



**EASTERN MACEDONIA AND THRACE INSTITUTE OF TECHNOLOGY SCHOOL OF TECHNOLOGICAL ENGINEERING  
DEPARTMENT OF ELECTRICAL ENGINEERING**

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## **DIPLOMA SUPPLEMENT**

This Diploma Supplement follows 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 qualification to which this supplement is appended. It should be free from any value-judgements, 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.

### **INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION 1.**

- 1.1 Family name(s):**
- 1.2 Given name(s):**
- 1.3 Date of Birth (day/month/year):**
- 1.4 Student identification number or code (if available):**

### **2. INFORMATION IDENTIFYING THE QUALIFICATION**

- 2.1 Name of qualification and (if applicable) title conferred (in original language):**  
Ptychio -Πτυχίο
- 2.2 Main field(s) of study for the qualification:**  
Electrical Engineering
- 2.3 Name and status of awarding institution:**  
Kavala Institute of TechnologyTechnologiko Ekpaideftiko Idryma - Public Institution of Higher Education
- 2.4 Name and status of institution administering studies:**  
as 2.3
- 2.5 Language(s) of instruction/ examination:**  
Greek

### **3. INFORMATION ON THE LEVEL OF QUALIFICATION**

- 3.1 Level of qualification:**  
Undergraduate
- 3.2 Official length of programme:**  
Duration : 4 years (8 semesters) ECTS credits: 240
- 3.3 Access requirements:**
  - Apolytirio (certificate) from Lykeion (High School - Secondary Education) and Pan-Hellenic entrance examinations (second attempt), or
  - Apolytirio (certificate) from Technical Vocational Educational Schools (High School - Secondary Education) and Pan-Hellenic entrance examinations, or
  - Special Categories (like: rate of disability 5%, athletes and Cypriots students).

### **4. INFORMATION ON THE CONTENTS AND RESULTS GAINED**

- 4.1 Mode of study:**  
Full-time attendance

## 4.2 Programme requirements:

According to the National Law for the Technological Educational Institutions (TEI) and the Institution's Internal Regulations students graduate after having:

· successfully attended all courses (40) of the programme · completed a six-month internship on an area related to the field of study · successfully completed and defended the final thesis, and · accumulated 240 ECTS credits

Upon the completion of studies, the graduates acquire the necessary scientific and technological knowledge, skills and competencies on the subjects of distribution and transformation of electrical energy, high voltage technology, electrical machines, indoor electrical installations technology, renewable energy sources, control systems, electronics and communications and computer science. The graduates are eligible to commence as freelance professionals or as executives in business units and organisations in areas such as:

· Application and management accounting in systems of distribution and transformation of electrical energy, high voltage technology, electrical machines, indoor electrical installations technology, automatic control systems, electronics & communications and computer science.

· After sales service of electrical energy systems, electrical installations, controls systems and information systems.

· Electrical constructions organisation, management systems of electrical energy transportation and units controlling the electrical installations.

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

The subjects in which the above mentioned student has been examined and got passing grades as well as the subjects for which the student has received recognition or exemption, are the following:

