008	Advanced Control Theory	Linear System Theory (12 weeks) noc25-ee105	3	CCD: July 21, 2025 to Oct 10, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_ee105/preview
9.	U18HEE1009	Special Purpose Machines	NOT AVAILABLE THIS SEMESTER	--	-- --	--
10.	U18HEE1010	VLSI Design	NOT AVAILABLE THIS SEMESTER	--	--	--

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S.No	Course Code	Course Name	Course Name, Duration & Course code	C	Course Dates*	Course enrollment link
			SEMESTER		--	
11.	U18HEE1011	SCADA	NOT AVAILABLE THIS SEMESTER	--	--	--
12.	U18HEE1012	Design of Photovoltaic Systems	Design of photovoltaic systems (12 weeks) noc25-ee119	3	CCD: July 21, 2025 to Oct 10, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_ee119/preview
13.	U18HEE1013	Control of Electric Drives	NOT AVAILABLE THIS SEMESTER	--	--	--
14.	U18HEE1014	Energy Auditing	NOT AVAILABLE THIS SEMESTER	--	--	--
15.	U18HEE1015	Artificial Intelligence	Fundamentals Of Artificial Intelligence (12 weeks) noc25-ge55	3	CCD: July 21, 2025 to Oct 10, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_ge55/preview

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

Laboratory Courses and Mini Project- Honours Curriculum (any 2 courses) – TO BE TAKEN IN THE MECHANICAL ENGINEERING DEPARTMENT				
16	Laboratory Courses- Honours Curriculum	U18HEE1016	Power Converters Simulation Lab	2 Credits
17		U18HEE1017	Renewable Energy Systems Laboratory	
18		U18HEE1018	Power Systems Simulation Lab	
19		U18HEE1019	ECAD/Electrical Engineering Drawing Lab	
20	Honours Mini-project (Optional)	U18HEE1020	Mini-project (Optional)	2 Credits
Total Credits to be earned				16+2

Date: 15-07-2025
Dr. A. Rajasekhar
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Dr. K. Venumadhav
Dean, Academic Affairs