

# Core Courses

*Table of Core Courses*

1o Semester									
Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ10K1	Physics	C	2		0	6	2		Pachoulakis
ΤΠ10K2 ΤΠ11K2	Modern Topics in Informatics	C	2		2	8	6		Papadakis
ΤΠ10K3 ΤΠ11K3	Digital Design	C	4		2	14	8		Kornaros
ΤΠ10K4 ΤΠ11K4	Programming	C	4		2	14	8		Xezonakis
ΤΠ10K5	Calculus	C	2	2		8	4		Karayiannakis
ΤΠ10K6	Education	C	2			6	2		Xezonakis
2o Semester									
Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ20K1 ΤΠ21K1	Microelectronics	C	3		2	11	6		Panagiotakis
ΤΠ20K2 ΤΠ21K2	Computer Architecture	C	3		2	11	6		Kornaros
ΤΠ20K3 ΤΠ21K3	Introduction to Telecommunications	C	3		2	11	6		Stratakis
ΤΠ20K4 ΤΠ21K4	Data Structures	C	3		2	11	6	ΤΠ10K4 ΤΠ11K4	Xezonakis
ΤΠ20K7	Discrete Mathematics	C	2	1		8	4	ΤΠ10K5	Karayiannakis
ΤΠ20K6	Innovation, the Internet and Entrepreneurship	C	2			6	2		Tsiknakis
3o Semester									
Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ30K1 ΤΠ31K1	Operating Systems	C	3		2	11	6		Grammatikakis
ΤΠ30K2	Databases	C	3		2	11	6		Akoumianakis

ΤΠ31Κ2									
ΤΠ30Κ7 ΤΠ31Κ7	Multimedia Technology	C	3		2	11	6		Pachoulakis
ΤΠ30Κ4 ΤΠ31Κ4	Algorithms	C	3		2	11	6		Fragopoulou
ΤΠ30Κ5	Applied Mathematics	C	3	2		8	4	ΤΠ10Κ5	Karayiannakis
ΤΠ30Κ6	Terminology and Technical Writing	C	2			6	2		Tsiknakis

#### 4o Semester

Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ40Κ1 ΤΠ41Κ1	Digital Signal Processing	C	3		2	11	6		Papadourakis
ΤΠ40Κ2 ΤΠ41Κ2	Computer Networks	C	3		2	11	6		Panagiotakis
ΤΠ40Κ3 ΤΠ41Κ3	Internet Programming	C	3		2	11	6		Malamos
ΤΠ40Κ4 ΤΠ41Κ4	Principles of Software Engineering	C	3		2	11	6	ΤΠ10Κ4 ΤΠ11Κ4	Vidakis
ΤΠ40Κ5 ΤΠ41Κ5	Linear Algebra	C	2		2	8	4	ΤΠ30Κ5	Karayiannakis
ΤΠ40Κ6	Teaching Informatics	C	2			6	2		Xezonakis

## Courses of Network Engineering Subprogram

*Table of Courses of Network Engineering Subprogram*

5o Semester									
Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ70Δ5	Internet Multimedia and Graphics	C	2	1	2	9	6		Malamos
ΤΠ50Δ2	Wireless Communication Transmission Structures	C	2	1	2	9	6		Stratakis
ΤΠ50Δ6	Digital Communications	C	2	1	2	9	6		Stratakis
ΤΠ50Δ4	Satellite Communication Systems	EC	2	1	2	9	6		Panagiotakis
ΤΠ50Δ5	Digital Television Principles	EC	2	1	2	9	6		Pallis
6o Semester									

Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ60Δ1	Computer Networks II	C	2	1	2	9	6	ΤΠ40Κ2 ΤΠ41Κ2	Fragopoulou
ΤΠ60Δ2	Wireless Networks	C	2	1	2	9	6		Pallis
ΤΠ60Δ3	Multimedia Application Development	C	2	1	2	9	6	ΤΠ40Κ3 ΤΠ41Κ3	Malamos
ΤΠ60Δ4	Game Technologies	EC	2	1	2	9	6		Pachoulakis
ΤΠ60Δ5	Parallel Processing and Systems	EC	2	1	2	9	6		Fragopoulou

