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

TENTATIVE COURSE SCHEDULE				
Week	Date	Chapter sections	Tutorials	Assignments/ Exams
Fundamentals				
Week 1	Monday, Jan 11		No Tutorial	
	Wednesday, Jan 13	Data Abstraction, Bags, Queues and Stacks (1.2, 1.3)		
	Friday, Jan 15	Analysis of Algorithms (1.4)		
Week 2	Monday, Jan 18		Chapter 1	
	Wednesday, Jan 20	Analysis of Algorithms (1.4), Case Study: Union-find (1.5)		Post Assignment 1
	Friday, Jan 22nd	Case Study: Union-find (1.5)		
Sorting				
Week 3	Monday, Jan 25th		Chapter 1, 2	
	Wednesday, Jan 27	Elementary Sorts, Mergesort, (2.1, 2.2)		
	Friday, Jan 29th	Quicksort (2.3)		
Week 4	Monday, Feb 1		Chapter 2	
	Wednesday, Feb 3	Quicksort, Priority Queues (2.3, 2.4)		
	Friday, Feb 5	Applications (2.5)		
Searching				
Week 5	Monday, Feb 8		Chapter 2, Mid-Term Review	
	Wednesday, Feb 10			**Mid – Term 1**
	Friday, Feb 12	Symbol Tables (3.1)		Assignment 1 due on Sunday Feb 14th 2020
Reading Week – Feb 15 - 21				
Week 6	Monday, Feb 22		Chapter 2, 3	Assignment 2 Post

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	Wednesday, Feb 24	Binary Search Trees, Balanced Search Trees (3.2, 3.3)		
	Friday, Feb 26	Balanced Search Trees, Hash Tables (3.3, 3.4)		
Week 7	Monday, March 1		Chapter 3	
	Wednesday, March 3	Hash Table, Applications (3.4, 3.5)		
	Friday, March 5	Applications (3.5)		
Graphs				
Week 8	Monday, March 8		Chapter 4	
	Wednesday, March 10	Undirected Graphs, Directed Graphs (4.1, 4.2)		
	Friday, March 12	Minimum spanning Trees (4.3)		
Week 9	Monday, March 15		Chapter 4, Mid-Term Review	Assignment – 2 Due
	Wednesday, March 17			**Mid – Term 2**
	Friday, March 19	Shortest Path (4.4)		
Strings				
Week 10	Monday, March 22		Chapter 4	Assignment 3 Post
	Wednesday, March 24	Shortest path (4.4), String Sorts, Tries (5.1, 5.2)		
	Friday, March 26	Tries, Substring search (5.2, 5.3)		
Week 11	Monday, March 29		Chapter 5	
	Wednesday, March 31	Substring search (5.3)		
	Friday, April 2	Regular Expressions (5.4),		
Week 12	Monday, April 5		Chapter 5	

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	Wednesday, April 7	Regular Expression, Data Compression (5.4, 5.5)		
	Friday, April 9	Data Compression (5.5)		
Week 13	Monday, April 12		Chapter 5	Assignment 3 Due
	Wednesday, April 14	Questions and Final Exam Review		