

STUDIES IN DIGITAL SYSTEMS

INVESTMENT ON KNOWLEDGE OF DIGITAL SYSTEMS



Presentation Overview

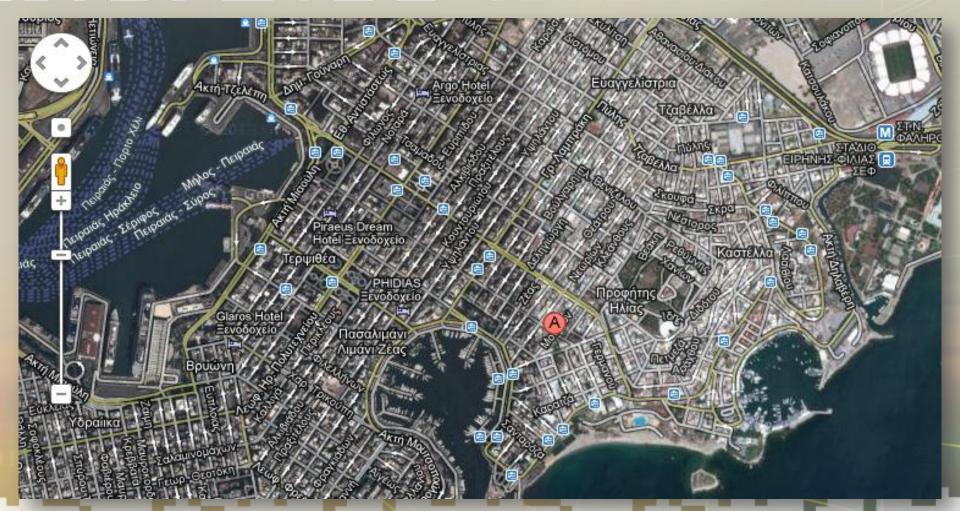
- Location of the Department's premises
- The Department in a Nutshell
- ❖ Studies and Education: Offered in the context of the Department

- Curricula
- Undergraduate Studies
 - Professional Rights
- Postgraduate studies and research
- PhD Studies
- Postdoctoral Studies
- * Administration and Human Resources



Location of the premises

University of Piraeus
Department of Digital Systems
80, Karaoli & Dimitriou Str.,
P.O. 18534, Piraeus





Location of the premises





The Department in a Nutshell



The **Department of Digital Systems** of the University of Piraeus was established in 1999. It covers important areas of the Digital Science and Technology field and is divided in two areas of study:

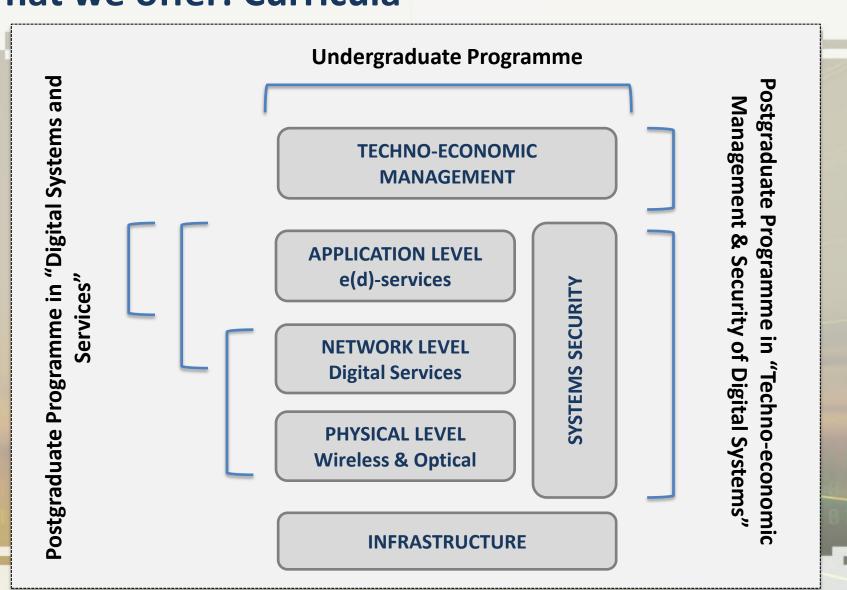
- 1. e-Services
- 2. Communication Systems and Networks

The Department housed in its very own building and situated at 150 Androutsou Str., provides (6) fully equipped Computer Labs with a capacity of one hundred and sixty (160) people for its undergraduate and postgraduate students. In the Labs, state-ofthe-art, steadily enriched and upgraded, equipment (both physical equipment and software) is provided.





What we offer: Curricula





What we offer: Undergraduate Programme

Studies



Credits

European Credit
Transfer and
Accumulation System
(ECTS)
240 Credits

The department of Digital Systems offers a four-year undergraduate programme in "Digital Systems" of 240 credits of the European Credit Transfer and Accumulation System (ECTS).



