Study program: Environmental Protection

Course title: Energy Efficiency

Professor/assistant: Boban Cvetanović

Type of course: compulsory

ECTS credits: 6

Pre-requisites: -

Aims of the course:

Prepare students to: master energy efficiency issues in various fields of human activity (from energy production to consumption) and to familiarize themselves with legal and regulatory regulations in this field, evaluate the rational use of energy and energy management.

Learning outcomes:

Student will be able to: use knowledge and skills in the field of efficient use of energy in different areas of human activity.

Syllabus

Theoretical part

The concept and importance of energy efficiency. Energy situation in RS - Energy balance. Legislative and legal regulations of the Republic of Serbia in the field of energy efficiency. Energy efficiency in the production, transmission and distribution of electricity. Energy efficiency in industry. Energy efficiency in traffic. Energy Efficiency in households - Specific measures for energy conservation. Energy-efficient use of alternative and renewable energy sources.

Practical part

Application of theoretical knowledge in solving concrete practical examples with the necessary instructions for solving certain types of tasks.

Literature

1. Ministarstvo za energetiku, razvoj i zaštitu životne sredine Republike Srbije, Zakon o efikasnom korišćenju energije, Beograd, 2013.
2. D. Marković, Procesna i energetska efikasnost, Univerzitet Singidunum, Beograd, 2010.
3. D. Gvozdenac, B. Gvozdenac-Urošević, Z. Morvaj, Energetska efikasnost - Industrija i zgradarstvo, FTN izdavaštvo, Novi Sad, 2012.

Number of active classes			Other forms of teaching:
Lectures: 2	Practical classes: 2	Research work:	

Teaching methods

Combined, interactive with case studies from practice.

Grading system (maximum 100 points), **grading scale** from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.

Pre-exam obligations	**points**	**Final exam**	**points**
activity during theoretical lectures	**-**	written exam	**30**
practical training	**5**	oral exam	**-**
colloquium(s)/seminar papers	**45/20**		
Sum	**70**	**Sum**	**30**