

## KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL HONOURS IN MECHANICALENGINEERING (HME)- HONOURS CURRICULUM EQUIVALENT MOOCs - EVEN SEMESTER, JULY-DEC 2023, AY 2023-24

The following are the list of Honours in Mechanical Engineering and their equivalent courses for ODD semester (July-Dec) academic year 2023-24.

S. No	HONOURS ELECTIVE COURSES (any 6 to 9 courses to earn 18 credits)		EQUIVALENT COURSES OFFERED BY								
	(my site statistics to contract the creation)		SWAYAM-NPTEL			COURSERA/UDEMY			SPOKEN TUTORIAL - IITB		
	Course Code	ode Course Name	Course Name	С	Course Dates*	Course Name	С	Course Dates*	Course Name	С	Course Dates*
1	U18HME1001	Artificial Intelligence	Fundamentals of Artificial Intelligence		CCD: 24/07/2023	-	-	CCD:	-		CCD:
					LDR: 31/07/2023			LDR:		-	LDR:
	U18HME1002	Energy Conservation and Waste Heat Recovery	Energy Conservation and Waste Heat Recovery	3	CCD: 24/07/2023	-	-	CCD:	-		CCD:
2					LDR: 31/07/2023			LDR:		-	LDR:
3	U18HME1003	Advanced Fluid Mechanics	Fluid Mechanics	3	CCD: 24/07/2023	-		CCD:	-		CCD:
3					LDR: 31/07/2023			LDR:		1	LDR:
4	U18HME1004	Computational Fluid Dynamics	Computational fluid dynamics	3	CCD: 24/07/2023	-	-	CCD:	-	-	CCD:
4					LDR: 31/07/2023			LDR:			LDR:
	U18HME1005	Design of Heat Exchangers	Heat Exchangers: Fundamental and design analysis	3	CCD: 24/07/2023	-	-	CCD:			CCD:
5					LDR: 31/07/2023			LDR:		-	LDR:
6	U18HME1006	Robotics	Robotics	2	CCD: 24/07/2023	-	-	CCD:	-		CCD:
6					LDR: 31/07/2023			LDR:		-	LDR:
	U18HME1007	Stress Analysis	Solid Mechanics	3	CCD: 24/07/2023	-	-	CCD:	-		CCD:
7					LDR: 31/07/2023			LDR:		-	LDR:

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			SWAYAM-NPTEL			COURSERA/UDEMY			SPOKEN TUTORIAL - IITB		
	Course Code	Course Name	Course Name	С	Course Dates*	Course Name	C	Course Dates*	Course Name	С	Course Dates*
8	U18HME1008	MEMS and Nanotechnology	-	1	-	_	-	CCD:	_		CCD:
					-			LDR:			LDR:
9	U18HME1009	Mechanical Vibrations and Condition Monitoring	-	-	-	-	-	CCD:	-	-	CCD:
					-			LDR:			LDR:
	U18HME1010	Advanced Composite Materials	Mechanical Behavior of Polymers And Composites	3	CCD: 24/07/2023	-	-	CCD:	-		CCD:
10					LDR: 31/07/2023			LDR:		-	LDR:
	U18HME1011	Mechatronics	Design of Mechatronic systems	3	CCD: 24/07/2023	-	-	CCD:	-		CCD:
11					LDR: 31/07/2023			LDR:		-	LDR:
12	U18HME1012	Advanced Manufacturing Systems	Rapid Manufacturing	3	CCD: 24/07/2023	-	-	CCD:			CCD:
12					LDR: 31/07/2023			LDR:		-	LDR:
	U18HME1013	Work System Design	Work system design	3	CCD: 24/07/2023	-	-	CCD:	-		CCD:
13					LDR: 31/07/2023			LDR:		-	LDR:
1.1	U18HME1014	Automation in Manufacturing	Automation in manufacturing	3	CCD: 24/07/2023	-	-	CCD:	-		CCD:
14	U1011WIE1U14				LDR: 31/07/2023			LDR:		-	LDR:
15	U18HME1015	Measurement Systems	-	-	-	-		CCD: LDR:	-	-	CCD: LDR:

<sup>•</sup> 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 propose an alternative course(s) for the specific scenario, after verification of relevant documents.

<sup>\*</sup>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	U18HME1016	Computational Fluid Dynamics Laboratory							
17	Courses- Honours	U18HME1017	Simulation Laboratory	2 credits						
18	curriculum	U18HME1018	Advanced Manufacturing Laboratory							
Total Credits to be earned										

Sri S. Anil Kumar & Ms. P. Divya MOOCs Coordinators, MED

Date: 19-06-2023

Dr. K. Raja Narender Reddy Professor of ME & Head Dr. V. Rajagopal Dean, Academic Affairs