



**EASTERN MACEDONIA AND THRACE INSTITUTE OF TECHNOLOGY
SCHOOL OF TECHNOLOGICAL ENGINEERING
DEPARTMENT OF PETROLEUM AND MECHANICAL 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.

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

- 1.1 Family name(s):**
1.2 Given name(s): M
1.3 Date of Birth (day/month/year): 04-03-1991
1.4 Student identification number or code (if available): m5277

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:
Mechanical Engineering
2.3 Name and status of awarding institution:
Eastern Macedonia and Thrace Institute of Technology
Technologiko 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:

Students graduate after having successfully accumulated 240 ECTS credits

The curriculum of the Department complies with Decision No. 87486/E5/2006 of the Ministry of Education (Greek National Gazette 1417/Issue B/26.9.2006). It covers a broad range of topics from many facets of modern applied mechanical engineering science, that encompass the areas of research, design, development, construction, operation, maintenance, production and manufacturing, including power production and management systems, with respect to economic awareness, environmental and social acceptance issues and aspects.

Upon completion of the course, graduates will have acquired all the necessary scientific & engineering knowledge and skills that will give them the opportunity to professionally practice in all mechanical engineering areas, either as self-employed or as managers or executives, in relevant enterprises and organizations.

More specific, a graduate of the Mechanical Engineering Department, will acquire, in brief, skills and capabilities to allow him/her to:

- Apply modern scientific and engineering methods and techniques in designing, supervising and managing the construction and operation of mechanical installations in buildings (e.g. space heating, cooling, air-conditioning, ventilation, rational use of energy, energy conservation, fire protection, sound-proofing, natural gas systems, lifts, etc).
- Design, develop, maintain and supervise the safe operation of working and rotating equipment, combustion systems, pressurized equipment, steam and power generation installations, refrigeration systems, pumping and pneumatic systems, lifting and conveying systems, cutting & other machine tools, vehicle inspection and, in general, of all industrial installations, production and manufacturing systems.
- Design, develop, install, operate & maintain power production systems using renewable energy sources, along with environmental protection, pollution abatement and waste management systems.
- Apply modern scientific, engineering & administrative techniques in business analysis, planning and management, in project management, in product, process and equipment quality control & certification in testing laboratories and in quality, environmental, and health & safety management systems.
- Undertake and deal with all social, environmental and legal obligations and issues of manufacturing or construction companies, including those involved in power & energy production, in a local, regional, national or international level.
- Involve in applied research, design and development, in innovation, in designing lab tests and in analyzing and evaluating results, in all levels and in all fields of his specialty.
- Teach in schools and colleges, according to current legislation and area of his specialty.
- Continue studies in Universities in Greece or abroad, at a post-graduate level.
- Register under the Hellenic Contractors Board and Board of Advisors, regarding planning & construction.

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

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
M106	*Mechanical Engineering Drawing I	8.8	eight,eight	JAN.	2011	EXAM	4.0
PM101	*Introduction to Engineering Science	10.0	ten,zero	JAN.	2011	EXAM	4.5
PM102	*Engineering Mathematics I	7.0	seven,zero	JUNE	2011	EXAM	4.5
PM103	*Electrical Circuits and Applied Physics	6.4	six,four	JAN.	2012	EXAM	4.0
PM104	*General Chemistry	8.1	eight,one	JAN.	2011	EXAM	5.5
PM105	*Process Economics and Project Management	6.0	six,zero	JAN.	2013	EXAM	5.0
PM107B	*Introduction to Information Technology	8.0	eight,zero	JAN.	2011	EXAM	2.5
MX1910E-PP	Computer Aided Mechanical Drawing Applications I	10.0	ten,zero	JAN.	2011	EXAM	0.0
M205	*Structural Mechanics	5.0	five,zero	JAN.	2011	EXAM	7.0
M206	*Mechanical Engineering Drawing II	6.5	six,five	JUNE	2011	EXAM	5.5
PM201	*Physical Chemistry	8.9	eight,nine	JAN.	2011	EXAM	6.0
PM202	*Engineering Mathematics II	10.0	ten,zero	JAN.	2012	EXAM	3.0
PM203	*Materials Science	5.8	five,eight	JAN.	2012	EXAM	4.0
PM204	*Structured Computer Programming	9.0	nine,zero	JUNE	2011	EXAM	4.5
MX2900Θ_PP	German Language I	10.0	ten,zero	JUNE	2011	EXAM	0.0
M305	*Strength of Materials	6.6	six,six	JUNE	2011	EXAM	7.5
M306	Vehicle Mechanics	7.0	seven,zero	JAN.	2015	EXAM	5.5
PM301	*Thermodynamics	10.0	ten,zero	JUNE	2011	EXAM	4.0
PM302	*Fluid Mechanics I	5.2	five,two	JAN.	2013	EXAM	5.5
PM303	*Health and Safety regulations	7.0	seven,zero	JAN.	2013	EXAM	4.5

