DATA STRUCTURES AND ALGORITHMS (COMP SCI 2C03), FALL 2021
PROF. NEERJA MHASKAR

Week	Lecture Date	Chapter sections	Tutorial Material	Assignments/ Exams
TENTATIVE COURSE SCHEDULE				
Fundamentals				
Week 1			Basic Introduction to JAVA	
	Tuesday, Sept. 7	Data Abstraction, Arrays, Linked List, (1.2)		
	Thursday, Sept. 9	Bags, Queues and Stacks (1.3),		
	Friday, Sept. 10	Analysis of Algorithms (1.4)		
Week 2			Chapter 1	
	Tuesday, Sept. 14	Analysis of Algorithms (1.4)		
	Thursday, Sept. 16	Case Study: Union-find (1.5)		Post Assignment 1
	Friday, Sept. 17	Case Study: Union-find (1.5)		
Sorting				
Week 3			Chapter 1, 2	
	Tuesday, Sept. 21	Elementary Sorts (2.1)		
	Thursday, Sept. 23	Elementary Sorts (2.1), Mergesort (2.2)		
	Friday, Sept. 24	Mergesort (2.2)		
Week 4			Chapter 2	
	Tuesday, Sept. 28	Quicksort (2.3)		
	Thursday, Sept. 30	Priority Queues (2.4)		Assignment 1 Due
	Friday, Oct. 1	Applications (2.5)		
Searching				
Week 5			Chapter 2, 3	
	Tuesday, Oct. 5	Symbol Tables (3.1)		Assignment 2 Post
	Thursday, Oct. 7	Binary Search Trees (3.2)		
	Friday, Oct. 8	Binary Search Trees (3.2), 2-3 trees (3.3)		

DATA STRUCTURES AND ALGORITHMS (COMP SCI 2C03), FALL 2021
PROF. NEERJA MHASKAR

Reading Week – Oct. 11 - 17				
Week 6			Chapter 3	
	Tuesday, Oct. 19	2-3 trees (3.3)		
	Thursday, Oct. 21	Red-black trees (3.4)		
	Friday, Oct. 22	Red-black trees (3.4)		
Week 7			Chapter 3	Assignment 2 Due on Sunday
	Tuesday, Oct. 26	Hash Table (3.5)		
	Thursday, Oct. 28			Mid-Term
	Friday, Oct. 29	Hash Table (3.5)		
Graphs				
Week 8			Chapter 3, 4	Assignment 3 Post
	Tuesday, Nov. 2	Undirected Graphs (4.1)		
	Thursday, Nov. 4	Undirected Graphs (4.1)		
	Friday, Nov. 5	Directed Graphs (4.2)		
Week 9			Chapter 4	
	Tuesday, Nov. 9	ted Graphs (4.2)		
	Thursday, Nov. 11	Minimum spanning Trees (4.3)		
	Friday, Nov. 12	Minimum spanning Trees (4.3)		
Strings				
Week 10			Chapter 4	Assignment 3 Due
	Tuesday, Nov. 16	Shortest path (4.4)		
	Thursday, Nov. 18	Shortest path (4.4)		
	Friday, Nov. 19	Tries (5.2), Data Compression (5.5)		Assignment 4 Post
Week 11			Chapter 5	
	Tuesday, Nov. 23	Data Compression (5.5)		
	Thursday, Nov. 25	Data Compression (5.5)		
	Friday, Nov. 26	String Sorts (5.1)		

DATA STRUCTURES AND ALGORITHMS (COMP SCI 2C03), FALL 2021
PROF. NEERJA MHASKAR

Week 12			Chapter 5	
	Tuesday, Nov. 30	String Sorts (5.1)		
	Thursday, Dec. 2	Substring search (5.3)		Assignment 4 Due
	Friday, Dec. 3	Substring search (5.3)		
Week 13			Chapter 5	
	Tuesday, Dec. 7	Questions and Final Exam Review		