University of the Peloponnese
ELECTRICAL AND COMPUTER
ENGINEERING DEPT.

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https://smart-ict.ece.uop.gr/

Graduate Study Program

Technologies and Services for Intelligent Information and Communication Systems

Specialitation

1 | Smart Cyber Systems and Services
2 | Advanced Technologies for Education
3 | Business Analytics and Data Science

Communication

M. Alexandrou 1, Patra, PO 26334, Greece
Tel: (+30) 2610 369236
email: smart-ICT [AT] ece.uop.gr
https://smart-ict.ece.uop.gr/

Study Object

The MSc program aims in the development of technologies, models and methods that concern the efficient administration and process of big data, knowledge mining and decision making in critical peripheral and national sectors and especially in modern cyber systems in education, business and organizations. Emphasis is given in familiarization and application of entrepreneurship and open innovation.

Specializations

The MSc program aims in training highly skilled professionals for the private or public sector with special digital skills in the domains of the following specializations:

1 | Smart Cyber Systems and Services

Concerns the study and development of technologies, models and methods for cybersystems that combine the technologies of embedded systems, communication networks, and decision making systems for monitoring and support of operations and actions that cover a large part of modern system demands

2 | Advanced Technologies for Education

Concerns the study and development of advanced educational technologies such as environments of Personalized Training, Bring Your Own Device, Cloud computing learning services, gamification, 3D educational worlds, Massive Open Courses etc. It also concerns the development of methodologies for educational data exploitation for decision making in school education

3 | Business Analytics and Data Science

Concerns the study of technologies, models and methods for the efficient administration and processing of business big data and knowledge mining for the support of business decision making

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Courses

1st Semester
Fundamental Knowledge – Mandatory Courses

» 101 – IoT
» 102 – Distributed Systems
» 103 – Next Generation Networks
» 104 – Machine Learning Technologies
» 105 – Technology and Entrepreneurship

In the 1st Semester the student enrolls in 5 mandatory courses

2nd Semester
Specializations – Mandatory Courses

» 201 – Advanced Security Systems
» 202 – Cloud Computing Technologies
» 203 – Big Data Management Systems

Selective Courses

The 2 courses the student will select:

1	Smart Cyber Systems and Services	2	Advanced Technologies for Education	3	Business Analytics and Data Science
» 211 – Cyberphysical Systems	» 221 – Advanced Educational Technologies Systems	» 231 – Business Intelligence
» 212 – Interface Design for Intelligent Systems	» 222 – Digital Skills for STEM sciences	» 232 – Advanced Data Mining Technologies

In the 2nd semester the student attends 5 courses, the 3 are mandatory and 2 selective ones depending on the specialization that will be selected.

3rd Semester
MSc Thesis

APPLICATIONS

For application submission visit the webpage:
https://smart-ict.ece.uop.gr/
and select "Application"

Diploma

The MSc graduates that have completed their obligations MSc diploma is awarded with the title "Technologies and Services for Intelligent Information and Communication Systems

Fees

2.100 euros, 700 euros/semester