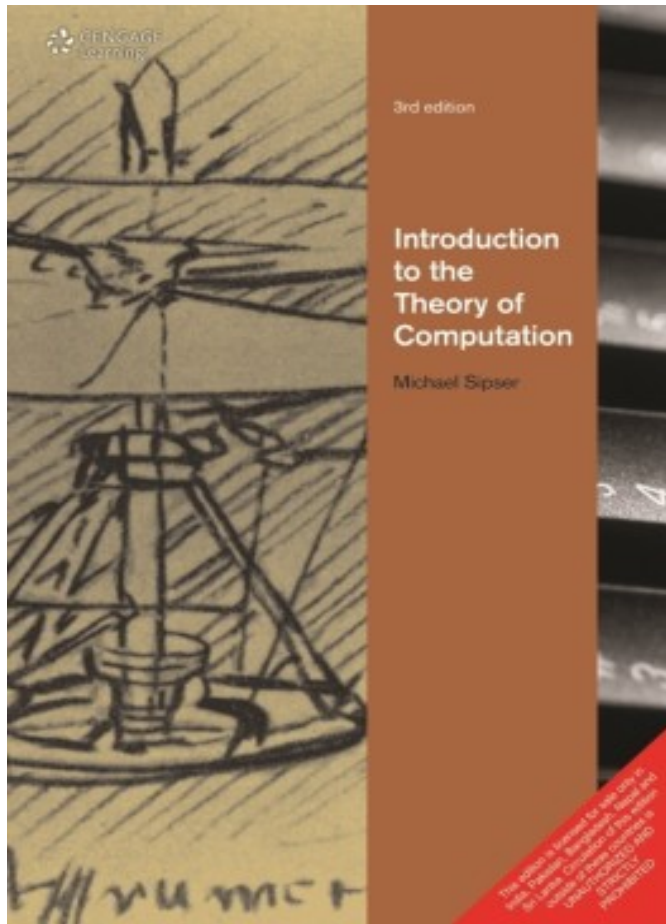


# CSE322 Theory of Computation (L1)



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website - TBA

Teaching assistants

Tharrma (PhD)

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Kushagra, Atishay, Ayushi (BTech)

550

3rd (Indian) edition, Rs ~~320~~ on Amazon

(Reference) Hopcroft/Motwani/Ullman:

Introduction to Automata Theory, Languages, and Computation

(e-Book has different exercises and is not freely available)

2016 stats:

- \* A/A- : 15% (70% and above)
- \* 3 late drops and 15% F

2017 stats:

- \* A : 20% (80% and above)
- \* 1 late drop and 10% F

2020 stats:

- \* A/A- : 17% (88% and above)
- \* Covid struck!

2022 stats:

- \* A/A- : Please study deep.
- \* (but stay well first)

2018 stats:

- \* A/A- : 17% (75% and above)
- \* 0 late drop and 22% F

2019 stats:

- \* A/A- : 11% (75% and above)
- \* 4 late drop and 13% F

2021 stats:

- \* A/A- : 16% (74% and above)
- \* almost no one took final exam

grading is relative according to my expectations.

15% from 5-6 Homeworks @ 4 questions:

- \* Two questions assigned per week
- \* Each question is worth 1.25 % (tentative)
- \* Lowest 30%+ HW scores dropped
- \* You will have 6 days to submit each question
- \* HWs can be done in groups of two, each writes 1

15% from Quizzes: Announced 12 hours before the event

- \* 8-10 quizzes, once every 2-3 lectures 2.5% / quiz

30% from Mid-sem exam

40% from End-sem exam

Grading is relative to levels set by me.

→ 33% of 40%

To pass, at least 33% in End-sem, 33% overall.

(unless there is a 4th wave)

"proof" of correctness



Pre-requisite: Discrete Maths

*Structures*

What you will learn after this course:

writing logically correct formal answers.

+ logical reasoning, mathematical rigour,

ability to coherently express,

establish proof of correctness

Weekly "tutorial" sessions conducted by TAs

Discussions/Announcements on Google Classroom

class code **mz5lgs2**

Lectures: Easy problems introducing concept and explain key insights

Tutorials: Easy & tough problems for you to understand key insights and be able to construct "formal" and "correct" answers, in an assisted manner

Homeworks: Moderate and tough problems for you "practice" solving challenging problems on your own

Exams: Mix of easy, moderate and tough problems

Homework collaboration policy:

HWs should be done in groups of two students (or, single student).

Students are free to collaborate or consult anyone or anything.

You have to cite each and every source (friend, parent, website, textbook, previous years solutions) that you consult. However answers must be written by yourself. We will grade your answer based on its correctness, originality of writing, quality (a long complicated solution gets less marks than a crisp one).

Institute policy for academic dishonesty will be strictly enforced.

(You cannot claim credit for a solution written, even if partly, by someone else.)

# Confession policy

Confession of "I don't know" (and nothing else) fetches 10% in any (sub) problem in any HW.

Any readable and meaningful attempt will get 20% or above.

If you do not understand your friend's solution, it may be better to write IDK than submitting a poor writeup.

If you understand what your friend wrote, it may be

**caveat**

better to not submit if you think you cannot explain

**emptor!**

it differently. Certain explanations are difficult to tweak.

## **Study Hacks Blog by Prof. Newport**

**Risabh's notes:**

**<http://cutt.ly/xIbP8tP>**

**Daniel's notes:**

**<http://cutt.ly/8IbAp61>**

