



An EU Tempus project on:
**Curriculum reform
and modernization of
Ecology Engineering
based on
Nanotechnology
in Azerbaijan**



THE PROJECT

ECONANO is an EU Tempus project concerning Ecology Engineering and Nanotechnology in higher Education.

This **European Project** involves **9 partners** in **4** different **Countries** to promptly respond to the impact of the intensive development of the oil industry and other industrial sectors.

OBJECTIVES

The main objective of the project is to modernize the existing curricula in the Ecology Engineering (EE) area in Azerbaijan by introducing further advanced courses, in particular on the production of nanostructured materials and their applications to environmental protection and monitoring.

The changes will concern the EE master programme. Adjustments to the bachelor programme will also be designed, in order to ensure their consistency with the new master courses.

The objective is to adapt the EE education in Azerbaijan in order to respond to the impact of the intensive development of the oil industry and other industrial sectors.



Harmonization of the Higher Education (HE) programmes on EE between AZ and EU will also be pursued.

The establishment of double/joint degrees among EU and Azerbaijan HE institutions, within the project objectives, will be the way to maintain the collaboration with the partner universities in the future.

ACEE - ADVANCED COURSE ON ECOLOGY ENGINEERING

ACEE is an advanced course which will be implemented at Baku State University to check on site the new modules to be introduced in Azerbaijan for the modernization of the Master Course on Ecology Engineering.

All modules are addressed to face the main pollution problems in Azerbaijan.

The first part of the course will consist of 6 front-end (lecture) modules and 3 laboratory modules:

- Nanostructured material for ecological applications
- Photocatalysis to reduce water and air pollution
- Site remediation by advanced processes
- Membrane technology
- Water and air purification by adsorption
- Environmental monitoring
- Lab on production of nanostructured materials for photocatalytic applications
- Lab on membrane technology
- Lab on environmental monitoring

The second part of the course will consist in a three months stage hosted by one of the EU partners.

PARTNERS

All the university partners offer education in ecology engineering area, and most of them are engaged in the application of nanotechnology for the environmental treatment and monitoring of quality of air and water.

SAPIENZA UNIVERSITY OF ROME	ITALY
SAPIENZA INNOVAZIONE	ITALY
UNIVERSITY OF PARIS 13	FRANCE
UNIVERSITY OF PATRAS	GREECE
BAKU STATE UNIVERSITY	AZERBAIJAN
AZERBAIJAN UNIVERSITY OF ARCHITECTURE AND CONSTRUCTION	AZERBAIJAN
QAFQAZ UNIVERSITY	AZERBAIJAN
AZECOLAB	AZERBAIJAN
MINISTRY OF EDUCATION OF AZERBAIJAN	AZERBAIJAN

SAPIENZA UNIVERSITY OF ROME

Dept. of Chemical Engineering
Materials Environment

PROJECT COORDINATOR
Prof. Luca Di Palma
Via Eudossiana, 18
00184 Rome - ITALY

E-mail: luca.dipalma@uniroma1.it

BAKU STATE UNIVERSITY

Dept. of Chemical Physics
of Nanomaterials

AZ CONTACT POINT
Prof. Maxammadali Ramazanov
E-mail: mamed_r50@mail.ru



www.tempuseconano.eu

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