



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
HONOURS IN MECHANICAL ENGINEERING (HME)- HONOURS CURRICULUM
EQUIVALENT MOOCs - EVEN SEMESTER, JAN-JUNE 2023, AY 2022-23

The following are the list of Honours in Mechanical Engineering and their equivalent courses for even semester (January-June) academic year 2022-23.

S. No	HONOURS ELECTIVE COURSES (any 6 to 9 courses to earn 18 credits)		EQUIVALENT COURSES OFFERED BY								
	Course Code	Course Name	SWAYAM-NPTEL			COURSERA / UDEMY			SPOKEN TUTORIAL - IITB		
Course Name			C	Course Dates*	Course Name	C	Course Dates*	Course Name	C	Course Dates*	
1	U18HME1001	Artificial Intelligence	<i>An introduction to Artificial Intelligence</i>	3	CCD:23-01-2023 LDR:30-01-2023	-	-	CCD: LDR:	-	-	CCD: LDR:
2	U18HME1002	Energy Conservation and Waste Heat Recovery	<i>Waste to Energy Conversion</i>	2	CCD:23-01-2023 LDR:30-01-2023	-	-	CCD: LDR:	-	-	CCD: LDR:
3	U18HME1003	Advanced Fluid Mechanics	-	-	CCD LDR	-	-	CCD: LDR:	-	-	CCD: LDR:
4	U18HME1004	Computational Fluid Dynamics	<i>Computational fluid dynamics</i>	3	CCD:23-01-2023 LDR:30-01-2023	-	-	CCD: LDR:	-	-	CCD: LDR:
5	U18HME1005	Design of Heat Exchangers	-	-	CCD: LDR:	-	-	CCD: LDR:	-	-	CCD: LDR:
6	U18HME1006	Robotics	<i>Advanced robotics</i>	3	CCD:23-01-2023 LDR:30-01-2023	-	-	CCD: LDR:	-	-	CCD: LDR:
7	U18HME1007	Stress Analysis	-	-	CCD: LDR:	-	-	CCD: LDR:	-	-	CCD: LDR:
8	U18HME1008	MEMS and Nanotechnology	-	-	CCD: LDR:	-	-	CCD: LDR:	-	-	CCD: LDR:
9	U18HME1009		-	-	CCD:	-	-	CCD:	-	-	CCD:

		Mechanical Vibrations and Condition Monitoring			LDR:			LDR:			LDR:
10	U18HME1010	Advanced Composite Materials	<i>Mechanics of Fiber Reinforced Polymer Composite Structures</i>	3	CCD:23-01-2023	-	-	CCD:	-	-	CCD:
					LDR:30-01-2023			LDR:			LDR:
11	U18HME1011	Mechatronics	<i>Mechatronics</i>	2	CCD:20-02-2023	-	-	CCD:	-	-	CCD:
					LDR:20-02-2023			LDR:			LDR:
12	U18HME1012	Advanced Manufacturing Systems	-	-	CCD:	-	-	CCD:	-	-	CCD:
					LDR:			LDR:			LDR:
13	U18HME1013	Work System Design	-	-	CCD:	-	-	CCD:	-	-	CCD:
					LDR:			LDR:			LDR:
14	U18HME1014	Automation in Manufacturing	<i>Industrial Automation and Control</i>	3	CCD:23-01-2023	-	-	CCD:	-	-	CCD:
					LDR:30-01-2023			LDR:			LDR:
15	U18HME1015	Measurement Systems	<i>Mechanical Measurement Systems</i>	2	CCD:20-02-2023	-	-	CCD:	-	-	CCD:
					LDR:20-02-2023			LDR:			LDR:

- 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.

*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		
Total Credits to be earned					18+2

Sri S. Anil Kumar & Ms. P. Divya

Dr. K. Raja Narendra Reddy

Dr. V. Rajagopal

Date: 16-01-2023

MOOCs Coordinators

Head of the Department

Dean, Academic Affairs