UNIVERSITY OF THESSALY

STUDIES PROGRAM OF THE Department of Digital Systems

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DIPLOMA SUPPLEMENT

This Diploma Supplement model was developed by the European Commission, the Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification, to which this supplement is appended. It should be free from any value judgments, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should be given.

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 Family name(s)

1.2 Given name(s)

1.3 Date of birth (DD/MM/YY)

1.4 Student identification number or code (if available)

2. INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Title conferred (in original language)

ΠΤΥΧΙΟ (PTYCHIO) - DEGREE IN DIGITAL SYSTEMS

2.2 Main field(s) of study

Digital Systems

2.3 Institution awarding the qualification (in original

PANEPISTIMIO THESSALIAS (UNIVERSITY OF THESSALY), STATE UNIVERSITY

2.4 Name and status of institution (if different from 2.3) administering studies (in original language)

SAME AS IN 2.3

2.5 Language(s) of instruction/examination

GREEK

3. INFORMATION OF THE LEVEL OF THE QUALIFICATION

3.1 Level of qualification

UNDERGRADUATE - 1st cycle of studies - Level 6

3.2 Duration of studies

Full time studies: 4 years (8 semesters) ECTS Course Credits: 240

3.3 Admission requirement(s)

Apolytirio (Certificate) from Lykeio (Upper Secondary Education School) and PanHellenic entrance

4. INFORMATION OF THE CONTENTS AND RESULTS ACHIEVED

4.1 Mode of study

Full Time Attendance

4.2 Programme requirements

The programme of Digital Systems covers the subjects of Digital Systems, Software Systems and Applications, as well as Telecommunication Systems and Networks. The duration of the studies is 8 (eight) semesters. In all semesters, studies include theoretical teaching, laboratory exercises and practice exercises. Students become graduates after they have successfully acquired at least 240 ECTS credits. Students become graduates after they have succesfully: a) have acquired at least 240 ECTS credits, and b) submitted and presented their dissertation.

4.3 Programme details (e.g modules or units studied), and individual grades / marks / credits obtained (if this information is available on an official transcript, this should be used here)

Modules examined and awarded a pass grade and the ones recognised or exempted from are listed below:

Diploma Thesis:

Grade:

ECTS:

MODULE/COURSE CODE	TITLE	SEMESTER	TYPE Core/Optional	ECTS CREDITS	GRADE
Y100	Foreign Language and Technical Terminology I	1	CORE	2.0	
Y101	Mathematical Analysis	1	CORE	5.0	
Y102	Introduction to Digital Systems	1	CORE	5.0	
Y103	Introduction to Programming	1	CORE	6.0	
Y104	Digital Design	1	CORE	6.0	
Y105	Physics	1	CORE	6.0	
Y200	Foreign Language and Technical Terminology II	2	CORE	2.0	
Y201	Discrete Mathematics	2	CORE	5.0	
Y202	Probability and Statistics	2	CORE	6.0	
Y203	Electronics	2	CORE	5.0	
Y204	Object-Oriented Programming	2	CORE	6.0	
Y205	Systems Analysis and Design	2	CORE	6.0	
Y301	Numerical Analysis	3	CORE	5.0	
Y302	Advanced Programming	3	CORE	5.0	
Y303	Computer Networks I	3	CORE	5.0	
Y304	Data Structures	3	CORE	5.0	
Y305	Signals and Systems	3	CORE	5.0	
Y306	Linear Algebra	3	CORE	5.0	
Y401	Mobile & Pervasive Computing	4	CORE	5.0	
Y402	Database Systems	4	CORE	5.0	
Y403	Digital Signal Processing	4	CORE	5.0	
Y404	Algorithms Analysis and Design	4	CORE	5.0	
Y405	Computer-Systems Organization	4	CORE	5.0	
Y406	Computer Networks II	4	CORE	5.0	
Y501	Software Engineering	5	CORE	5.0	
Y502	Digital Communication Systems	5	CORE	5.0	
E501	Principals of Logistics	5	OPTIONAL	5.0	
E502	Internet Technologies and Applications	5	OPTIONAL	5.0	
E503	Parallel Programming	5	OPTIONAL	5.0	
E504	Parallel and Distributed Systems	5	OPTIONAL	5.0	
E505	Automatic Control Systems	5	OPTIONAL	5.0	
E506	Management Information Systems	5	OPTIONAL	5.0	
E507	Embedded Systems	5	OPTIONAL	5.0	
E508	Compilers	5	OPTIONAL	5.0	
E509	Image and Video Processing	5	OPTIONAL	5.0	
E510	Ecology and Sustainability	5	OPTIONAL	5.0	
E511	Research Methodology	5	OPTIONAL	5.0	
Y601	Operating Systems	6	CORE	5.0	

