

**HONOURS IN MECHANICAL ENGINEERING (HME)
HONOURS CURRICULUM**

S.No	Course Type	Course Code	Course Name	Credits	
-	Honours Elective Courses	Elective courses (any 6 to 9 courses)			18
1		U18HME1001	Artificial Intelligence		
2		U18HME1002	Energy Conservation and Waste Heat Recovery		
3		U18HME1003	Advanced Fluid Mechanics		
4		U18HME1004	Computational Fluid Dynamics		
5		U18HME1005	Design of Heat Exchangers		
6		U18HME1006	Robotics		
7		U18HME1007	Stress Analysis		
8		U18HME1008	MEMS and Nanotechnology		
9		U18HME1009	Mechanical Vibrations and Condition Monitoring		
10		U18HME1010	Composite Materials		
11		U18HME1011	Mechatronics		
12		U18HME1012	Advanced Manufacturing Systems		
13		U18HME1013	Work System Design		
14		U18HME1014	Automation in Manufacturing		
15	U18HME1015	Measurement Systems			
<p>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.</p> <p>II. By the end of April of every academic year, the department in consultation with Dean-AA, shall</p> <ol style="list-style-type: none"> 1. notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the courses listed under Honours curriculum 2. propose a new course(s) in the place of any course(s) listed under Honours curriculum, in case no equivalent course is found in MOOCs 					
-	Honours Laboratory Courses	Laboratory Courses (any 2 courses)			2
16		U18HME1016	Computational Fluid Dynamics Laboratory		
17		U18HME1017	Simulation Laboratory		
18		U18HME1018	Advanced Manufacturing Laboratory		
Total Credits				20	