What we offer: Undergraduate Studies

Undergraduate Programme in "Digital Systems"

Areas of study

Communication Systems and Networks

Emphasizing on cutting-edge and upcoming wired and wireless broadband technologies, Internet and other telecommunications infrastructure.

e-Services

Emphasizing on Digital Services, such as:

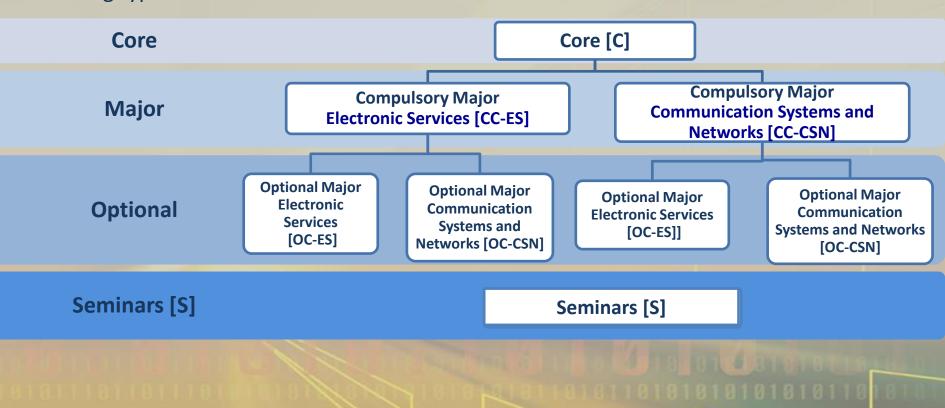
- e-learning,
- e-health,
- e-business,
- e-government.



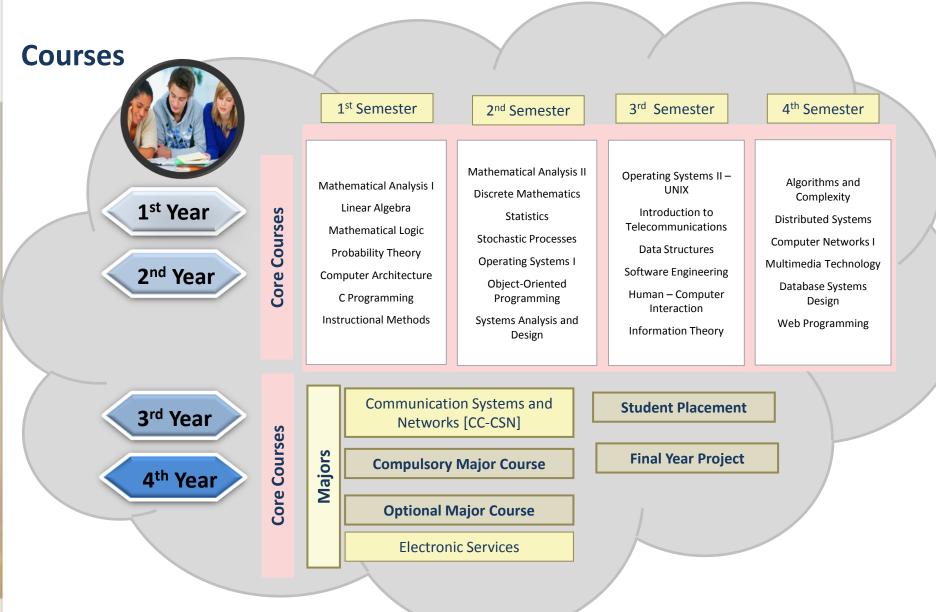
What we offer: Undergraduate Studies

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The individual courses offered by the Undergraduate Programme are divided into the following types:



What we offer: Undergraduate Studies





Benefits for the graduates of the Department of Digital Systems

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The graduates enjoy fully registered "Professional Rights of Engineers and Graduates of University Education in the fields of Informatics and Telecommunications" (registered in the Greek Law Π.Δ. 44/2009 (ΦΕΚ 58/Α'/8-4-2009))

The Department falls under the "professorial" schools category (according to the article 39 of the Greek Law v. 3794/2009 (ΦΕΚ 156/A'/4-9-2009)). Therefore, graduates can be appointed as teaching staff of the ΠΕ19 teaching branch without needing to obtain any additional degree or pedagogical training certificate.



Graduates' Professional Rights

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technology

systems

The Undergraduate Programme has been designed to prepare scientists capable of:

Developing cutting-edge digital technology systems

Dealing with complex systems design problems

Staffing IT and telecommunication companies the-art digital

Research (Greece and abroad)



What we offer: Postgraduate Studies and Research

Postgraduate Programmes in "Digital Systems"

"Digital Systems and Services"

Running from the academic year 2004-2005.

