|  |  |
| --- | --- |
| Course: | *Economic Effects of Using Renewable Energy Resources*  |
| Course id: 2MRR2I43 |
| Number of ECTS: 5 |
| Teacher: | Vladislav N. Zekić, Nedeljko LJ. Tica, Dragan Milić |
| Course status | Elective |
| Number of active teaching classes (weekly) |
| Lectures: 2 | Tutorials: 2 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None |
| 1. Educational goal

Introducing students to the basics of making and controlling investment project and business plans.  |
| 1. Educational outcomes

Candidates will be capable of making and controlling investment project and business plans. |
| 1. Course content

*Theoretical Instruction*Sources of biomass available for energy production; Possibilities for energy exploitation of biomass; Direct combustion of biomass; Biomass briquetting; Biomass gasification; Biogas production; Biodiesel production; Production of bioethanol.Analysing economic justification for using crop residues as an energy source; The method of cost calculation; Identification of certain categories of costs; Cost calculation of using power machines and implements; Depreciation costs; Interest costs on used assets; Maintenance and repair costs for power machines and implements; Operating costs; Costs of storage for power machines and implements; Insurance costs for power and auxiliary machines; Costs of taxes, fees and other costs of using power machines and implements; Calculation of costs of materials; Calculation of labour costs; Costs of salaries for full-time employees; Cost of wages for seasonal workers.Assessing economic effects of using straw of small grains for energy; The place of crop residues in the system of environmental protection; Prospects of using crop residues as an energy source.*Practical Instruction*Study research workMaking cost calculations |
| 1. Teaching methods

Traditional lectures and seminar papers. |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Points | Final exam  | Points |
| Lecture attendance | 15 | *Oral exam* | 30 |
| Practical work | 15 |  |
| Seminar papers | 40 |
|  |  |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Zekić, V., Tica, N. | Ekonomska opravdanost korišćenja žetvenih ostataka kao izvora energije *(monograph)* | Poljoprivredni fakultet Novi Sad | 2010 |
|  | Ilić, M. isar | Energetski potencijali karakteristike ostataka biomase i tehnologije za njenu pripremu i energetsko iskorišćenje u Srbiji *(study)* | Institutzanuklearnenauke “Vinča” | 2002 |
|  | Krmpotić, T. isar. | Menadžmentpoljoprivrednihmašina | UniverzitetuNovomSadu, EkonomskifakultetSubotica | 1997 |
|  | Marko, J., Jovanović, M., Tica, N. | Kalkulacijeuproljoprivredi | Poljoprivrednifakultet, NoviSad | 1998 |