

CS5234 : Combinatorial and Graph Algorithms

CS5234 (Semester 1, 2002/03)
Combinatorial and Graph Algorithms
Course Web: <http://www.comp.nus.edu.sg/~cs5234/2002/>
Thu, 10-12; @SR1
Leong Hon Wai, S16 06-01

Tentative Course Schedule (Revised: 3/9/2002)

Wk	Date	In / Out	Topic
0	25/7		Course Overview (0.5 hr)
1	1/8	O: HW1	Heaps & Fast SP Algorithms; Leftist Heaps
2	8/8		<i>"Polya's Theory of Counting"</i> Guest Lecture: Prof Jurg Nievergelt
3	15/8	I: HW1 O: HW2	Leftist Heaps & Fast MST Algorithms
4	22/8		*CLASS CANCELLED*
4'	28/8		Makeup: Fast MST Algorithms
5	29/8		LEDA; Amortization & Binomial Heaps
6	5/9	I: HW2 O: HW3, P1	F-Heaps & Fast Shortest Path Algorithms;
7	12/9 *Break*		Makeup: Bipartite Matching: Algorithms and Appls
8	19/9	O: P2	*CLASS CANCELLED*
9	26/9	I: HW3, P1 O: HW4	Case Study: BAP & Project 2
10	3/10		NP-Completeness & Cook's Theorem
11	10/10	I: HW4 O: HW5	Cook's Theorem & Reduction
12	17/10		Approx Algorithms and Local Search Simulated Annealing, Genetic Algorithm
13	24/10	I: HW5 I: P2	Knapsack Problem and Web Caching
14	31/10	Last lecture Last lecture	Case Study: BAP
15	7/11		* STUDY WEEK * STUDY WEEK *
16	16/11	Sat AM	Final Exam (OPEN BOOK)