

Semester-I Credits-32

Sr. No	Course Name	L-T-P-C	Objective of the course	Course Category
1.	Advanced Solid Mechanics OR Advanced Mechanisms and Dynamics of Mechanical Systems	3-0-0-6	To introduce and orient students to the concepts of forces, stresses, deflections in mechanical systems OR To introduce and orient students to the advanced mechanisms & dynamics	PC
2.	Advanced Fluid Mechanics and Heat Transfer	3-0-0-6	To introduce students to the advanced topics in the fluid thermal	PC
3.	Additive and Forming Manufacturing Processes	3-0-0-6	To introduce mathematical concepts, forming and additive manuf., trends and case studies regarding industry 4.0	PC
4.	A course from “Engineering and Applied Mathematics” basket	Min 6 credits	To make the mathematical foundations	PE
5.	A course from “Programming and Scientific Computing” basket	Min 5 credits	To introduce students’ programming, analysis tools and software, Operating systems, R and Python programming, etc.	PE
6.	Research Practicum (Seminar)	0-0-3-3	To introduce students to literature review, report preparations and seminar presentation to a large audience as seminar on research topics in Mechanical Engineering	IC