



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
HONOURS IN ELECTRONICS ENGINEERING (HEE)
HONOURS CURRICULUM

URR-24

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.	U24HEE1001	Smart Grid	NOT AVAILABLE THIS SEMESTER	--	-- --	--
2.	U24HEE1002	Line Commutated and PWM Rectifiers	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.	U24HEE1003	Power Systems Optimization	NOT AVAILABLE THIS SEMESTER	--	-- --	--
4.	U24HEE1004	Advances in UHV 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.	U24HEE1005	Power System Stability	NOT AVAILABLE THIS SEMESTER	--	-- --	--
6.	U24HEE1006	Power Electronics Applications in Power Systems	Power Electronics Applications in Power Systems (12 weeks) noc25-ee183	3	CCD: July 21, 2025 to Sep 12, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_ee183/preview
7.	U24HEE1007	Power Quality	NOT AVAILABLE THIS SEMESTER	--	-- --	--
8.	U24HEE1008	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

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S.No	Course Code	Course Name	Course Name, Duration & Course code	C	Course Dates*	Course enrollment link
9.	U24HEE1009	Design of Electric Motor	Design of Electric Motor (12 weeks) noc25-ee145	--	--	https://onlinecourses.nptel.ac.in/noc25_ee145/preview
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10.	U24HEE1010	VLSI Design	Analog VLSI Design (12 weeks) noc25-ee111	--	--	https://onlinecourses.nptel.ac.in/noc25_ee111/preview
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11.	U24HEE1011	Industrial Automation and Drives/ Economic Operations and Control of Power Systems	Economic Operations and Control of Power Systems (12 weeks) noc25-ee115	3	CCD: July 21, 2025 to Oct 10, 2025	https://onlinecourses.nptel.ac.in/noc25_ee115/preview
					LDR: July 28, 2025	
12.	U24HEE1012	Design of Photovoltaic Systems	Design of photovoltaic systems (12 weeks) noc25-ee119	3	CCD: July 21, 2025 to Oct 10, 2025	https://onlinecourses.nptel.ac.in/noc25_ee119/preview
					LDR: July 28, 2025	
13.	U24HEE1013	Control of Electric Drives	NOT AVAILABLE THIS SEMESTER	--	--	--
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14.	U24HEE1014	Electric and Hybrid Electric Vehicle/ Charging Infrastructure	Charging Infrastructure (12 weeks) noc25-ee134	3	CCD: July 21, 2025 to Oct 10, 2025	https://onlinecourses.nptel.ac.in/noc25_ee134/preview
					LDR: July 28, 2025	
15.	U24HEE1015	Artificial Intelligence/ Machine Learning/Data Science/Neural Network	Fundamentals Of Artificial Intelligence (12 weeks) noc25-ge55	3	CCD: July 21, 2025 to Oct 10, 2025	https://onlinecourses.nptel.ac.in/noc25_ge55/preview
					LDR: July 28, 2025	

*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	U24HEE1016	Power Converters Simulation Lab	2 Credits
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 Credits
Total Credits to be earned				16+2

Date: 15-07-2025

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