

BLG311E - Formal Languages and Automata

2014-2015 FALL

Instructor: Asst. Prof. Dr. Ömer Sinan Saraç

Office: 5111

Contact: ssarac@itu.edu.tr

Assistants: Taceddin Ayar (ayart@itu.edu.tr), İsmail Bilgen (ibilgen@itu.edu.tr)

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

Topics

Introduction to Automata Theory & Formal Languages

Finite Automata

Regular Expressions

Regular Language Properties

Context Free Grammars and Languages

Pushdown Automata

Context-Free Language Properties

Turing Machines

Undecidability (hopefully)

Grading

- Homeworks will not be graded, however students should deliver at least 3 (out of 5) homeworks to pass
- Quizzes (3-4): 10%
- Midterms (2): 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://ninova.itu.edu.tr/>).