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European Commission

TEMPUS

**Creation of
university-enterprise
cooperation networks
for education on sustainable
technologies
-TechnoSustainable-**

**course
SUSTAINABLE
TECHNOLOGIES**

www.techno-sus.com

Project number:
158989-TEMPUS-1-2009-BE-TEMPUS-

Participants in the Project

Katholieke Hogeschool Sint-Lieven
Gent, Belgium

University of Novi Sad
Faculty of Technology
Novi Sad, Serbia

Trier University of Applied Sciences
Environmental Campus Birkenfeld
Institute for Applied Material Flow
Management
Birkenfeld, Germany

Vienna university of Technology
Faculty of Technical Chemistry
Institute of Chemical Engineering
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COURSE

SUSTAINABLE TECHNOLOGIES

The course gives necessary knowledge for establishing sustainable technology systems.

DEFINITION OF SUSTAINABILITY

„Sustainability means meeting the needs of the present without compromising the ability of future generations to meet their own needs.“

ZERO EMISSION CONCEPT

The current linear model of development has proven to be unsustainable. This approach results in depletion of resources and the accumulation of waste. Zero emissions concept, like in nature, provides closed circle processes and therefore reduces the emission of mass and energy in the environment to a minimum, ideally zero.

Sustainable technologies courses have been created in the framework of the Tempus project Tempus 158989-Tempus-1-2009-1-BE-Tempus-JPHES “Creation of university-enterprise cooperation networks for education on sustainable technologies”, and is intended preferably to the staff from the industry who are involved in the sustainability process. Graduate students interested in the matter are also welcome.

GENERAL COURSE

1. Zero emission concept
2. Environmental sustainability and industry
3. Legislation
4. Sustainable technologies
5. Renewable energy resources
6. Energy efficiency of the technology processes

SPECIFIC COURSES

7. Sustainable technologies in Food industry
8. Sustainable technologies in Pharmaceutical and cosmetic industry
9. Sustainable technologies and Chemical engineering
10. Sustainable technologies and Materials engineering