

Year & Sem: E1S1	Course Code:	Course Name: Advanced Engg. Thermodynamics	No. of Credits: 4	L	T&PS	P
				2	2	0
Review of laws of thermodynamics. Energy concepts for closed and open systems. Minimization of entropy generation principle and thermodynamic optimization. Exergy analysis of thermal systems and plants. Thermo-economic applications. Phase transition. Equations of state. Multi-component and multiphase system. Reactive systems. Kinetic theory of gases. Distribution of molecular velocities and energy, transport properties of gases. Principles of irreversible thermodynamics and applications References/Text Books: 1. 2.						