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

Presentation of the Project
D-r Vineta Srebrenkoska, assist. prof.
University Goce Delcev - Stip
Faculty of Technology
Participants

UNIVERSITES

- Katholieke Hoge school Sint-Lieven
- Trier university
- Vienna university

- University of Novi Sad
- University of Nis
- Tuzla University
- University of East Sarajevo
- University of Cyril and Methodius
- University Goce Delcev

- Corvinus university, individual expert
- Wroclaw university of Technology, individual expert

CHANBER OF COMMERCE

Chamber of commerce East-Flandria,
Chamber of economy of Vojvodina,
Regional chamber of commerce RS,
Chamer of commerce Bijeljina
Chamber of commerce canoton Tuzla
Economic chamber of Macedonia

COMPANIES

- Alltech-Fermin
- Vegafruit
- Birac
- BOMEX
- EUROKOMPOZIT
Problems related with projects

- The level of waste in Macedonia is very high taking into account the low level of economic development that result in the pollution of air, lands and water.

- It is a fact that the industrial staff is not properly educated and has a lack of knowledge concerning sustainable development.
Do not fall asleep
Objectives

- Improving the university-enterprise cooperation on **sustainable development** in the industry of WB partner countries according to EU standards;

- **Acceptance** of the new course programmes for **improving the level of knowledge** of the staff from industry by the participating enterprises;

- Implementation of the newly developed courses for the staff from industry;
Specific Objectives

- To provide new curricula on sustainable industry for the staff from industries involved in the project;

- To have an experience from EU partners on sustainable industry in new developed curricula;

- To bring the knowledge of the staff from industry closer to the standards in EU partner countries;

- To set up the strategy for education of the staff from the industry on sustainable industry issue.

- New developed curricula for the industry;

- Part of the curricula based on EU experiences;

- Examine the knowledge of the staff from industry after the courses;

- Strategy for education of the staff from industry on sustainable development.
1. Review and analyse the existing knowledge of the staff from industry on sustainable industry;

2. Retrain the staff from WB partner universities;

3. Develop new curricula for the staff from industry of RS, BA and MK on sustainable industry;

4. Implement the newly developed curricula for the staff from industry;

5. Increase the link with enterprises;

6. Increase the links between WB partner country universities;

7. Increase the links between WB partner country universities and EU country universities;
Retraining session will be structured according to the following framework:

1. Experience with enterprise-university cooperation
2. State of the industries concerning sustainability
3. Practical examples of zero emission industries
4. Lectures concerning the topics of the course
5. Teaching methods for adults
6. First course scheme
Course development

It is planned to create 4 courses with the following common topics:

1. Concept of sustainability related to society, especially industry
2. Zero emission technologies
3. Material and energy flow management in industry
4. Case studies
5. Zero emission of material or/and energy in selected industry.

All 4 courses will have the same first 4 topics. The 5th topic will be tailored to the specific needs of the industry it will be created for.

ECTS 6

Workload: 150 hours  Duration of courses: 3 - 4 months
Screening and analysing knowledge transfer from university to industry and formulation of the course scheme

**Outcome 1** Review and Analyse the existing Knowledge of the staff from Industry on Sustainable Industry Issue

**Activity 1.1** To inventories and analyze the status of knowledge in industry regarding the topics of the course
Thanks for your attention