

# Introduction

Tecnologie e Servizi di Rete  
Computer Network Technologies and  
Services

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# Teachers

- **Prof. Alessio Sacco**

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- **Prof. Guido Marchetto**

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# Topics

- IPv4 network design
- IP Multicast
- IPv6 protocol and network design
- Cellular networks
- Ethernet local area network design
- Principles of dynamic routing
- Virtual Private Networks (VPN)
- SDN/NFV
- Content Delivery Networks
- MPLS protocol architecture
- Quality of service on IP networks
- Optical networks



# Schedule 2023-24

- Usually 6h or 4.5h per week
  - Exact schedule will be announced weekly
- Some slots for Labs, only in some specific weeks



# Labs

- Three lab experiences
  - IPv6 configuration
  - VPN configuration
  - MPLS configuration
- Virtual labs (Crownlabs)
  - Schedule to be defined
  - Duration: 3h timeslots, with the choice of two alternate dates for each lab



# Material

- Polito e-learning portal
  - Slides
  - Recorded lectures



# Exam

- 1-hour written exam, including 33 multiple-choice questions
  - Correct answer: 1 point
  - Wrong answer: -1/3 points
  - No answer: 0 points
  - Final mark rounded to nearest integer (25 and 1/3 -> 25; 25 and 2/3 -> 26)
- **Additional oral exam is not possible, so don't ask!**





# One more thing... Rules of Communication

- When you write to any of the Professors always state:
  - Your name and matricola number
  - The title of the course (each of us teaches multiple courses)
    - E.g., “I am in your Networks course” is not enough

This will speed up our reply!
- When you register for an exam and cannot attend: unregister or send an email
  - This will allow us to optimize the logistics and to avoid printing additional exam material
- Your exam mark is **final**:
  - Emails asking for:
    - a redress of your mark (e.g., “please add 1.6 points so I can pass, otherwise I lose my scholarship”)
    - an oral exam to increase the mark
    - an extra exam session
    - registration of an exam in a different session
    - ...

**will not be answered**

