



## 4. INFORMATION ON THE CONTENT AND RESULTS GAINED

### 4.1 Mode of study:

Full-time

### 4.2 Programme requirements:

The post-graduate programme "Meteorology, Climatology and Atmospheric Environment" aims to promote the science of Meteorology, Climatology and Atmospheric Environment, through the establishment of specialised scientists as well as through the effective link among research, teaching and application.

The graduate students in order to obtain their Postgraduate Degree of Specialisation in "Meteorology, Climatology and Atmospheric Environment" are required to successfully complete 4 semesters that correspond to a total of 120 ECTS. During the 1<sup>st</sup>, the 2<sup>nd</sup> and 3<sup>rd</sup> semesters, which correspond to 90 ECTS, the students have to attend and complete successfully the exams of their taught courses. During the 4<sup>th</sup> semester they follow a traineeship lasting one (1) month corresponding to 7 ECTS, and work on their Master Thesis (23 ECTS) which they defend in public.

The post-graduate program offers a Postgraduate Degree of Specialisation in "Meteorology, Climatology and Atmospheric Environment".

Upon successful completion of the programme requirements, the graduate will be able to acquire skills and knowledge in the fields of a) Meteorology, b) Climatology and c) Atmospheric Environment, directly related to fundamental and applied research in Earth and Environmental Sciences. Specifically, in the context of Meteorology, the students expand and deepen their knowledge in the subjects of Practical, Synoptic and Dynamic Meteorology, Agro-meteorology, Cloud Physics and Hydro-meteorology, as well as in Weather Forecast and Weather Modification issues. Also, in the context of Climatology, the students enrich their knowledge in Dynamical, Physical and Applied Climatology, Climate Analysis Climate Change. Finally in the context of Atmospheric Environment the students follow taught courses giving emphasis on Atmospheric Pollution and Atmospheric Chemistry, Earths Radiation Budget and the physical processes of the Atmospheric Boundary Layer.

The students, beyond the aforementioned theoretical taught courses, acquire practical experience from a traineeship of one (1) month in Macedonia Airport Weather Office and the Centre for Meteorological Applications of Greek Agricultural Insurance Organisation on issues related to Weather Forecast and Weather Modification and analysis and synthesis of meteorological data to produce weather maps. Finally the students acquire modern research experience through their research work in the framework of their Master Thesis.

### 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, ELC = Elective courses.)

Code	Courses	Type	ECTS credits	Grade	Examination period
GMCM105Y	Solar and Terrestrial Radiation	COR	7.0	6.0	SEPT. 2009
GMCM103Y	Thermodynamics and Statics of the Atmosphere	COR	5.0	9.0	FEB. 2009
GMCM104Y	Methods of Climatic Analysis	COR	8.0	10.0	FEB. 2009
GMCM101Y	Practical Meteorology	COR	5.0	8.0	FEB. 2009
GMCM102Y	Computers	COR	5.0	6.0	FEB. 2009
GMCM205Y	Agricultural Meteorology	COR	4.0	8.0	JUNE 2009
GMCM204Y	Atmospheric Pollution	COR	6.0	8.0	JUNE 2009
GMCM201Y	Dynamic Meteorology	COR	6.0	7.0	FEB. 2010
GMCM206Y	Climatic Changes	COR	4.0	8.0	JUNE 2009
GMCM202Y	Synoptic Meteorology	COR	6.0	9.0	JUNE 2009
GMCM203Y	Hydrometeorology	COR	4.0	8.0	JUNE 2009
GMCM305Y	Numerical Weather Forecast	COR	4.0	9.0	FEB. 2010
GMCM304Y	Atmosphere Boundary Layer	COR	4.0	9.0	FEB. 2010
GMCM302Y	Dynamic and Physical Climatology	COR	6.0	10.0	FEB. 2010
GMCM303Y	Applied Climatology	COR	4.0	10.0	FEB. 2010
GMCM301Y	Physics of the Clouds and Weather Change	COR	8.0	8.0	FEB. 2010
GMCM402Y	Practical Training (1 month)	COR	7.0	10.0	JUNE 2010
GMCM02E	Principles of Atmospheric Chemistry and Pollution	ELC	2.0	9.0	FEB. 2010
GMCM01E	Climate of the Mediterranean and Greece	ELC	2.0	9.0	FEB. 2010
<b>PROJECT</b>					
	Postgraduate Diploma Thesis:		23.0	10	23/2/2012
<b>TOTAL ECTS</b>			<b>120.0</b>		

Postgraduate Diploma Thesis: Study of Urban Heat Island Effect in Thessaloniki

### 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

Λίαν Καλώς (Lian Kalos) Very Good : 6.50- 8.49  
 Καλώς (Kalos) Good : 6.00-6.49  
 Ανεπιτυχώς (Anepytichos) Fail:0-5.99  
 Minimum passing grade : 6

**4.5 Overall classification of the qualification (in original language):**

"Άριστα" (Excellent): 8.93

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**5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION**

**5.1 Access to further study:**

The qualification is a terminal award and allows access to doctoral studies

**5.2 Professional status (if applicable):**

The Postgraduate Degree of Specialisation in "Meteorology, Climatology and Atmospheric Environment" is a sufficient requirement for professional employment in the public or private sector in accordance with the National and European Union legislation. In some cases, professional employment in the public or private sector requires specialized knowledge in Atmospheric and Environmental sciences, which have as typical or essential condition the receipt of a relevant Masters Degree, such as the Postgraduate Specialization Diploma in Meteorology, Climatology, Atmospheric Environment.

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**6. ADDITIONAL INFORMATION**

**6.1 Additional information:**

Not applicable

**6.2 Further information sources**

SCHOOL OF GEOLOGY: <<http://www.geo.auth.gr>>

ARISTOTLE UNIVERSITY OF THESSALONIKI: <http://www.auth.gr>

MINISTRY OF EDUCATION AND RELIGIOUS AFFAIRS: <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](http://eacea.ec.europa.eu/education/eurydice/documents/thematic_reports/122EN.pdf)

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**7. CERTIFICATION OF THE SUPPLEMENT**

**7.1 Date:** 9/3/2012

**7.2 Name and Signature:** Professor G. Tsokas



**7.3 Capacity:** Head of the School

**7.4 Official Stamp or seal:**

This certificate is issued for foreign authorities and is signed by the Head of the School according to the regulation No. 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:

- the University sector (A.E.I.): Universities, Technical Universities, Fine Arts School, etc., and
- 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 (2<sup>nd</sup> cycle) - equivalent to the Master's degree- and to the doctorate degree (3<sup>d</sup> cycle), Didaktoriko 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](http://eacea.ec.europa.eu/education/eurydice/documents/thematic_reports/122EN.pdf)> (pages 82,83)

