



Hungary-Serbia
IPA Cross-border Co-operation Programme

Tentative curricula of the module „ Environmental management ”



The project is co-financed by the
European Union

Good neighbours
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common future ✓

BSc programs in the Faculty of Engineering



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- BSc in Food Engineering**
- BSc in Technical manager**
- BSc in Mechanical engineering**
- BSc in Food industrial and agricultural Mechanical engineering**
- BSc in Economical and Rural Engineering**
- BSc in Informatical and Administration Agricultural Engineering**



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The aim of training

- Vocational training for the students competent in the field of food engineering
- Training helps them to be possessed the knowledge which is necessary to solve the environmental problems in the course of their work.

BSc programs and environmental subjects in the Faculty of Engineering

- ❑ **BSc in Food Engineering**
 - ❑ Environmental management in Food Industry (2 credits)
- ❑ **BSc in Technical manager**
 - ❑ Environmental Techniques (4 credits)
- ❑ **BSc in Mechanical engineering**
 - ❑ Basics of the environmental Engineering (2 credits)
- ❑ **BSc in Food industrial and agricultural Mechanical engineering**
 - ❑ Basics of the environmental Engineering (2 credits)
- ❑ **BSc in Economical and Rural Engineering**
 - ❑ Environmental management (2 credits)
- ❑ **BSc in Informatical and Administration Agricultural Engineering**
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- **There are relatively few subjects in the topic of environmental management during undergraduate education**
- **Graduated engineers often need more knowledge about environmental problems and environmental management**
- **The planned course/module is created for undergraduate students**
- **The subjects of the course may be elected as optional subjects**
- **Result of the fulfillment of the course: Certificate**



Curriculum of Environmental management module

	The subject	Credit	Semester
Elective subjects			
1	Basics of Environmental protection	2	4
2	Environmental Engineering	2	4
3	Waste Management	2	5
4	Legislation and environmental management	2	5
5	Energy management	2	6
6	Case Studies in the Practice of the Environmental Management	2	6





Subjects of semester 4

I. Basics of the environmental protection

Environment, pollution of the environment, the aim and tools of environmental protection

Global environmental problems, food and population growth, global climate change, world models

Natural resources: soil, water and air

II. Environmental techniques

- Environment and techniques, the environmentally friendly technologies
- The world's energy
- Pollution of the soil, water and air:
 - the origin of pollution
 - techniques of the detection of pollutants
 - prevention of the contamination





Subjects of semester 5

III. Waste Management

The condition of waste management in Hungary, regulation

Collecting, storage, recycling wastes, the concept to avoid wastes

Environmental management methods and techniques to decrease the amount of wastes

IV. Legislation and Environmental Management

- Basis of environmental management
- Eco-balances
- Life-cycles
- Companies environmental policy
- Concepts of environmental audit
- Methodology and regulation of environmental audit





Subjects of semester 6

V. Energy management

- Methods of energy auditing, tools and measurement units in the energy management
- Energy sources and energy carrier
- Company's energy management

VI. Case studies in the Practice of the Environmental Management

- Practical problems in the field of environmental protection
- Collecting of information, details of environmental economy, relations in production and environment
- Economical resource management, cost in practice





Result of the course

Engineers who

- have the basic erudition of environmental protection
- know the main environmental problems of the industry
- know the main environmental techniques
- capable to form the environmental policy of the company, to manage the environmental problems of the company.





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Thank you for your kind attantion!



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