Y602	Artificial Intelligence and Expert Systems	6	CORE	5.0
E601	Broadband Communications	6	OPTIONAL	5.0
E602	Computer Architecture	6	OPTIONAL	5.0
E603	Digital Systems' Security	6	OPTIONAL	5.0
E604	Real-Time Systems	6	OPTIONAL	5.0
E605	Graph Theory	6	OPTIONAL	5.0
E606	Meteorology and Digital Systems	6	OPTIONAL	5.0
E607	Environmental Geoinformatics' Applications	6	OPTIONAL	5.0
E608	e-Business Systems	6	OPTIONAL	5.0
E609	Precision Systems' Applications in Primary Production	6	OPTIONAL	6.0
E610	Digital Systems' Applications in Industry	6	OPTIONAL	5.0
E611	Didactics of Technology	6	OPTIONAL	5.0
E701	Information Theory	6	OPTIONAL	5.0
E702	Hardware Systems' Design	7	OPTIONAL	5.0
E703	Systems' Design and Simulation	7	OPTIONAL	5.0
E704	Wireless Sensor Networks and Internet of Things	7	OPTIONAL	5.0
E705	Data Mining and Decision Support Systems	7	OPTIONAL	5.0
E706	Quality Assurance of Digital Systems	7	OPTIONAL	5.0
E707	Telemetry and Remote Sensing Applications	7	OPTIONAL	5.0
E708	Digital Systems in Fishing	7	OPTIONAL	5.0
E709	Entrepreneurship and Innovation	7	OPTIONAL	5.0
E801	Computation Theory	8	OPTIONAL	5.0
E802	Software Project Management	8	OPTIONAL	5.0
E803	Operational Research	8	OPTIONAL	5.0
E804	Robotic Systems	8	OPTIONAL	5.0
E805	Intelligent Agents' Systems	8	OPTIONAL	5.0
E806	Wireless and Mobile Communications	8	OPTIONAL	5.0
E807	Environmental Applications of Digital Systems	8	OPTIONAL	5.0
E808	Human and Veterinary Telemedicine	8	OPTIONAL	5.0
E809	Introduction in Economics	8	OPTIONAL	5.0
E810	Quantum Programming	8	OPTIONAL	5.0
	Bachelor's Thesis	8	OPTIONAL	30.0
			Total ECTS:	**240**

Note: The title courses followed by an asterisk (*) are not calculated in the degree grade.

Internship (5 ECTS): _____

4.4 Grading scheme and, if available, grade distribution guidance language)

According to the Institution's Internal Regurations, falls into the 0-10 scale as follows:
8.5 - 10: «Excellent»
6.5 - 8.49: «Very Good»
5.0 - 6.49: «Good»
0.0 - 4.99: «Fail»
At least a grade of 5.0 is required for the successful completion of a course.

4.5 Overall classification of the qualification (in original

0.00 (ZERO) EXCELLENT (ARISTA) the grading system

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further study

A degree (PTYCHIO) from the Department provides the opportunity for access to postgraduate studies in order to obtain a specialist postgraduate diploma and/or a doctoral diploma.

5.2 Professional status (if applicable)

The graduate of the Digital Systems Department, having acquired specialised scientific and technological knowledge, is employed in the private and public sector, according to the Presidential Decree 183/3-12-2008 published in Gov. Gazette A΄246/3-12-2008)

6. ADDITIONAL INFORMATION

6.1 Other information

Students are entitled to an Erasmus period for studies and/or placement abroad within the framework of Erasmus +.

6.2 Further information sources

Website of the Ministry of Education: http://www.minedu.gov.gr

Website of Hellenic NARIC: http://www.doatap.gr/

Website of IKY: http://www.iky.gr/

Website of University of Thessaly: http:// www.uth.gr

7. CERTIFICATION OF THE SUPPLEMENT

7.1 Date:

7.2 Name and Signature: VASILEIOS GEROGIANNIS, PROFESSOR

7.3 Capacity:

HEAD OF DEPARTMENT

7.4 Official stamp or seal:

8. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM (i) Structure

Tertiary Education is provided by the Greek Tertiary Educational Institutions (TAIs). TAIs are totally self-governed legal entities of public law supervised by the Ministry of Education and Religious Affairs. Tertiary Education consists of two distinct parallel sectors: (a) the university sector, which includes the Universities, Polytechnics, and the Athens School of Fine Arts, henceforth referred to as "Universities", and (b) the technological sector, which includes the Technological Educational Institutes (TEIs) and the School of Pedagogical and Technological Education (SPTE), henceforth referred to as "TEI".

(ii) Access

Entrance to the various Schools of the **Universities *(Panepistimio)*** and **Technological Education Institutions (*Technologiko Ekpaideftiko Idryma* - TEI)** depends on the general score obtained by Lyceum graduates on the Certificate, on the number of available places (*numerus clausus*) and on the candidates' ranked preferences among schools and sections.

(iii) Qualifications

Students who successfully complete their studies in universities and TEI are awarded a *Ptychio* (first cycle degree). First cycle programmes last from four years for most fields to five years for engineering and certain other applied science fields and six years for medicine. The *Ptychio* leads to employment or further study at the post-graduate level that includes the one year second cycle leading to the second degree, *Diploma Metaptychiakon Spoudon* - equivalent to the *Master's* degree - and the third cycle leading to the doctorate degree, *Didaktoriko Diploma*.

Legislation on quality assurance in Higher Education, the Credit Transfer System and the Diploma Supplement defines the framework and criteria for evaluation of university departments and for certification of student degrees. These measures aim at promoting student mobility and contributing to the creation of a European Higher Education Area.

A detailed description of the Greek Education System is offered in:

EURYDICE (http://www.eurydice.org) database of the European Education Systems.

http://eacea.ec.europa.eu/education/eurydice/documents/thematic_reports/122EN.pdf (pages 82,83)