Code	Subject Title	Grade	Examination Period	ECTS
ΠΜ304	*Computer Aided Design and Drafting	9.6 nine,six	JUNE 2012	EXAM 3.0
M406	*Fluid Mechanics II	7.0 seven,zero	JUNE 2013	EXAM 6.0
ΠΜ401	*Control Systems	6.2 six,two	JUNE 2013	EXAM 5.0
ΠΜ402	*Heat Transfer	8.6 eight,six	JAN. 2012	EXAM 6.0
ΠΜ403	*Chemistry and Technology of Fuels	7.5 seven,five	JUNE 2014	EXAM 4.0
ΠΜ404	*Environmental Protection	9.2 nine,two	JAN. 2013	EXAM 4.0
ΠΜ405	*Mechanical and Natural Gas Installations	8.0 eight,zero	JAN. 2013	EXAM 5.0
M503	*Machine Elements I	8.5 eight,five	JUNE 2012	EXAM 7.5
M504	*Road Accident Investigation	7.0 seven,zero	JAN. 2013	EXAM 5.0
M505	*Heating Technology	7.4 seven,four	JUNE 2012	EXAM 6.5
ΠΜ501	*Measurement Systems	7.6 seven,six	JUNE 2011	EXAM 5.0
ΠΜ502	*Renewable Energy Systems	5.8 five,eight	JAN. 2014	EXAM 6.0
MX5100E-ΠΡ	*Occupational Health & Safety – Technical Legislation	8.0 eight,zero	JAN. 2013	EXAM 0.0
MX55A0E_ENE	*– Industrial Motion Systems	10.0 ten,zero	JAN. 2013	EXAM 0.0
M602	* Hydrodynamic Engines	10.0 ten,zero	JUNE 2013	EXAM 6.0
M603	*Metallic Constructions	6.5 six,five	JUNE 2014	EXAM 6.0
M604	*Management of Renewable Energy Systems	7.6 seven,six	JUNE 2013	EXAM 6.0
M605	*Mechanical Workshop	7.3 seven,three	JAN. 2012	EXAM 6.5
ΠΜ601	*Transport and Storage of Liquid Fuels	8.6 eight,six	JUNE 2012	EXAM 5.5
M702	*Machine Elements II	10.0 ten,zero	JAN. 2013	EXAM 5.0
M703	*Manufacturing Design	5.0 five,zero	JUNE 2013	EXAM 7.5
M704	*Internal Combustion Engines	7.8 seven,eight	JUNE 2012	EXAM 6.5
ΠΜ701	*Technical English	6.5 six,five	JUNE 2012	EXAM 4.5
M705B	*Toolmachines	8.3 eight,three	JAN. 2013	EXAM 6.5
MX75Γ0-ΠΡ	*Entrepreneurship	8.5 eight,five	JAN. 2014	EXAM 0.0
M705A	*Building Energy Management	5.5 five,five	JAN. 2014	EXAM 0.0
ΠΜ801	Internship	Succ.		10.0
ΠΜ802	Dissertation	10.00 ten,zero	12/1/2014	EXAM 20.0
TOTAL ECTS CREDITS				240.0

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: «WIRE ELECTRIC DISCHARGE MACHINE (WEDM). OPERATION-OPPORTUNITIES-EVULUATING CASE STUDIES»

The internship has been conducted at PRIVATE COMPANY

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

At least a grade of 5.0 is required for the successful completion of a course.

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

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

- K (ID:m5277)

Grade Average: 7.73 - Very Good - SEVEN AND SAVENTY THREE 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) :

Engineering Technologies - Mechanical Engineering

For more information: <http://md.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:

- Eastern Macedonia and Thrace Institute of Technology, dept. of Mechanical Engineering:
<http://md.teikav.edu.gr>
- 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>

DEPARTMENT OF PETROLEUM AND MECHANICAL ENGINEERING:

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Telephone: 0030-2510-462143

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7. CERTIFICATION OF THE DIPLOMA SUPPLEMENT

7.1 Date: 16/11/2015

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

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