Leading to a Master's Degree (M.Sc.) of 90 ECTSs

"Techno-economic Management and Digital Systems Security"

Running from the academic year 2009-2010.
Leading to a Master's Degree (M.Sc.) of 90 ECTSs



What we offer: Postgraduate Studies and Research

Postgraduate Programmes in "Digital Systems"

"Digital Systems and Services"

(YA 159873/B7-ΦEK 2773/B' /16-10-2014)

"Techno-economic Management and Digital Systems Security"

> (YA 159888/B7-ΦΕΚ 2730/B' /13-10-2014)



What we offer: Postgraduate Studies and Research

Postgraduate Programmes in "Digital Systems"

Areas of Study

"Digital Systems and Services"

- e-Learning
- Network-Oriented Information Systems
- Digital Communications and Networks

"Techno-economic Management and Digital Systems Security"

- Techno-economic Management of Digital Systems
- Digital Systems Security



What we offer: Postgraduate Studies

Postgraduate Programme in "Digital Systems and Services"

Studies

1st Semester

2nd Semester

3rd Semester

Master Thesis

Master Thesis

Potential to complete Thesis:

- ☐ in collaboration with Universities or Research Institutes abroad, through the LLP Erasmus Programme
- in collaboration with Greek
 enterprises, through the
 University of Piraeus Postgraduate
 Practice Programme



What we offer: Postgraduate Studies

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Postgraduate Programme in "Digital Systems and Services"

Area of Study "e-Learning"			
1 st Semester		2 nd Semester	
Course Title	ECTS	Course Title	ECTS
Human – Computer Interaction	7,5	Learning Management System	7,5
Educational Design	7,5	e-Trainers Training	7,5
Web Applications	7,5	Learning Processes Management	7,5
Learning Theories and Teaching Models	7,5	Life Long Learning	7,5
3 rd Semester			

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What we offer: Postgraduate Studies

Postgraduate Programme in "Digital Systems and Services"

Area of Study "Network-Oriented Information Systems"			
1 st Semester		2 nd Semester	
Course Title	ECTS	Course Title	ECTS
Business Process Management	7,5	Cloud Computing	7,5
Information Systems and Services	7,5	Mobile Computing and Applications	7,5
Service-Oriented Architectures	7,5	Big Data and Analytics	7,5
Data Management and Business Intelligence	7,5	Information Systems Governance	7,5
3 rd Semester			

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What we offer: Postgraduate Studies

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Postgraduate Programme in "Digital Systems and Services"

Area of Study "Digital Communications and Networks"			
1 st Semester		2 nd Semester	
Course Title	ECTS	Course Title	ECTS
Future Internet Infrastructures	7,5	Broadband Communications	7,5
Wireless and Satellite Communications	7,5	Wireless Networks Design	7,5
Mobile Computing and Applications	7,5	Internet of Things and Embedded Systems	7,5
Computer Networks Design and Management	7,5	Future Internet and Cloud Computing	7,5
3 rd Semester			



What we offer: Postgraduate Studies

Postgraduate Programme in "Techno-economic Management and Digital Systems Security"

Studies

1st Semester

2nd Semester

3rd Semester

Master Thesis

Master Thesis

Potential to complete Thesis:

- ☐ in collaboration with Universities
 or Research Institutes abroad,
 through the LLP Erasmus
 Programme
- in collaboration with Greek
 enterprises, through the
 University of Piraeus Postgraduate
 Practice Programme



Network-Centric Systems and Services

Technoeconomic Analysis

MSc Dissertation

What we offer: Postgraduate Studies

Postgraduate Programme in "	Techno-economic Management and	Digital Systems Security"
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Area of Study "Techno-economic Management of Digital Systems"					
1 st Semester	2 nd Semester				

1 st Semester		2 nd Semester	
Course Title	ECTS	Course Title	ECTS
Business, Regulatory and Legal	6	Strategic Management of Digital	6

Course little	ECIS	Course little	ECIS
Business, Regulatory and Legal Framework of Telecommunication Networks and Services	6	Strategic Management of Digital Companies	6

Managerial Accounting **Advanced Information Systems Advanced Telecommunication** 6 **Network-Oriented Informational Technologies** Systems' Governance

3rd Semester

Managerial Finance

Services

Marketing of Digital Products and

6

6

6

6

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What we offer: Postgraduate Studies

Postgraduate Programme in "Techno-economic Management and Digital Systems Security"

Area of Study "Digital Systems Security"				
1 st Semester		2 nd Semester		
Course Title	ECTS	Course Title	ECTS	
Network Security	6	Mobile Internet Security	6	
Security Management	6	Digital Forensics and Web Security	6	
Security Assessment and Vulnerability Exploitation	6	Legal Aspects of Security	6	
Applied Cryptography	6	Privacy Enhancing Technologies	6	
Information Systems Security	6	Advanced Security Technologies	6	
3 rd Semester				



What we offer: PhD Studies

✓ The holders of a Master (M.Sc.) degree are eligible for applying to conduct a doctoral thesis.

