

**Term-092**

**Dr. S. U. Rahman**

**ChE-304 Schedule of Lectures and Homeworks**

Lec #	Date	Day	Topic	Home Work	Quiz
1	21-Feb	U	Introduction+Intro to Molecular Diffusion		
2	23-Feb	T	Concentration, Velocities and Fluxes		
3	28-Feb	U	Ficks Law (Molecular Diffusion + Bulk Motion)		
4	02-Mar	T	Diffusivities (Gas)+ Example 24.2, 24.3, 24.4+Diffusivities (Liquid + Solids)+ 24.5 + 24.6		
5	07-Mar	U	Example 24.2, 24.3, and 24.4 +Quiz1	HW1: 24.4, 24.5, 24.8, 24.10	Q1: Fundamentals
6	09-Mar	T	Differential Equation of Mass Transfer + Boundary Conditions		
7	14-Mar	U	Steps of solving equations (Hand out)+Example 25.1, 25.2,25.3 + Problem 25.8	HW2: 25.6, 25.7, 25.10	
8	16-Mar	T	Section 26.1+Pseudo Steady State Analysis + Example 26.2		Q2: 25.12
9	21-Mar	U	Equimolar Counter Diffusion+Section 26.2: Burning C particle	HW3: 26.4, 26.7, 26.15	
10	23-Mar	T	Homogeneous Chem Rxn		
11	28-Mar	U	Solved and unsolved examples		
12	30-Mar	T	Simultaneous Momentum + Mass Transfer+Q3	HW4: 26.20, 26.27 26.30	Q3: Give a new problem
13	04-Apr	U	Unsteady state diffusion: Sec. 27.2		
14	06-Apr	T	Unsteady state diffusion:Sec. 27.3 + Example 27.1		
15	11-Apr	U	Unsteady state diffusion: Sec. 27.4 +Example 27.3	HW5: 27.4, 27.6, 27.18, 27.21	
16	13-Apr	T	Q4		Q4: 27.23
	18-Apr	U			
	20-Apr	T			
17	25-Apr	U	Convective Mass Transfer : Concept + Different ways of obtaining k+ Sec. 28.2		
18	27-Apr	T	Exact Method+Approximate Method		
19	02-May	U	Approximate Method , Analogies		
20	04-May	T	Example 28.4, 28.5, 28.8	Hw #6: 28.10, 28.18, 28.22, 28.27	
21	09-May	U	Mass Transfer between phases		
22	11-May	T	Mass Transfer between phases	HW#7	
23	16-May	U	Mass Transfer Correlations		
24	18-May	T	Mass Transfer Correlations + Example 30.3, 30.5		
25	23-May	U	Example 30.6, 30.7 + Quiz 5	HW #8: 30.9, 30.17, 30.18, 30.22	Q5: On modelling
26	25-May	T	Mass Transfer Equipment		
27	30-May	U	Mass Transfer Equipment		
28	01-Jun	T	Mass Transfer Equipment	HW#9	
29	06-Jun	U	Mass Transfer Equipment		
30	08-Jun	T	Revision		

**First Exam: 12 April 2010**