Code	Subject Title	Grade	Examination Period	ECTS
AN1	MATHEMATICS I			9.0
AN2	PHYSICS			4.5
AN3	COMPUTER - AIDED ELECTRICAL DESIGN			2.0
AN4	APPLIED THERMODYNAMICS			4.5
AN5	APPLIED PROGRAMMING			4.0
AN6	ELECTRICAL CIRCUITS I			6.0
BN1	MATHEMATICS II			7.5
BN2	ELECTRONICS I			6.0
BN3	ELECTRICAL CIRCUITS II			6.0
BN5	ELECTROMAGNETIC THEORY			3.0
BN6	ENGLISH LANGUAGE			3.0
BN4	ENGINEERING OF MATERIALS			4.5
ΓN2	ELECTRONICS II			4.5
ΓN4	DIGITAL ELECTRONICS			4.5
ΓN5	INTRODUCTION TO BIOENGINEERING			4.0
ΓN6	OPERATIONAL RESEARCH			3.0
ΓN1	MATHEMATICS III			8.0
ΓN3	ELECTRICAL MACHINES I			6.0
ΔN2	MEASUREMENTS SYSTEMS			5.5
ΔN3	AUTOMATIC CONTROL			5.5
ΔN4	SYSTEMS MODELLING			4.5
ΔN6	ENERGY ECONOMICS			4.5
ΔN5	MANAGEMENT - PROJECT MANAGEMENT			4.5
ΔN1	ELECTRICAL MACHINES II			5.5
EN1	TELECOMMUNICATION SYSTEMS			6.0
EN3	SIGNAL PROCESSING			6.0
EN5	SAFETY AND TECHNICAL LEGISLATION			3.0
EN2	POWER ELECTRONICS			6.0
EN4	ELECTRICAL INSTALLATIONS I			9.0
ΣTN5	TOTAL QUALITY MANAGEMENT			3.0
ΣTN6 -ΠΠ.	POLITICAL ECONOMY			0.0
ΣTN1	ELECTRIC DRIVE SYSTEMS			6.0
ΣTN2	POWER SYSTEMS			6.5
ΣTN3	RENEWABLE ENERGY SOURCES			6.5
ΣTN4	ELECTRICAL INSTALLATIONS II			8.0
ZN3	WIRELESS COMMUNICATIONS			4.5

**Code Subject Title Grade Examination ECTS Period**

ZN7 ENTREPRENEURSHIP 9.0 nine,zero JAN. 2013 3.0 ZN5 ENERGY PRODUCTION PLANNING 5.0 five,zero JAN. 2014 4.5 ZN6 -ΠΠ. NON DESTRUCTIVE TESTING 5.0 five,zero JAN. 2012 0.0 ZN8 -ΠΠ. STUDIES OF ENVIROMENTAL IMPACT 8.0 eight,zero JAN. 2014 0.0 ZN1 HIGH VOLTAGE 7.5 seven,five JAN. 2014 6.0 ZN2 PROGRAMMABLE LOGIC CONTROLLERS 6.6 six,six JUNE 2012 6.0 ZN4 NUCLEAR TECHNOLOGY 6.6 six,six JAN. 2014 6.0 H1 \*INTERNSHIP Succ. 10.0 H2 \*DISSERTATION 10.00 ten,zero 12/6/2014 20.0

240.0

TOTAL ECTS CREDITS

The column ECTS Credits presents the credits that correspond to each subject

Subjects with no ECTS Credits are not included in prerequisites for receiving the degree

Subjects with grade and 0.0 ECTS Credits are optional and are not incorporated in the final degree

Subject EXEMPTION is applied when a student carries the ECTS from previously completed studies

Subjects' codes are in Greek due to the database design

Title of thesis:

The internship has been conducted at Eastern Macedonia & Thrace (EMT ) Institute of Technology

Intership is evaluated either 'Successfully' or 'Fail'. The Succ. refers to 'Successfully'

**4.4 Grading scheme and, if applicable, grade distribution guidance:**

According to the Institution's Internal Regulations, the grading system 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

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

Grade Average: 7.95 - Very Good - SIX AND EIGHTY HUNDREDTHS

**5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION****5.1 Access to further study:**

Access to Postgraduate studies

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

The department's graduates are eligible to be freelance professionals or as business and organisation executives in areas related to the electricity. The title of studies does not lead directly to a regulated profession. The electrical engineering department graduates are eligible to acquire an Electrical Engineering B' grade certificate according to Law B.D.699\_ FEK.233/17.11.71 vol. A and give the authority of execution, supervision and maintenance of electrical systems such as: · A' grade for power up to 100 KW · C' grade for power up to 175 KW · F' grade for power up to 250 KW

With the demanded, after the ptychio, previous employment in electrical installations (one year employment in electrical installations with voltage greater to 1000 V grade C' or F') licensure electrical engineer A' grade with the following licenses: · Study and appliance of electrical installations. · A' grade for power up to 150 KW · C' grade for power up to 150 KW · D' 1st category. · F' grade for power up to 400 KW and for voltage up to 1000V independent of the power. · Supervision and maintenance of electric systems. · A' grade for power up to 300 KW · C' grade for power up to 300 KW · D' 1<sup>st</sup> category. · F' grade for power up to 600 KW and for voltage up to 1000V independent of the power. By acquiring the required work experience and according to the relevant law concerned to the constructions degree, the Department's graduates have the right to become Chartered Engineers in order to participate to public constructions.

