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**Reform of Education Thru
International Knowledge exchange**



**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



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International Knowledge exchange**



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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 (IPLeiria), 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 |
| | Research Work |
| Research Internship | |
| Final Thesis Completion | |

| | |
|--------------|--|
| 2 (IPLeiria) | Electives Chair 2 Electives Chair 3 |
|--------------|--|

| | |
|-------------------------|---|
| 3 (NPUA) | Influence of technical water supply systems of TPP and NPP on environment |
| | 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 |

| | |
|----------|-------------------------|
| 3 (NPUA) | Human ecology |
| | Scientific seminar |
| | Research Work |
| | Final Thesis Completion |

| 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 (IPLeiria): two of the following chairs |
|---|
| Water Quality Management |
| Waste Management |
| Energy and Environment in Transports |

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

Students from IPLeiria

| Semester | Curricular unit |
|--------------|-----------------------------------|
| 1 (IPLeiria) | Decision and Optimization Methods |
| | Thermofluids |
| | Electives Chairs 2 |

| | |
|----------|---|
| 2 (NPUA) | The ecological legislation and law problems of environmental engineering protection |
| | Environmental impact assessment |

| | |
|------------------|---|
| 2 (NPUA) | Influence of technical water supply systems of TPP and NPP on environment |
| | Estimation of water resources use in power engineering |
| | Energy saving and power management |
| | Radiation Safety Basics |
| Elective Chair 1 | |

| | |
|------------------|--|
| 3 & 4 (IPLeiria) | Dissertation or Internship or Project* |
|------------------|--|

| 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 (IPLeiria): two of the following chairs |
|---|
| Environmental Management Policies |
| Energy Policy and Sustainable Development |
| Evaluation of Environmental Parameters |
| Air Quality Management |