

**CSE 625: Introduction to Automata and Formal Languages**  
**Winter 2009**  
**(Tentative Syllabus)**

Lectures	Chapter.Section	Materials	Assignments
Jan 5	1.5	Preliminaries, Languages	
Jan 7	1.5	Language Operations	Assign1
Jan 9	3.1	Regular languages and expressions	
Jan 12	3.1	More on RE and RL	
Jan 14	3.2, 3.3	Finite Automata	Assigns2
Jan 16	3.3, 3.4	Practice FA	
Jan 21	3.5	Set operations and FA	
Jan 23	4.1, 4.2	Nondeterministic FA	Assign3
Jan 26	4.3	Kleene's Theorem	
Jan 28	5.1, 5.2	N DFA = FA	
Jan 30	5.3	Pumping Lemma	Assign4
Feb 02		Regular Grammars	
Feb 04		Practice	
Feb 06		Midterm	
Feb 09	6.1	Context-free Grammars	Assign5
Feb 11	6.3	Set Operations on CFL	
Feb 13	6.4, 6.5	Ambiguity and CFG	
Feb 16	7.1,7.2	Pushdown Automata	Assign6
Feb 18	7.3	DPDA	
Feb 20		No Class	
Feb 23	7.4	PDA and CFG	Assign6
Feb 25	7.5	CFG and PDA	
Feb 27	7.6	Parsing	
Mar 02		Practice	
Mar 04	8.1	Pumping Lemma for CFL	Assign7
Mar 06	8.2, 8.3	Decision Problems on CFL	
Mar 09		Practice	
Mar 11	9.1	Turing Machines	
Mar 13	9.2, 9.3	More on Turing Machines	

Instructor: **Tamal K. Dey**, Room: **293 DL, 292-3563**.

Classes: **MWF 10:30 at DL 266**

Office hours: **MWF 2:30-3:00 pm or by appointment**

Grading Policy: **Assignments: 30% Midterm: 30% Final: 40%**

Required Text: **Introduction to Languages and the Theory of Computation, John C. Martin, WCB McGraw-Hill, 3rd Edition**

No late assignment is permitted.