



HELLENIC REPUBLIC
ARISTOTELEIO PANEPISTIMIO THESSALONIKIS (ARISTOTLE UNIVERSITY OF THESSALONIKI)
FACULTY OF SCIENCES
SCHOOL OF BIOLOGY

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DIPLOMA SUPPLEMENT

This Diploma Supplement is based on the model developed by the European Commission, 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 accompanying 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 give the reason why.

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

- 1.1 Family Name(s): PANA
1.2 Given Name(s): ELEANNA
1.3 Date of birth (day/month/year), Place, Country of Birth 1-2-1985, KORINTHOS, GREECE
1.4 Student identification number or code: 1610220090003279

2. INFORMATION IDENTIFYING THE QUALIFICATION

- 2.1 Name of the qualification and (if applicable) title conferred (in original language):
Μεταπτυχιακό Δίπλωμα Ειδίκευσης, Μ.Δ.Ε. (Metaptychiako Diploma Eidikefsis-Postgraduate Degree of Specialization).
2.2 Main field(s) of study for the qualification:
Ecological Water Quality and Management at a Basin Level.
2.3 Name and status of awarding institution (in original language):
Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (Α.Π.Θ.), (Aristoteleio Panepistimio Thessalonikis-Aristotle University of Thessaloniki, A.U.Th.), Public University.
2.4 Name and status of institution (if different from 2.3) administering studies (in original language) :
As in 2.3.
2.5 Language(s) of instruction/examination: Greek. English in case of ERASMUS-MUNDUS students

3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

- 3.1 Level of qualification: 2nd Cycle
3.2 Official length of programme:
3 SEMESTERS, 90 ECTS
A full academic year is equivalent to 60 ECTS units and each semester to 30 ECTS (European Credit Transfer System) (IECTS=25-30 student work load hours). Compliance with the ECTS (European Credit Transfer and Accumulation System) regulations started in 2007, when the Greek Legislation was harmonized with the relevant European one (Ministerial Decision no Φ5/89656/β3, art. 1-3, Hellenic Government Gazette no 1466/2007/B). Each course is credited with a number of ECTS (≥ 2) according to the student's workload (contact hours, laboratory work, examination etc) and accumulation of credits (ECTS) is accomplished after successful completion of the course.
3.3 Access requirement(s):
A Degree awarded by a Greek public University or by a recognized foreign Institution of equivalent status or by a Technological Education Institute is required. The Degree subject has to be related to that of the Interdisciplinary Postgraduate Study Programme; otherwise the candidate students have to be examined on relevant subjects. Students from the exchange programme ERASMUS - MUNDUS are also accepted.

4. INFORMATION ON THE CONTENT AND RESULTS GAINED

4.1 Mode of study:

Full-time

4.2 Programme requirements:

To obtain their qualification from the Interdisciplinary Postgraduate Study Programme (IPSP) "Ecological water quality and management at a basin level" of the Schools of Biology, Geology and Civil Engineering students have to successfully complete the 3 semesters that correspond to 90 ECTS (Ministerial Decision no 67145/B7, Hellenic Government Gazette no 1889/2007/B). They have to attend and complete successfully the exams of the 1st semester courses (basic knowledge, scientific area, skill development) that correspond to 30 ECTS. During the 2nd semester, which corresponds to 30 ECTS, they have to follow and present a working protocol of their Internship, work on a Case Study which has to be presented and examined before a jury. During the 3rd semester, which corresponds to 30 ECTS, the students prepare and submit a Master Thesis which they defend in public.

The Programme aims at assessing the ecological water quality and management at a river basin level in accordance with the Water Framework Directive 2000/60 E.C. The Programme is organised so as to promote an interdisciplinary approach and produce skilled scientific personnel for research, public service and private sector on water protection, and contribute to the water protection and to the social and economic development framework of Greece. The Programme involves theoretical courses, laboratory work and internship in a systemic approach for monitoring water ecosystems and management of watersheds and concern of the environment, society and sustainable development. Additionally, at the end of their studies the postgraduates must organize fully (even the fund raising) a one day's congress where they have to present their Case Studies or/and their postgraduate theses to stakeholders (students, professors and relative administrative authorities).

Upon the completion of the programme requirements the graduate will be capable of handling Data bases (MS Access), bibliographic bases (e.g. Refworks), logistic platforms like Blackboard, remote sensing, GIS, CORINE CLC 2000, simulation models, IMPRES, DSPIR, SWOT analyses, univariate, and multivariate analyses (e.g. CLUSTER, CANOCO, FUZZY).

Upon completion in addition to the basic knowledge of their discipline and profession graduates will be also able to: 1) apply knowledge in practice, 2) communicate in a second foreign language since all the bibliography, the presentations and the written scientific papers are in English, 3) search, process, analyse and synthesize data and information, use also the necessary technologies, 4) adapt to novel situations and make decisions, 5) work independently or in groups in international and/or interdisciplinary contexts, 6) generate new research ideas and design and manage projects, 7) respect diversity, multiculturalism and the natural environment, 8) demonstrate social, professional and moral responsibility and sensitivity to gender issues, 9) reflect on themselves and on others critically, 10) promote free, inductive and deductive thinking.

