Postgraduate Programme «Communication Networks and Systems Security»
The international environment of telecommunications and digital communications is changing radically
- fiber optic networks,
- optical-wireless networks
- 5G/6G networks

Plenty of Apps
- IoT, autonomous cars, online gaming, personal cloud services, remote health services, etc

Safety is essential
- in the fight against electronic crime,
- in the protection of intellectual property in the digital age,
- in the protection of personal data and ensuring the confidentiality of communications.
The School of Informatics, AUTh, since 2018-19 offers a Postgraduate Programme with the title: 

**Communication Networks & Systems Security**

**Objective:** specialization in Communication Networks and/or Systems Security, in the following areas:

- Core networks
- Access networks, wireless and optical networks
- Cloud technologies
- Photonic technology/ Optical switching
- New generation of components and systems
- Cryptography
- Security of wireless and optical networks
- Internet Security
- Security and privacy of information and systems
Duration of Studies - ECTS

➢ The duration of studies is defined as a minimum of 3 semesters for full-time postgraduate students.
   ➢ the time spent preparing the diploma thesis is also included.

➢ Part-time study is possible for working students.
   ➢ with a total duration of studies of six 6 semesters.

➢ 90 ECTS
Courses

Specialization: Communication Networks

**Semester A**
- Network Infrastructure - CC
- Optoelectronic Systems Technology - CC
- Distributed Processing in Grids and Clouds - E
- Advanced Topics on Networks - E
- Advanced Topics on Biological Nanonetworks - CC
- Internet of Things - E

**Semester B**
- Optical Networks: Architectures and Security Issues - CC
- Wireless Networks: Architectures and Security Issues - CC
- Advanced Topics on Optical Switching - CC
- Advanced Topics on Network Security - E
- Modelling, Simulation and Performance Evaluation on Parallel and Distributed Systems - E

**Semester C**
- Diploma Thesis
Courses

Specialization: Systems Security

Semester A
• Cryptography - CC
• Software and Computer Systems Security - CC
• Advanced Topics on Networks - E
• Distributed Processing in Grids and Clouds - E
• Network Infrastructure - E
• Network Vulnerability Control - CC

Semester B
• Optical Networks: Architectures and Security Issues - CC
• Wireless Networks: Architectures and Security Issues - CC
• Advanced Topics on Network Security - E
• Advanced Topics on Optical Switching - E
• Modelling, Simulation and Performance Evaluation on Parallel and Distributed Systems - E

Semester C
Diploma Thesis
**Academic Staff**

**Teaching Personnel**

- G. Papadimitriou (Professor)
- E. Karatza (Emeritus Professor)
- A. Miliou (Professor)
- P. Nikopolitidis (Professor)
- N. Pleros (Professor)
- P. Katsaros (Associate Professor)
- S. Petridou (Associate Professor)
- K. Draziotis (Assistant Professor)
- K. Kantelis (Assistant Professor)
- G. Pallas (IT Center AUTH, responsible for the network infrastructure)
Research in the field

Activity during the last eight years

18 Books
- 5 in English
- 13 in Greek

> 950 Research publications
- International Scientific Journals
- International Conferences

> 30 Research and Development Projects
- EU
- National agencies
- NATO
Employment prospects

Operators

• Systems Security Administrator
• Network Security Manager
• Network Architecture (+ cloud and Data Centers)
• Network administrator

Banks

Research Projects
Employment prospects

Industry

• Systems Security Administrator
• Network Security Manager
• Network Architecture (+ cloud and Data Centers)
• Network administrator

Energy

• Safety and reliability management
• Designing energy efficient networks (Topology, Reliability, Flexibility)
• Network management
Thank you for your attention!

Information / Contact
School of Informatics Secretariat: pms_info@csd.auth.gr
Professor Amalia Miliou: amiliou@csd.auth.gr
Apply at: http://cnss.csd.auth.gr/admissions
Contact numbers: 2310998930, 2310998709, 2310998410