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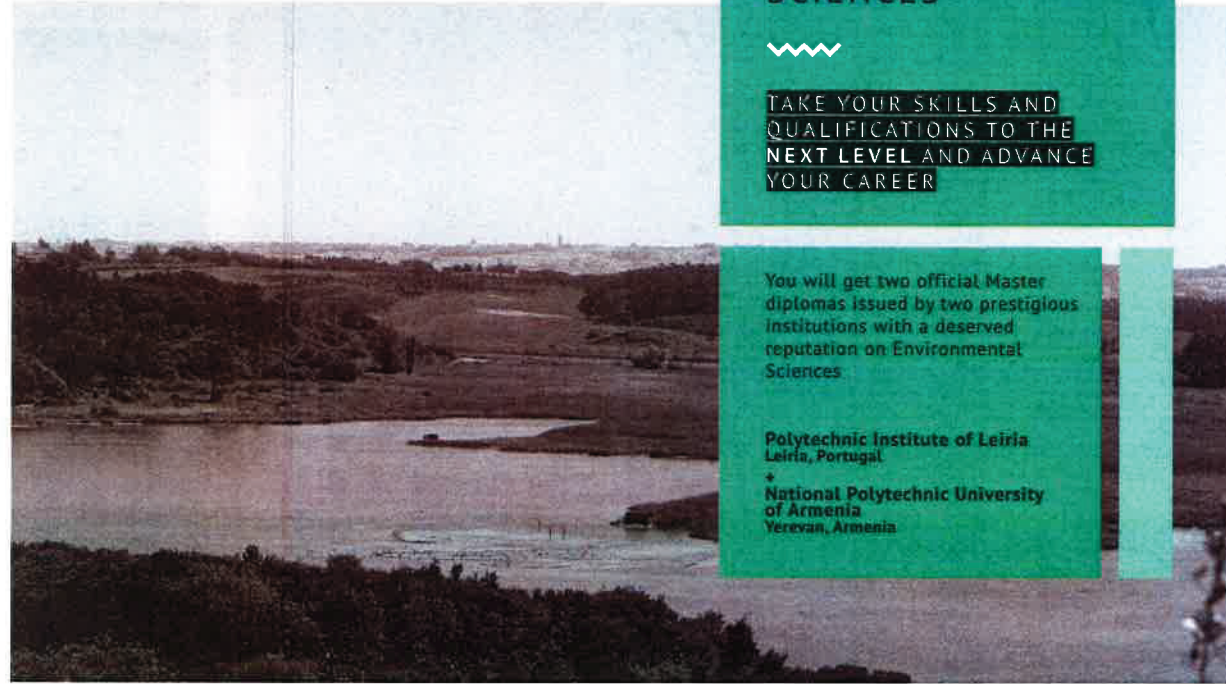
**DOUBLE MASTER  
DEGREE IN  
ENVIRONMENTAL  
SCIENCES**



**TAKE YOUR SKILLS AND  
QUALIFICATIONS TO THE  
NEXT LEVEL AND ADVANCE  
YOUR CAREER**

**You will get two official Master  
diplomas issued by two prestigious  
institutions with a deserved  
reputation on Environmental  
Sciences**

**Polytechnic Institute of Leiria  
Leiria, Portugal**  
+  
**National Polytechnic University  
of Armenia  
Yerevan, Armenia**



This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.  
Project number: 544178-TEMPUS-1-2013-1-PT-TEMPUS-JPCR

## WHY SHOULD I CHOOSE TO STUDY THIS DOUBLE MASTER DEGREE?

Double Master Degree in Environmental Sciences, offered jointly by the Polytechnic Institute of Leiria (IPL) in Portugal and National Polytechnic University of Armenia (NPUA) in Republic of Armenia, gives students the appropriate skills necessary to improve their opportunities to develop a professional career in the current evolving global environment.

