



Course Weekly Outline

Course Name: Computational theory 2

Course Instructor	
E-mail	
Title	
Course Coordinator	
Course Objective	
Course Description	Grammar, Chomsky Normal Form, Greibach Normal Form, LMD & RMD, Ambiguity, Regular language, PDA, TM, PM .
Textbook	Daniel L. A. Cohen, Introduction of the theory of computation.
References	-Lewis, H.R. and Papadimitriou, Christos. 1998. Elements of the Theory of Computation. 2 nd Edition. Prentice-Hall.
Course Assessments	TermTests Laboratory Quizzes Project Final Exam
	Exam1=15% 10% - 60% Exam 2=15%
General Notes	



Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Regular Grammar (RG or FSG)		
2		Context Free Grammar (CFG)		
3		Grammar Generating, LMD & RMD, Parsing tree		
4		Ambiguity in CFG		
5		Chomsky Normal Form		
6		Greibach Normal Form		
7		Push Dawn Automata (PDA) for $a^n b^n$		
8		Push Dawn Automata (PDA) for $a^n b^n a^n$		
9		Tracing in PDA		
10		Turing Machine (TM)		
11		Insert, delete, replace TM subprogram		
12		Post Machine (PM)		
13		PM tracing		
14		Regular language		
15		Regular language		

Instructor Signature:

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