4.3 Programme details (e.g. modules or units studied and individual grades/marks/credits obtained):

Courses that the student has successfully attended, as well as subjects for which the student has received recognition or exemption (COR=compulsory courses. Course code I denotes: Interdisciplinary and the serial number)

Code	Courses	Type	ECTS credits	Grade	Examination period
18	Restoration of aquatic ecosystems	COR	2.0	9.0	JUNE 2010
15	Assessment of the ecological quality and classification	COR	2.0	6.4	JUNE 2010
16	Socioeconomic management. Environmental education and awareness. Management Authorities of protected areas. Legislation	COR	4.0	9.5	JUNE 2010
12	Methods of sampling, Typology. Remote sensing, GIS	COR	6.0	8.8	JUNE 2010
14	Monitoring of the ecological quality. Biotic indices	COR	8.0	8.1	JUNE 2010
17	Simulation alternative scenarios. Management at a basin level	COR	4.0	9.1	JUNE 2010
11	Physical functions of a river basin	COR	2.0	8.7	JUNE 2010
13	Land use, Human pressures, Impact assessment	COR	2.0	8.5	JUNE 2010
19	Case Study	COR	15.0	9.1	FEB. 2011
110	Internship	COR	15.0	SUCCESS	FEB. 2011
TOTAL ECTS			60		

The Case Study and the Internship, are credited jointly with a total workload of 30 ECTS and are awarded a common grade in the transcript of records and the Diploma Supplement (Rules of the special Cooperation Protocol of the Interdisciplinary Postgraduate Study Programme of the Schools of Biology, Geology and Civil Engineering, article 13)

Postgraduate Diploma Thesis: "Spatially distributed cost of virtual water from agricultural use in the river basin of Tirnavos"
Internship Body: "GEOINFO Applied Research and Studies, Private Company"

4.4 Grading scheme, and if available, grade distribution guidance :

A scale of 1 to 10 applies to the marks of each subject in the Hellenic Higher Education.
Άριστα (Arista) Excellent: 8.50-10.00

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6. ADDITIONAL INFORMATION

- Not applicable

- WEBSITE OF THE INTERDISCIPLINARY POSTGRADUATE PROGRAM OF
STUDIES: <http://www.bio.auth.gr/dpms/english/index.html>
SCHOOL OF BIOLOGY: <http://www.bio.auth.gr>
POSTGRADUATE'S WEBSITE: <http://postgrads.bio.auth.gr>
SCHOOL OF GEOLOGY: <http://www.geo.auth.gr>
SCHOOL OF CIVIL ENGINEERING: <http://www.civil.auth.gr>
ARISTOTLE UNIVERSITY OF THESSALONIKI: <http://www.auth.gr>
MINISTRY OF EDUCATION AND RELIGIOUS AFFAIRS, CULTURE AND SPORTS: <http://www.minedu.gov.gr>
EUROPEAN UNION EDUCATIONAL ISSUES: <http://www.europa.eu.int>
EURYDICE: http://eacea.ec.europa.eu/education/eurydice/documents/thematic_reports/122EN.pdf

7. CERTIFICATION OF THE SUPPLEMENT

- 7.2 Name and Signature: Professor M. YIANGOU

Professor M. YIANGOU

Head of the School

- 7.3 Capacity:
- 7.4 Official Stamp or seal:

This certificate is issued for foreign authorities and is signed by the President of the School according to the Ministry of Education and Religious Affairs (KEPPA) 33324/24-7-2013 (Hellenic Government Gazette no 1906/2013/B).

8. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

Pursuant to the Constitution (article 16, paragraph 5), Greek Tertiary Education is public and gratis. Furthermore, according to the legal framework, it is divided into:

- (a) the University sector (A.E.I.): Universities, Technical Universities, Fine Arts School, etc., and
- (b) the Technological sector (T.E.I.): Technological Education Institutions and the School of Pedagogic and Technological Education.

Part of the University sector is also, since 1998, the Greek Open University, which provides open and distance -undergraduate and postgraduate- education and training.

There are also state post-secondary non-tertiary Institutions offering vocationally oriented courses of shorter duration (2 to 3 years), which operate under the authority of other Ministries.

All graduates of secondary education (Geniko and Epagelmatiko Lykeio) can be admitted to Higher Education Institutions, depending on the general score obtained in national examinations that take place at the end of the final year of Lyceum. The admission system is based on the number of available places (numerus clausus), the candidates' performance, and the candidates' ranked preferences of Schools. Admission to particular schools may also require a special examination (eg drawing for Architecture, etc.).

Study programmes in Higher Education Institutions last from four to six years, depending on the subject area. Students who successfully complete their studies are awarded a Ptychio / Diploma, which permits employment or further studies at post-graduate level leading to a Metaptychiako Diploma Eidikefsis (2nd cycle) - equivalent to the Master's degree- and to the doctorate degree (3^d cycle), Didaktorio Diploma.

Legislation on quality assurance in Higher Education, the Credit Transfer and Accumulation System (ECTS) and the Diploma Supplement defines the framework and the criteria for the evaluation of Higher Education Institutions, and for the certification of programmes of studies. These measures aim, among others, at promoting student mobility and contributing to the creation of the 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)

