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| Course: | *Agrogeology* |
| Course id: 3МЗИ1И12 |
| Number of ECTS: 6 |
| Teacher: | Milivoj Belic, PhD, full professor; Ljiljana Nesic, PhD, associated professor; Vladimir Ciric, PhD, assistant professor  |
| Course status | Elective |
| Number of active teaching classes (weekly) |
| Lectures: 2 | Practical classes: 2 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None |
| 1. **Educational goal** of the course is acquiring knowledge about minerals and rocks as a basis for genesis of soil.
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| 1. **Educational outcomes** of the course are education and training of students for professional and scientific work in the field of soil science and plant nutrition.
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| 1. **Course content**

Theoretical lessons:Introductory lecture: rocks and minerals as the basis for the education of landEarth, genesis, characteristics and composition: Hypotheses on the origin of the Earth; The internal composition of the Earth and the division of the geosphere. Elemental composition of the earth's crust, the physical properties of the EarthMinerals: Genesis of minerals and their physical and chemical properties. The main mineral groups: primary minerals, minerals and minor accessory ingredients rocks, secondary minerals, minerals are of special importance for soil, rocks and minerals that are introduced into the soil in order to increase its fertility.Fundamentals petrography: Types of rocks, their composition and division. Igneous, sedimentary and metamorphic rocks. The disintegration of rocks and minerals and their importance in the education soilBasis endodinamike: Magma movement, tectonic movement, Seismism, metamorphism, important hypotheses about movements in the lithosphereBasis Egzodynamics: Geological work of sea water, lake water, river water, wind, glaciers, in the creation of relief. Karstic erosion and the role of gravity in the creation of relief.Most important terms of historical geology: The geological chronology, methods for determining the age of rocksBasis Hydrogeology |
| 1. Teaching methods

Lectures, Practice/ Practical classes, Consultations, study  |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam (izabrati) | Mandatory | Points |
| Lecture attendance | Yes | 5 | *Theoretical part of the exam* | Yes | 30 |
| Exercise attendance  | Yes | 5 | *Oral part of the exam* | Yes | 30 |
| Colloquium  | Yes | 10 |  |
| Seminar paper | Yes | 20 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Kukin A., Hadžić V., Nešić LJ., Belić M.  | Agrogeologija, | Poljoprivredni fakultet, Novi Sad | 2007 |
|  | Kostić N. | Agrogeologija | Izdavačka kuća «Draganić» Beograd | 2000 |
|  | Okiljević V., Marković M.  | Pedologija, knjiga II, Agrogeologija- Silvogeologija | Univerzitetski udžbenik, Banja Luka | 2005 |
|  | Robert E. White | Principles and Practice of Soil Science | Blackwell publishing, Fourth edition | 2006 |
|  | Chris Pellant | Rocks, Minerals & Fossils of the World | Pan Macmillan London | 1990 |

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| Znak univerziteta | UNIVERSITY OF NOVI SADFACULTY OF AGRICULTURE 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 8 | Znak fakulteta2 |
| Study Programme AccreditationMASTER ACADEMIC STUDIES: SOIL SCIENCE AND PLANT NUTRITION |
| Table 5.2 Course specification |