BLG335E - Analysis of Algorithms I - 23/24 Fall - Course Plan (CRN: 12167)

03.10.2023	Week 1	Ch1. Introduction		
10.10.2023	Week 2	Ch2. Getting Started, Ch3. Growth of Functions		Lab. 1
17.10.2023	Week 3	Ch4. Recurrences		Lab. 2
24.10.2023	Week 4	Ch5. Probabilistic Analysis and Randomized Algorithms		Lab. 3
31.10.2023	Week 5	Ch7. Quicksort	Project 1 Announcement	Lab. 4
07.11.2023	Week 6	Ch8. Sorting in Linear Time, Ch9. Medians and Order Statistics		Lab. 5
14.11.2023	Week 7	**Midterm**		
21.11.2023	Week 8	Ch6. Heapsort	Project 2 Annoucement	Lab. 6
28.11.2023	Week 9	Ch10. Elementary Data Structures (Review), Ch11. Hash Tables		Lab. 7
05.12.2023	Week 10	Ch12. Binary Search Trees (Review), Ch13. Red-Black Trees, (reading material: 2-3 Trees, 2-3-4 Trees)		Lab. 8
12.12.2023	Week 11	Ch14. Augmenting Data Structures	Project 3 Announcement	Lab. 9
19.12.2023	Week 12	Ch17. Amortized Analysis		Lab. 10
26.12.2023	Week 13	Ch18. B Trees, [Briefly] Ch19. Binomial Heaps, Ch20. Fibonacci Heaps		Lab. 11
02.01.2024	Week 14	Review		Lab. 12
08.01.2024	21.01.2024	**FINALS**		

VF Conditions:	HW1 + HW2 + Midterm = 15/50	**T.A:**	
Evaluation Criteria:	HW 30%, Midterm 30%, Final 40%	Meral Korkmaz Kuyucu	korkmazmer@itu.edu.tr
Reference Books:	CLRS: Introduction to Algorithms by Cormen, Leiserson, Rivest, and Stein	Erhan Biçer	bicer21@itu.edu.tr
	"Algorithm Design" by Kleinberg and Tardos	Mehmet Selahaddin Şentop	sentop22@itu.edu.tr