



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
HONOURS IN MECHANICAL ENGINEERING (HME) - HONOURS CURRICULUM
EQUIVALENT MOOCs - ODD SEMESTER, JULY-DEC 2021, AY 2021-22

S. No	Course Code	Course Name	EQUIVALENT COURSES OFFERED BY								
			SWAYAM-NPTEL			COURSERA / UDEMY			SPOKEN TUTORIAL - IITB		
HONOURS ELECTIVE COURSES (any 6 to 9 courses to earn 18 credits)			Course Name	C	Course Dates*	Course Name	C	Course Dates*	Course Name	C	Course Dates*
1	U18HME1001	Artificial Intelligence	<i>Fundamentals of Artificial Intelligence</i>	3	CCD: 26-07-2021	--	-	CCD:	--	--	CCD:
					LDR: 02-08-2021			LDR:			LDR:
2	U18HME1002	Energy Conservation and Waste Heat Recovery	<i>Energy Conservation and Waste Heat Recovery</i>	3	CCD: 26-07-2021	--	-	CCD:	-	-	CCD:
					LDR: 02-08-2021			LDR:			LDR:
3	U18HME1003	Advanced Fluid Mechanics	<i>Fluid Mechanics</i>	3	CCD: 26-07-2021	--	-	CCD:	--	-	CCD:
					LDR: 02-08-2021			LDR:			LDR:
4	U18HME1004	Computational Fluid Dynamics	----	-	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:
5	U18HME1005	Design of Heat Exchangers	<i>Heat Exchangers: Fundamentals and Design Analysis</i>	3	CCD: 26-07-2021	--	-	CCD:	--	-	CCD:
					LDR: 02-08-2021			LDR:			LDR:
6	U18HME1006	Robotics	<i>Introduction to Robotics</i>	3	CCD: 26-07-2021	--	-	CCD:	--	-	CCD:
					LDR: 02-08-2021			LDR:			LDR:
7	U18HME1007	Stress Analysis	<i>Solid Mechanics</i>	3	CCD: 26-07-2021	--	-	CCD:	--	-	CCD:
					LDR: 02-08-2021			LDR:			LDR:
8	U18HME1008	MEMS and Nanotechnology	<i>Fundamentals of micro and nano fabrication</i>	3	CCD: 26-07-2021	--	-	CCD:	--	-	CCD:
					LDR: 02-08-2021			LDR:			LDR:

9	U18HME1009	Mechanical Vibrations and Condition Monitoring	<i>Introduction to Mechanical Vibration</i>	2	CCD: 26-07-2021	--	-	CCD:	--	-	CCD:
					LDR: 02-08-2021			LDR:			LDR:
10	U18HME1010	Advanced Composite Materials	<i>Introduction to Composites</i>	3	CCD: 26-07-2021	--	-	CCD:			CCD:
					LDR: 02-08-2021			LDR:			LDR:
11	U18HME1011	Mechatronics	---	-	CCD: ----	--	-	CCD:	--	-	CCD:
					LDR: ----			LDR:			LDR:
12	U18HME1012	Advanced Manufacturing Systems	<i>Mathematical Modeling of Manufacturing Processes</i>	3	CCD: 26-07-2021	--	-	CCD:	--	-	CCD:
					LDR: 02-08-2021			LDR:			LDR:
13	U18HME1013	Work System Design	<i>Work System Design</i>	3	CCD: 26-07-2021	--	-	CCD:	--	-	CCD:
					LDR: 02-08-2021			LDR:			LDR:
14	U18HME1014	Automation in Manufacturing	<i>Automation in Manufacturing</i>	3	CCD: 26.07.2021	--	-	CCD:	--	-	CCD:
					LDR: 02-08-2021			LDR:			LDR:
15	U18HME1015	Measurement Systems	----	-	CCD: -----	--	-	CCD:	--	-	CCD:
					LDR: -----			LDR:			LDR:

- I. 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.
- II. By the end of April of every academic year, the department in consultation with Dean-AA, shall
- A. notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the list of courses notified under Honours curriculum
 - B. propose a new course(s) in the place of any listed course(s) in the Honours curriculum, in case no equivalent course is found in MOOCs

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

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

Sd/-

Sri.S.Chandramouli & Ms.P.Divya
MOOCs Coordinator

Sd/-

Dr.K.Sridhar
Head of the Department

Dean, Academic Affairs

Date: 22.06.2021