



**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL**  
**MINOR IN MECHANICAL ENGINEERING (MME) - MINOR 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		
MINOR COMPULSORY COURSES			Course Name	C	Course Dates*	Course Name	C	Course Dates*	Course Name	C	Course Dates*
1	U18MME1001	<b>Thermodynamics</b>	<i>Concepts of Thermodynamics</i>	3	CCD:14-09-2020 LDR: 21-09-2020	--	-	CCD: LDR:	--	--	CCD: LDR:
2	U18MME1002	<b>Mechanics of Solids</b>	<i>Solid mechanics</i>	3	CCD: 14-09-2020 LDR: 21-09-2020	--	-	CCD: -- LDR: --	--	-	CCD: -- LDR: --
3	U18MME1003	<b>Fundamentals of Manufacturing Processes</b>	<i>Fundamentals of Manufacturing Processes</i>	3	CCD: 14.09.2020 LDR: 21.09.2020	--	-	CCD: LDR:	--	-	CCD: LDR:
MINOR ELECTIVE COURSES											
4	U18MME1004	<b>Steam Power Engineering</b>	<i>Steam Power Engineering</i>	2	CCD: 14-09-2020 LDR: 21-09-2020	--	-	CCD: LDR:	--	-	CCD: LDR:
5	U18MME1005	<b>Fluid Mechanics and Machinery</b>	<i>Fluid Machines</i>	2	CCD: 14-09-2020 LDR: 21-09-2020	--	-	CCD: LDR:	--	-	CCD: LDR:
6	U18MME1006	<b>Heat Transfer</b>	<i>Fundamentals of Conduction and Radiation</i>	3	CCD: 14-09-2020 LDR:21-09-2020	--	-	CCD: LDR:	--	-	CCD: LDR:
7	U18MME1007	<b>IC Engines and Gas Turbines</b>	<i>IC Engines and Gas Turbines</i>	-	CCD: -- LDR: --	--	-	CCD: LDR:	--	-	CCD: LDR:
8	U18MME1008	<b>Refrigeration and Air Conditioning</b>	<i>Refrigeration and Air Conditioning</i>	2	CCD: 14-09-2020 LDR: 21-09-2020	--	-	CCD: LDR:	--	-	CCD: LDR:
9	U18MME1009	<b>Design of Machine Elements</b>	<i>Design of machine elements-I &amp;II</i>	3	CCD: LDR:	-	-	CCD: LDR:	--	-	CCD: LDR:

10	U18MME1010	<b>Kinematics of Machinery</b>	<i>Kinematics of Mechanisms and Machines</i>	3	CCD:	--	-	CCD:		-	CCD:
					LDR:			LDR:			LDR:
11	U18MME1011	<b>Dynamics of Machinery</b>	<i>Dynamics of Machines</i>	3	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:
12	U18MME1012	<b>Automobile Engineering</b>	<i>Fundamentals of Automotive systems</i>	3	CCD:	--	-	CCD:	--	-	CCD:
					LDR:			LDR:			LDR:
13	U18MME1013	<b>Finite Element Methods</b>	<i>Basics of Finite Element Analysis-I</i>	2	CCD: 14-09-2020	--	-	CCD:	--	-	CCD:
					LDR: 21-09-2020			LDR:			LDR:
14	U18MME1014	<b>Material Science and Metallurgy</b>	Basics of Materials Engineering	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
15	U18MME1015	<b>Machine Tool Technology</b>	Advanced Machining Processes	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
16	U18MME1016	<b>Engineering Metrology</b>	Engineering Metrology	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
17	U18MME1017	<b>Production Management</b>	Work System Design	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
18	U18MME1018	<b>Quality Management</b>	-		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

-	<b>Minor Laboratory Courses</b>	<b>Laboratory Courses (any 2 courses) - TO BE TAKEN IN THE MINOR DEPARTMENT</b>		
19		U18MME1019	<b>Thermal Engineering Laboratory</b>	<b>2 credits</b>
20		U18MME1020	<b>Design Engineering Laboratory</b>	
21		U18MME1021	<b>Production Engineering Lab</b>	
<i>Total Credits to be earned</i>				<b>18+2</b>

**Date:** **MOOCs Coordinator** **Head of the Department** **Dean, Academic Affairs**