

Automata, Languages and Computation

Academic Year 2024-25

Course presentation & information

Master Degree in Computer Engineering
University of Padua
Lecturer : Giorgio Satta

<https://stem.elearning.unipd.it/course/view.php?id=6403>

Giorgio Satta

satta@dei.unipd.it

<http://www.dei.unipd.it/~satta/>

Class hours

Thurs 14:30–15:30, **under email appointment**

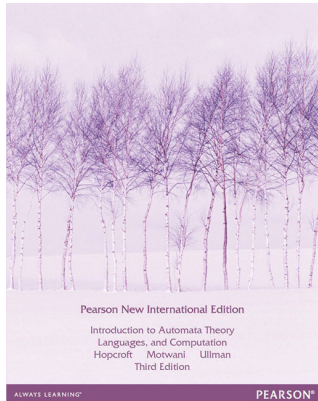
DEI/G, fourth floor

Zoom Meeting <https://unipd.zoom.us/j/99361872422>

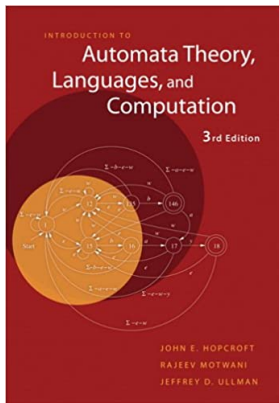
Schedule

	Wed	Thurs	Fri
08:30–09:30		room Ae	room Ae
09:30–10:30		room Ae	room Ae
10:30–11:30	room Ae		
11:30–12:30	room Ae		
12:30–13:30			
13:30–14:30			
14:30–15:30		office hours	

Introduction to Automata Theory, Languages, and Computation
John E. Hopcroft, Rajeev Motwani, Jeffrey D. Ullman
Third edition, Pearson New International Edition (Europe)



Introduction to Automata Theory, Languages, and Computation
John E. Hopcroft, Rajeev Motwani, Jeffrey D. Ullman
Third edition, Addison-Wesley Longman Publishing Co. (United States, same content)



Exercise collection with **solutions**, available through course home page



University of Padua
Department of Information Engineering
Master Degree in Computer Engineering

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**SELECTED EXERCISES
WITH SOLUTIONS**

Additional resources, **consultation only**

- Electronic forum for technical discussion
- Introduction to the Theory of Computation
Michael Sipser
Thomson Course Technology

Home assignments to be worked out **individually**

No use of solutions from previous academic years

No use of textbook/class notes during finals

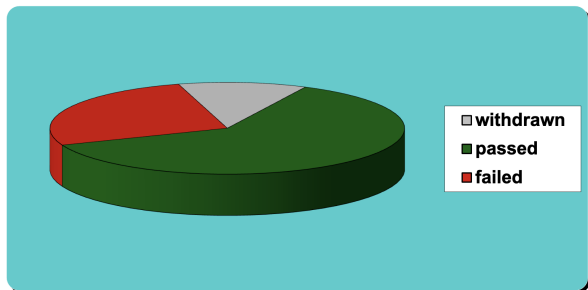
Content outline

Preliminaries	Chpt 1	02 hours
Regular languages	Chpts 2–4	24 hours
Context-free languages	Chpts 5–7	22 hours
Turing machines	Chpts 8–10	24 hours
		72 hours

Written test, no oral test

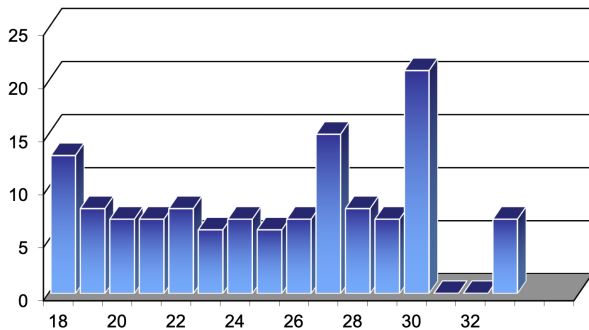
Public correction at the end of final test; students with strongly negative evaluation are kindly requested to withdraw their own test

Academic year 2023-24



Some statistics

Academic year 2023-24



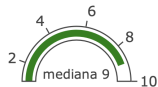
Academic year 2023-24

	w/d	subm	fail	pass	acpt
01/30/2024	11	78	19	59	76%
02/13/2024	11	56	22	34	61%
07/03/2024	04	31	09	22	71%
13/09/2024	00	31	09	22	71%

Academic year 2023-24



Satisfaction



Teaching



Course Organization