$ME\ 311-Thermodynamics\ I$

Pre-requisite: Math 211; Phys 111

 $\begin{tabular}{ll} Text: & \textbf{Thermodynamics} - \textbf{An Engineering Approach} \ by \ Y. \ A. \ Cengel \ and \ M. \ A. \ Boles; 5^{th} \ Edition; \ McGraw-Hill, 2006 \end{tabular}$

Week	Content & Chapter(s)	HW Assignments
1	Introduction and Basic Concepts (Chap 1); Energy Analysis (Chap 2)	Assignment 1
2	Properties of Pure Substance & Phase Diagram (Chap 3)	(8 problems)
3	Solution of HW-1; Equation of State of Pure Substance (Chap 3)	Assignment 2
4	Energy Analysis of Closed System – Part I (Chap 4)	(8 problems)
5	Solution of HW-2; Quiz 1	-
6	Solution of Quiz-1; Energy Analysis of Closed System – Part II (Chap 4)	Assignment 3
7	Energy Analysis of Open System – Part I (Chap 5)	(8 problems)
8	Solution of HW-3; Energy Analysis of Open System – Part II (Chap 5)	Assignment 4
9	Energy Analysis of Open System – Part III (Chap 5)	(8 problems)
10	Solution of HW-4; Quiz 2	=
11	Solution of Quiz-2; Entropy (Chap 7)	Assignment 5
12	Second-Law of Thermodynamics (Chap 6)	(8 problems)
13	Solution of HW-5; Exergy (Chap 8)	Assignment 6
		(4 problems)
14	Solution of HW-6; Course Review	-