Theory of Computation

Course CSC-273: Introduction

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Your Lecturer

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Teaching Assistant: To Be Announced

Contact Hours

Lectures

Sundays	1120-1250	STR 501
Tuesdays	1120-1250	STR 501

Office Hours

Mondays	1120-1250	STR 1642
Wednesdays	1120-1250	STR 1642

Course Outline

1. Logic and Models of Proof (Recap)
2. Regular Languages and Finite State Automata
3. Context Free Grammars and Non-deterministic Pushdown Automata
4. Turing Machines and Effective Computability
5. Decidability and Encoding Turing Machines
6. Complexity and NP Completeness

Lecture notes available from:

http://www.geocities.com/syedatnsu/

Assessment

Mark Allocation (provisional)

Final Exam	25%
Mid-term1	20%
Mid-term2	20%
Assignment	15%
Quizzes	15%
Attendance	5%

Reading List

Main Textbook

- J.E.Hopcroft and J.D.Ullman: *Introduction to Automata Theory, Languages and Computation*, 2nd Edition.

Other Useful Text

- Lewis and Papadimintriou: *Elements of the Theory of Computation*, 2nd Edition