Double Degrees are the ultimate level of cooperation among higher education institutions within the global education scenario and this Master offers you training according to the highest European academic standards, together with the most international and intercultural tools needed for success in our globalized world. It has the advantages of being versatile, flexible and improve opportunities in careers and networking.

## WHAT WILL I GET AFTER FINISHING MY STUDIES?

You will get two official Master diplomas issued by two European prestigious institutions:

> **Master degree in Energy and Environmental Engineering** by Polytechnic Institute of Leiria (IPL), Portugal;

> **Master degree in Environmental Protection (in power engineering)** by National Polytechnic University of Armenia (NPUA), Republic of Armenia.

This program will provide you with technical and scientific skills to the level of renewable energy, energy efficiency and environmental technologies associated with the management of water, air, waste, noise and transport. Are still conferred on the areas of energy and environmental policies, in its dimensions ecological, social, economic and technological developments, with a view to promoting sustainable development and management.



## WHAT DO I NEED TO ENROL?

The Double Master Degree in Environmental Sciences is designed for students and professionals with different scientific backgrounds such as biology, chemistry, environmental health and several branches of Engineering.

The basic prerequisite is to hold an undergraduate Degree from a European Higher Education Area (EHEA) university or equivalent from a non-EHEA university with access to Master Degrees in their own academic systems.

At least you have to accredit a B1 English level to enrol.

MASTER IN ENERGY AND ENVIRONMENTAL ENGINEERING  
+  
MASTER IN ENVIRONMENTAL PROTECTION (IN POWER ENGINEERING)

SEPTEMBER - JULY  
4 SEMESTERS  
120 ECTS

## STUDY PROGRAMME

### Students from NPUA

Semester	Curricular unit
1 (NPUA)	Science history and methodology
	Foreign Language
	Information technology
	Mathematics
	Elective Chair 1
	Scientific seminar
2 (IPL)	Research Work
	Research Internship
	Final Thesis Completion
	Electives Chair 2

3 (NPUA)	Electives Chair 3
	Influence of technical water supply systems of TPP and NPP on environment

3 (NPUA)	Economics and prediction of nature management
	Estimation of water resources use in power engineering
	Energy saving and power management
	Scientific seminar
	Research Work
	Final Thesis Completion
3 (NPUA)	Radiation Safety Basics
	Environmental impact assessment
	Human ecology

3 (NPUA)	Scientific seminar
	Research Work
	Final Thesis Completion
	Elective chairs 1 (NPUA): one of the following chairs

Elective chairs 1 (NPUA): one of the following chairs	Environmental problems of fuel combustion
	Ecological problems of power systems
	Actual problems of nuclear power plants radioactive waste storage

Elective chairs 2 (IPL): two of the following chairs	Water Quality Management
	Waste Management
	Energy and Environment in Transports

Elective chairs 3 (IPL): two of the following chairs	Rational Use of Energy
	Heating, Ventilation and Air-Conditioning Systems
	Renewable Energies Technology

### Students from IPL

Semester	Curricular unit
1 (IPL)	Decision and Optimization Methods
	Thermofluids
2 (NPUA)	Electives Chairs 2
	The ecological legislation and law problems of environmental engineering protection

2 (NPUA)	Environmental impact assessment
	Influence of technical water supply systems of TPP and NPP on environment

3 & 4 (IPL)	Estimation of water resources use in power engineering
	Energy saving and power management
	Radiation Safety Basics
	Elective Chair 1

3 & 4 (IPL)	Dissertation or Internship or Project*
	Elective chairs 3 (NPUA): one of the following chairs

Elective chairs 3 (NPUA): one of the following chairs	Environmental problems of fuel combustion
	Ecological problems of power systems
	Actual problems of nuclear power plants radioactive waste storage

Elective chairs 2 (IPL): two of the following chairs	Environmental Management Policies
	Energy Policy and Sustainable Development
	Evaluation of Environmental Parameters
	Air Quality Management