#### 7o Semester

Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ70Δ1	Mobile and Personal Communication Networks	C	2	1	2	9	6		Stratakis
ΤΠ70Δ2	Networks Security	C	2	1	2	9	6		Panagiotakis
ΤΠ70Δ3	Distributed Systems and Cloud Computing	C	2	1	2	9	6		Fragopoulou
ΤΠ70Υ6	Internet of Things and Automation	EC	2	1	2	9	6		Panagiotakis
ΤΠ50Λ1	Multimedia eHealth Services	EC	2	1	2	9	6		Tsiknakis

## Courses of Software Engineering Subprogram

*Table of Courses of Software Engineering Subprogram*

5o Semester									
Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ50Λ1	Multimedia eHealth Services	C	2	1	2	9	6		Tsiknakis
ΤΠ50Λ2	Plan-Driven and Agile Programming	C	2	1	2	9	6	ΤΠ10Κ4 ΤΠ11Κ4	Vidakis

ΤΠ50Λ3	Logic Programming	C	2	1	2	9	6		Marakakis
ΤΠ50Λ4	Data/Information Visualization	EC	2	1	2	9	6		Aivalis
ΤΠ50Λ5	Programming Languages	EC	2	1	2	9	6		Papadakis
<b>6o Semester</b>									
Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ60Λ1	Advanced Topics in Databases	C	2	1	2	9	6	ΤΠ30Κ2 ΤΠ31Κ2	Akoumianakis
ΤΠ60Λ2	Artificial Intelligence	C	2	1	2	9	6	ΤΠ50Λ3	Marakakis
ΤΠ60Λ3	Management of ICT Projects	C	2	1	2	9	6		Tsiknakis
ΤΠ60Λ4	Bioinformatics and Simulation of Physiological Systems	EC	2	1	2	9	6		Tsiknakis
ΤΠ60Λ5	Web Application Evaluation Systems	EC	2	1	2	9	6		Aivalis
<b>7o Semester</b>									
Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ70Λ1	Knowledge Systems	C	2	1	2	9	6	ΤΠ60Λ2	Marakakis
ΤΠ70Λ2	Designing the User Interface	C	2	1	2	9	6		Akoumianakis
ΤΠ70Λ3	Information Systems Security	C	2	1	2	9	6		Grammatikakis
ΤΠ70Λ4	Collaborative Technology and Applications	EC	2	1	2	9	6		Akoumianakis
ΤΠ70Λ5	Business Process Management Information Systems and Workflows	EC	2	1	2	9	6		Papadakis

## Courses of Computer Engineering Subprogram

*Table of Courses of Computer Engineering Subprogram*

5o Semester

Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ50Υ1	Graphics	C	2	1	2	9	6		Malamos
ΤΠ50Υ2	Digital Image Processing	C	2	1	2	9	6		Marias
ΤΠ50Υ3	Pattern Recognition	C	2	1	2	9	6		Papadourakis
ΤΠ50Υ4	Introduction to Robotics	EC	2	1	2	9	6		Papadourakis
ΤΠ50Υ5	Machine Learning and Data Mining	EC	2	1	2	9	6		Papadakis
<b>6o Semester</b>									
Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ60Υ1	Neural Nets	C	2	1	2	9	6		Papadourakis
ΤΠ60Υ2	Design and Architecture on FPGAs	C	2	1	2	9	6		Kornaros
ΤΠ60Υ6	Systems Programming	C	2	1	2	9	6		Grammatikakis
ΤΠ60Δ4	Game Technologies	EC	2	1	2	9	6		Pachoulakis
ΤΠ60Υ7	Introduction to Biomedical Signals and Applications	EC	2	1	2	9	6		Marias
<b>7th Semester</b>									
Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
ΤΠ70Υ1	Embedded Systems	C	2	1	2	9	6		Kornaros
ΤΠ70Υ2	Computer Vision	C	2	1	2	9	6		Marias
ΤΠ70Υ6	Internet of Things and Automation	C	2	1	2	9	6		Panagiotakis
ΤΠ70Λ3	Information Systems Security	EC	2	1	2	9	6		Grammatikakis
ΤΠ70Δ5	Internet Multimedia and Graphics	EC	2	1	2	9	6		Malamos
<b>8<sup>th</sup> Semester</b>									

Course Id	Title	Course Type	Theory	Theory Exercises	Lab	Workload	ECTS	Required Background	Academic Staff
	Bachelor Thesis	C	-	-	-				
	Industrial Placement	C	-	-	-				

**C** stands for **Compulsory**

**EC** stands for **Elective Compulsory**