Requirements

A Degree or Certificate obtained from the Highest Educational Institutions (A.E.I.), or an equivalent qualification obtained abroad, and recognized by DOATAP.

Certificate verifying sufficient knowledge of the English language.



What we offer: PhD Studies



Areas of research

Network-Oriented Systems and Services

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- Digital Health Services
- Telecommunication Networks and Integrated Services
- Security Systems
- Intelligent Systems and Multimedia Technologies
- Telecommunication Systems
- Technology Enhanced Learning



What we offer: Postdoctoral Research

➤ The Department of Digital Systems of the University of Piraeus offers to PhD graduates (of Greek or foreign Universities) the opportunity to conduct their post-doctoral research in collaboration with the members of the Department.

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- ➤ Through postdoctoral research the Department achieves collective excellence, as well as high level scientific collaboration, while international distinction both for the Department and the University in general is promoted.
- Therefore, postdoctoral research contributes to the quantitative and qualitative upgrade of research in the Department and the transfer of knowledge to cutting-edge and dynamic research areas for the benefit of society and national economy.



Laboratories



Laboratories

Network-Oriented Systems and Services

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- Digital Health Services
- Telecommunication Networks and Integrated Services
- Systems Security
- Telecommunication Systems
- Technology-Enhanced Learning



Administration

General Assembly

The General Assembly (G.A.) of the Department consists of all the Teaching and Research Staff members, as well as representatives of undergraduate and postgraduate students of the Department. The representatives of the Special Teaching Staff (S.T.S.) and the Special Administrative Technical Staff (S.A.T.S) of the Department also participate in the General Assembly (G.A.).

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General Assembly-Special Composition

The General Assembly of Special Composition (G.A.S.C.) of the Department consists of all of the Teaching and Research Staff members as well as representatives of the graduate students of the Department.

Chairman and Deputy Chairman

The Chairman and Deputy Chairman get elected by a special body of electors every two years in compliance with current legislation.

The Department's Chairman is Professor Panagiotis Demestichas, since September 2011.



Department Workforce

26 Academic Staff members (Professors, Associate Professors, Assistant Professors and Lecturers) specializing in a wide array of specific digital technologies and services areas.

Indicative Areas of the Department's Academic Staff Specialization include:

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Information Systems, Databases, Software Engineering, Network-Oriented Systems, Distributed Systems, Information & Network Systems Security, Web Services Systems, Intelligent Multimedia Systems, High Speed & Intelligent Networks, Digital Communications Systems, Satellite & Wireless Communication Systems, Broadband Communication Systems, Mobile Networks, Virtual Learning & eLearning Environments, eHealth Systems.



University of Piraeus Department of Digital Systems

MESSAGE FROM THE HEAD

Message from the Head of the Department

THE DEPARTMENT

ABOUT THE DEPARTMENT -

UNDERGRADUATE STUDIES -

POSTGRADUATE STUDIES & RESEARCH -

- Technology Education & Digital Systems
- Techno-economic Management & Security of Digital Systems
- PhD Studies
- Postdoctoral Research

ACADEMIC AGREEMENTS =

- >> LLP Erasmus
- >> Bilateral Agreements

PERSONNEL

- >> Faculty
- >> Technical Staff
- Administrative Staff

LABORATORIES ...

- Network-Oriented Systems & Services
- Digital Health Services
- Telecommunication Networks &
- Integrated Services

Postgraduate Studies



The main goal of the "e-Learning" area of study of the Postgraduate Programme in «Technology Education & Digital Systems» is to combine theoretical foundations and practical applications of the interdisciplinary field of Technologyenhanced Learning. The main scope of the programme is to develop the key competences for e-Learning experts, that is, professionals and researchers who will be engaged in the design, implementation and evaluation of technology-supported educational innovations at a wide range of educational contexts, including formal and informal learning.

Postgraduate Programme "Technology Education & Digital Systems "

Postgraduate Programme in "Technology Education & Digital Systems", leading to a Master's Degree (M.Sc.) of 90 ECTSs in one of following areas of study:

- Network-Oriented Systems

NEWS AND ANNOUNCEMENTS

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Digital Communications and Networks

Postgraduate Programme "Techno-economic Management & Security of Digital Systems "

Search.

Postgraduate Programme in "Techno-economic Management & Security of Digital Systems", leading to a Master's Degree (M.Sc.) of 90 ECTSs in one of the following areas of study:

Techno-economic Management of Digital Systems Digital Systems Security

More -



15 November 2013 - External Evaluation of Department of Digital Systems

For more information please visit:

http://www.ds.unipi.gr/en/