

Recommended Text: Coulson and Richardson, Vol. 1, 3rd or 4th ed.; Incropera & DeWitt

Reference & problems: Holman; McCabe, Smith & Harriott; BSL

Mo 11:30

Classes will be interactive; your participation is essential.

Th 10:30, 11:30

Self study is a must. You should read and solve problems yourself.

F 11:30 Tutorials

Exams: Closed Book, some formulae will be given.

Sr.No	Week	Day	Start Date	Topic & Assignment	C&R 3rd ed.	Remarks
1.	1	Th	4-Jan-01	Overview of ChE; Place of HT in ChE; $Q=UAT$	7.1	
2.	2	Mo	8-Jan-01	Conduction; LMTD; Internal Heat Source; Unsteady state HT	7.2; 7.3.1; 7.3.2; 7.3.3; 7.3.5	
3.	3	Mo	15-Jan-01	Convection: Basic Laws	7.4.1; 7.4.2	
4.	4	Mo	22-Jan-01	Convection; HT inside tubes	7.4.2; 7.4.3	
5.	5	Mo	29-Jan-01	Intro to Heat Exchangers; Forced convection outside tubes	7.9.1; 7.4.4	
6.	6	Mo	5-Feb-01	HT to Spheres; Non-circular pipes; Natural Convection	7.4.5; 7.4.6; 7.4.7	
7.	7	Mo	12-Feb-01	HT equipment; HT in coils and CSTRs	7.9.2; 7.8; 7.8.1; 7.8.2; 7.8.3	
8.	8	Mo	19-Feb-01	Mid Sem Exams	upto but not inc. radiation	
9.	9	Mo	26-Feb-01	Radiation: basic laws	7.5 (prelim. part); 7.5.1; 7.5.2; 7.5.3	
10.	10	Mo	5-Mar-01	Radiation: view factors; through fluids; network theory	7.5.4; 7.5.5	
11.	11	Mo	12-Mar-01	HT with phase change: condensation	7.6 (prelim.part); 7.6.1; 7.6.2; 7.6.3	
12.	12	Mo	19-Mar-01	Condensation	7.6.4; 7.6.5; 7.6.6; 7.6.7	
13.	13	Mo	26-Mar-01	Boiling: pool	7.7 (prelim.part); 7.7.1; 7.7.2	Mo holiday
14.	14	Mo	2-Apr-01	Boiling: flow; kettles and reboilers	7.7.3; 7.7.4; 7.7.5	
15.	15	Mo	9-Apr-01	Insulation and lagging; HT to liq. metals	7.13; 7.13.1; 7.12	
16.	16	Mo	16-Apr-01	Make-up; Discussion and review		
17.	17	Mo	23-Apr-01	End Sem Exams		
18.	18	Mo	30-Apr-01	End Sem Exams		