Furthermore, the degree provides professional rights according to the law and they are eligible to acquire an electrical engineering grade certificate according to Law B.D.699\_ FEK.233/17.11.71 vol. A.

For more information: <http://www.teikav.edu.gr>

## **6. ADDITIONAL INFORMATION**

### **6.1 Additional information:**

Graduates are entitled to sit in exams for professional certificates Erasmus placement Distinctions / Awards

### **6.2 Further information sources:**

- TEI of Kavala, dept. of Electrical Engineering: <http://www.teikav.edu.gr/ed/>
- Hellenic Ministry of Education, Lifelong Learning and Religious Affairs: <http://www.minedu.gov.gr>
- ENIC (European Network of Information Centers in the European Region) and NARIC (National Academic Recognition Information Centers in the European Union): <http://www.enic-naric.net/index.aspx?c=Greece>
- Hellenic NARIC (DOATAP): <http://www.doatap.gr/en/index.php>
- State Scholarship Foundation: <http://www.iky.gr/IKY/portal/en>

## **7. CERTIFICATION OF THE DIPLOMA SUPPLEMENT**

### **7.1 Date:**

**7.2 Name and Signature:** Prof. Athanasios Mitropoulos

### **7.3 Capacity: President**

### **7.4 Official stamp or seal:**

## **8. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM**

(i) Structure According to law 2916/2001, higher education consists of two parallel sectors: the University sector (Universities, Polytechnics, Fine Arts Schools and the Open University) and the Technological sector (Technological Education Institutions/TEIs and the School of Pedagogic and Technological Education).

The law 3549/2007 regulates issues concerning governance of higher education along the general lines of increased participation, transparency, accountability and increased autonomy.

The establishment of the International University of Greece aims at facilitating student mobility and increasing the number of places offered in higher education, especially to foreign students. This University will also offer distance learning courses.

The Hellenic Open University provides distance undergraduate and postgraduate education and adult education by developing and using appropriate educational materials and teaching methods.

There are also State Non-university Tertiary Institutes, such as the Higher Ecclesiastical School or the Merchant Marine Academies, offering vocationally oriented courses of shorter duration (2 to 3 years) which operate under the authority of other Ministries.

### (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, as described above (subsection 5.iv), 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 at Universities and TEIs 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, Metaptychiako Diploma Eidikefsis - equivalent to the Master's degree - and the third cycle leading to the doctorate degree, Didaktoriko Diploma.

Recent legislation on quality assurance in Higher Education, the Credit Transfer System and the Diploma Supplement define 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.

### (iv) Ongoing reforms and policy initiatives

Concerning the higher education, wide reforms take place regarding higher education and the Bologna Process. Law 3794/2009 harmonized the operation of the university and technological sectors of higher education and put at the same level Universities and Technological Education Institutions (TEIs)  
[http://eacea.ec.europa.eu/education/eurydice/documents/eurybase/national\\_summary\\_sheets/047\\_EL\\_EN.pdf](http://eacea.ec.europa.eu/education/eurydice/documents/eurybase/national_summary_sheets/047_EL_EN.pdf)

As a consequence of the classification of the education institutes, a title (school-leaving, certificate, degree etc.) is compulsory for the student at each education level in order to continue to the next. A detailed description of the Greek Education System is offered in: · EURYBASE ([http://www.eurydice.org/Eurybase/frameset\\_eurybase.html](http://www.eurydice.org/Eurybase/frameset_eurybase.html)) and · EURYDICE (<http://www.eurydice.org>) database of the European Education Systems.