

BLG311E – Formal Languages and Automata

2012-2013 SPRING

	CRN: 20966
Instructors:	Asst.Prof.Dr.Tolga Ovatman
Office:	5309
Contact:	ovatman@itu.edu.tr www.ovatman.com
Assistant:	Mustafa Ersen Selda Uyanık

Textbook: J.E. Hopcroft, J.D. Ullman, *Introduction to Automata Theory, Languages and Computation – Second Edition*, Addison-Wesley, 2001

Week	Topic	RECITATIONS
14.02	Finite State Machines - Definitions and Models	
21.02	Finite State Machines - Algorithmic State Machines	HOMEWORK 1
28.02	Finite State Machines - State reduction and state equivalency	
07.03	Mathematical Foundations of Formal Languages - Inductive definitions, Alphabets and languages	HW2
14.03	Mathematical Foundations of Formal Languages - Relations and closures, Languages and Grammars	
21.03	MIDTERM I	
28.03	Mathematical Foundations of Formal Languages - Chomsky Hierarchy, Regular Expressions	HW 3
04.04	Automata - Deterministic Finite Automata	
11.04	Automata - Non-Deterministic Finite Automata	HW 4
18.04	Automata - NFA/DFA equivalency	
25.04	Push-down Automata	HW 5
02.05	MIDTERM II	
09.05	Push-down Automata and Context-free Languages	
16.05	Turing Machines	

Grading

- Homeworks will not be graded, however students should deliver at least 3 homeworks to pass
- Quizzes: 10%
- Midterm: 50%
- Final exam: 40%.
- To enter the final exam you must attend at least 70%, your midterm - term average should be over 35.
- At the end of the term, a total average below 40 will fail.

You can follow the course announcements, exam results and your attendance status on the Ninova system (<http://ninoa.itu.edu.tr/>).