

# Automata, Languages and Computation

## Academic Year 2025-26

### Course presentation & information

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

<https://stem.elearning.unipd.it/course/view.php?id=13433>

## Giorgio Satta

satta@dei.unipd.it

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

## Class hours

Thurs 12:30–14:30, **under email appointment**

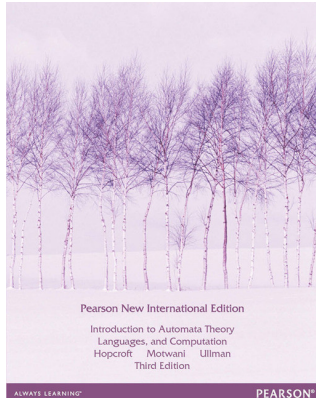
DEI/G, fourth floor

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

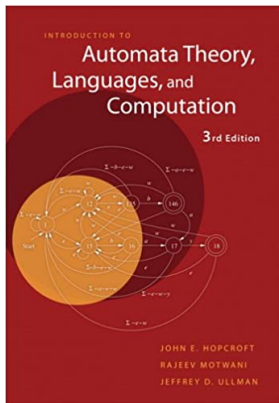
# Schedule

	<b>Wed</b>	<b>Thurs</b>	<b>Fri</b>
10:30–11:30	room Ae		room Ae
11:30–12:30	room Ae		room Ae
12:30–13:30		office hours	
13:30–14:30		office hours	
14:30–15:30		room Ke	
15:30–16:30		room Ke	

## 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



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

Automata, Languages and Computation

**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



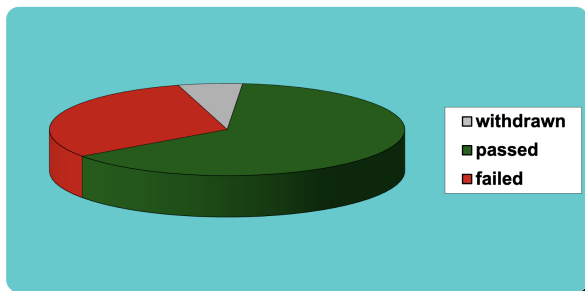
# Content outline

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
		<b>72 hours</b>

Written test, no oral test

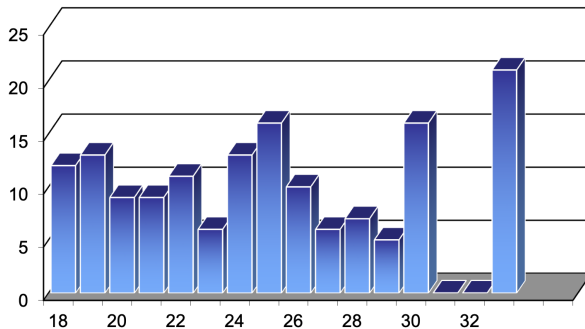
Public correction at the end of final test; students with strongly negative evaluation are kindly requested to withdraw their own test

Academic year 2024-25



# Some statistics

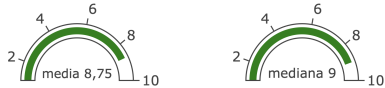
Academic year 2024-25



Academic year 2024-25

	<b>w/d</b>	<b>subm</b>	<b>fail</b>	<b>pass</b>	<b>acpt</b>
01/30/2024	07	94	29	65	69%
02/13/2024	05	78	28	50	64%
07/03/2024	01	28	08	20	71%
13/09/2024	01	26	08	18	69%

Academic year 2024-25



Satisfaction



Teaching



Course Organization