



**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL**  
**MINOR IN MECHANICAL ENGINEERING (MME) - MINOR CURRICULUM**  
**EQUIVALENT MOOCs - ODD SEMESTER, JUL-DEC 2023, AY 2023-24**

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

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	Thermodynamics	<i>Engineering Thermodynamics</i>	3	CCD: 24/07/2023 LDR: 31/07/2023	-	-	CCD: LDR:	-	-	CCD: LDR:
2	U18MME1002	Mechanics of Solids	Solid Mechanics	3	CCD: 24/07/2023 LDR: 31/07/2023	-	-	CCD: LDR:	-	-	CCD: LDR:
3	U18MME1003	Fundamentals of Manufacturing Processes	<i>Manufacturing systems Technology I &amp; II</i>	3	CCD: 24/07/2023 LDR: 31/07/2023	-	-	CCD: LDR:	-	-	CCD: LDR:
MINOR ELECTIVE COURSES											
4	U18MME1004	Steam Power Engineering	<i>Steam Power Engineering</i>	2	CCD: 24/07/2023 LDR: 31/07/2023	-	-	CCD: LDR:	-	-	CCD: LDR:
5	U18MME1005	Fluid Mechanics and Machinery	<i>Fluid Mechanics</i>	3	CCD: 24/07/2023 LDR: 31/07/2023	-	-	CCD: LDR:	-	-	CCD: LDR:
6	U18MME1006	Heat Transfer	<i>Heat Transfer</i>	3	CCD: 24/07/2023 LDR: 31/07/2023	-	-	CCD: LDR:	-	-	CCD: LDR:
7	U18MME1007	IC Engines and Gas Turbines	<i>Applied Thermodynamics</i>	3	CCD: 24/07/2023 LDR: 31/07/2023	-	-	CCD: LDR:	-	-	CCD: LDR:
8	U18MME1008	Refrigeration and Air Conditioning	<i>Refrigeration and Air Conditioning</i>	2	CCD: 24/07/2023 LDR: 31/07/2023	-	-	CCD: LDR:	-	-	CCD: LDR:
9	U18MME1009	Design of Machine Elements	-	-	-	-	-	CCD: LDR:	-	-	CCD: LDR:
10	U18MME1010	Kinematics of Machinery	<i>Mechanism and Robot Kinematics</i>	2	CCD: 21/08/2023 LDR: 21/08/2023	-	-	CCD: LDR:	-	-	CCD: LDR:
11	U18MME1011	Dynamics of Machinery	-	-	-	-	-	CCD: LDR:	-	-	CCD: LDR:

12	U18MME1012	Automobile Engineering	-	-	-	-	-	CCD:	-	-	CCD:
								LDR:			LDR:
13	U18MME1013	Finite Element Methods	<i>Basics of Finite Element Analysis-I</i>	2	CCD: 24/07/2023	-	-	CCD:	-	-	CCD:
					LDR: 31/07/2023			LDR:			LDR:
14	U18MME1014	Material Science and Metallurgy	-	-	-	-	-	CCD:	-	-	CCD:
								LDR:			LDR:
15	U18MME1015	Machine Tool Technology	-	-	-	-	-	CCD:	-	-	CCD:
								LDR:			LDR:
16	U18MME1016	Engineering Metrology	<i>Engineering Metrology</i>	3	CCD: 24/07/2023	-	-	CCD:	-	-	CCD:
					LDR: 31/07/2023			LDR:			LDR:
17	U18MME1017	Production Management	-	-	-	-	-	CCD:	-	-	CCD:
								LDR:			LDR:
18	U18MME1018	Quality Management	-	-	-	-	-	CCD:	-	-	CCD:
								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

-	<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>

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

Dr. K. Raja Narendra Reddy  
Professor of ME & Head

Dr. V. Rajagopal  
Dean, Academic Affairs

Date: 19-06-2023