



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
HONOURS IN MECHANICAL ENGINEERING (HME) - HONOURS CURRICULUM
EQUIVALENT MOOCs - ODD SEMESTER, JULY-DEC 2020, AY 2020-21

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: 14-09-2020 LDR: 21-09-2020	--	-	CCD: LDR:	--	--	CCD: LDR:
2	U18HME1002	Energy Conservation and Waste Heat Recovery	<i>Energy Conservation and Waste Heat Recovery</i>	3	CCD: 14-09-2020 LDR: 21-09-2020	--	-	CCD: LDR:	-	-	CCD: LDR:
3	U18HME1003	Advanced Fluid Mechanics	<i>Advanced Fluid Mechanics</i>	3	CCD: 14-09-2020 LDR: 21-09-2020	--	-	CCD: LDR:	--	-	CCD: LDR:
4	U18HME1004	Computational Fluid Dynamics	<i>Foundation of Computational Fluid Dynamics</i>	2	CCD: 14-09-2020 LDR: 21-09-2020	--	-	CCD: LDR:	--	-	CCD: LDR:
5	U18HME1005	Design of Heat Exchangers	<i>Heat Exchangers: Fundamentals and Design Analysis</i>	3	CCD: 14-09-2020 LDR: 21-09-2020	--	-	CCD: LDR:	--	-	CCD: LDR:
6	U18HME1006	Robotics	<i>Introduction to Robotics</i>	3	CCD: Next Sem LDR: Next Sem	--	-	CCD: LDR:	--	-	CCD: LDR:
7	U18HME1007	Stress Analysis	<i>Solid Mechanics</i>	3	CCD: 14-09-2020 LDR: 21-09-2020	--	-	CCD: LDR:	--	-	CCD: LDR:
8	U18HME1008	MEMS and Nanotechnology	<i>Nanotechnology, Science and Applications</i>	2	CCD: LDR:	<i>nano technology: makers course</i>	2	CCD: LDR:	--	-	CCD: LDR:

9	U18HME1009	Mechanical Vibrations and Condition Monitoring	<i>Introduction to Mechanical Vibration</i>	2	CCD: 14-09-2020 LDR: 21-09-2020	--	-	CCD: LDR:	--	-	CCD: LDR:
10	U18HME1010	Composite Materials	<i>Introduction to Composites</i>	3	CCD: 14-09-2020 LDR: 21-09-2020	--	-	CCD: LDR:	--	-	CCD: LDR:
11	U18HME1011	Mechatronics	<i>Mechatronics</i>	2	CCD: Next Sem LDR: Next Sem	--	-	CCD: LDR:	--	-	CCD: LDR:
12	U18HME1012	Advanced Manufacturing Systems	<i>Mathematical Modeling of Manufacturing Processes</i>	3	CCD: 14-09-2020 LDR: 21.09.2020	--	-	CCD: LDR:	--	-	CCD: LDR:
13	U18HME1013	Work System Design	<i>Work System Design</i>	3	CCD: 14.09.2020 LDR: 21.09.2020	--	-	CCD: LDR:	--	-	CCD: LDR:
14	U18HME1014	Automation in Manufacturing	<i>Automation in Manufacturing</i>	3	CCD: 14.09.2020 LDR: 21.09.2020	--	-	CCD: LDR:	--	-	CCD: LDR:
15	U18HME1015	Measurement Systems	<i>Mechanical Measurement Systems</i>	2	CCD: 14.09.2020 LDR: 21.09.2020	-	-	CCD: LDR:	-	-	CCD: 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	2 credits
17		U18HME1017	Simulation Laboratory	
18		U18HME1018	Advanced Manufacturing Laboratory	
			<i>Total Credits to be earned</i>	18+2

Date:

MOOCs Coordinator

Head of the Department

Dean, Academic Affairs