



**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL**  
**HONOURS IN MECHANICAL ENGINEERING (HME)**  
**HONOURS CURRICULUM-2**

**EQUIVALENT MOOCs - EVEN SEMESTER, JAN-APRIL 2025, AY 2024-25**

The following are the list of Honours courses in Mechanical Engineering and their equivalent courses for EVEN semester (Jan-April) academic year 2024-25.

HONOURS ELECTIVE COURSES (any 6 to 9 courses to earn 18 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.	U18HME1001	Artificial Intelligence	Artificial Intelligence: Knowledge Representation And Reasoning (12 weeks) noc25-cs07	3	CCD: Jan 20, 2025 to April 11, 2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs07/preview">https://onlinecourses.nptel.ac.in/noc25_cs07/preview</a>
2.	U18HME1002	Energy Conservation and Waste Heat Recovery	<b>NOT AVAILABLE THIS SEMESTER</b>	-	CCD: - LDR: -	-
3.	U18HME1003	Advanced Fluid Mechanics	Introduction to Fluid Mechanics (12 weeks) noc25-me41	3	CCD: Jan 20, 2025 to April 11, 2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_me41/preview">https://onlinecourses.nptel.ac.in/noc25_me41/preview</a>
4.	U18HME1004	Computational Fluid Dynamics	Computational Fluid Dynamics (12 weeks) noc25-ch18	3	CCD: Jan 20, 2025 to April 11, 2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ch18/preview">https://onlinecourses.nptel.ac.in/noc25_ch18/preview</a>
5.	U18HME1005	Design of Heat Exchangers	<b>NOT AVAILABLE THIS SEMESTER</b>	-	CCD:- LDR: -	-
6.	U18HME1006	Robotics	Robotics: Basics and Selected Advanced Concepts (12 weeks) noc25-me70	3	CCD: Jan 20, 2025 to April 11, 2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_me70/preview">https://onlinecourses.nptel.ac.in/noc25_me70/preview</a>
7.	U18HME1007	Stress Analysis	<b>NOT AVAILABLE THIS SEMESTER</b>	-	CCD:- LDR:-	-
8.	U18HME1008	MEMS and Nanotechnology	<b>NOT AVAILABLE THIS SEMESTER</b>	-	CCD: - LDR: -	-

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9.	U18HME1009	Mechanical Vibrations and Condition Monitoring	<b>NOT AVAILABLE THIS SEMESTER</b>	-	CCD: - LDR: -	-
10.	U18HME1010	Advanced Composite Materials	Mechanical Behaviour of Materials (Part - I) (12 weeks) noc25-mm21	3	CCD: Jan 20, 2025 to April 11, 2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_mm21/preview">https://onlinecourses.nptel.ac.in/noc25_mm21/preview</a>
11.	U18HME1011	Mechatronics	Mechatronics (8 weeks) noc25-me91	2	CCD: Feb 17, 2025 to April 11, 2025 LDR: Feb 17, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_me91/preview">https://onlinecourses.nptel.ac.in/noc25_me91/preview</a>
12.	U18HME1012	Advanced Manufacturing Systems	Advanced Machining Processes (12 weeks) noc25-me02	3	CCD: Jan 20, 2025 to April 11, 2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_me02/preview">https://onlinecourses.nptel.ac.in/noc25_me02/preview</a>
13.	U18HME1013	Work System Design	<b>NOT AVAILABLE THIS SEMESTER</b>	-	CCD:- LDR:-	-
14.	U18HME1014	Automation in Manufacturing	Computer Integrated Manufacturing (12 weeks) noc25-me11	3	CCD: Jan 20, 2025 to April 11, 2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_me11/preview">https://onlinecourses.nptel.ac.in/noc25_me11/preview</a>
15.	U18HME1015	Measurement Systems	Mechanical Measurement Systems (8 weeks) noc25-me52	2	CCD: Jan 20, 2025 to March 14, 2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_me52/preview">https://onlinecourses.nptel.ac.in/noc25_me52/preview</a>

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

Laboratory Courses- Honours curriculum (any 2 courses) - TO BE TAKEN IN THE MECHANICAL DEPARTMENT					
16	Laboratory Courses- Honours curriculum	U18HME1016	Computational Fluid Dynamics Laboratory		2 credits
17		U18HME1017	Simulation Laboratory		
18		U18HME1018	Advanced Manufacturing Laboratory		
<b>Total Credits to be earned</b>				18+2	

**Sri S. Anil Kumar & Sri V. Rakesh**  
MOOCs Coordinators, MED

Date: 14-12-2024

**Dr. P. Srikanth**  
Professor of ME & Head