

Study program: Ecological agriculture			
Type and level of study: Master academic studies			
Course Title: Methods of research in agrobiotechnology			
Teachers: Dr. Jovanović B. Ljubinko, full professor and Dr. Dejana M. Panković, full professor			
Status: Obligatory, semester I			
ECTS: 6			
Prerequisite: None			
The goal of course To enable students to understand the problem, hypothesis, using appropriate methods and equipment in experiments, analysis of results by using appropriate software and literature and presentation in the form of papers, term papers, etc. Introduction to laboratory equipment used in agricultural research.			
The outcome of the course -Multidisciplinary approach to understanding and defining the research course -Understanding the importance of using a detailed literature review -Using different databases -Understanding the importance and identification of the basic hypothesis -Understanding and use of appropriate methodology in experimental work -Adequately presenting the results of research -Usage of laboratory and field equipments for various agricultural research -Biostatistic methods in research			
Syllabus <i>Theoretical study</i> – The basic characteristics of scientific research. The standard scientific method. Experimental methods. Hypothesis, the subject of the experiment, the realization of experiments, analysis of results. Interpretation of results, agreement with the hypothesis, compliance with national and international literature. Standardization of the term, and other measures. Searching the database. Software for statistical analysis of the results. Software for the graphical presentation the results. Introduction and work on different laboratory equipment as well as field equipment used in agriculture. <i>Practical classes</i> - Setting the experiments, conducting experiments, books, choice of methods, setting experiments, collecting the results, analysis of results with appropriate software, statistical processing, presentation of the results, the order of writing using appropriate literature, presentation of work.			
Literature Kimball Nill. (2013): Glossary of Biotechnology and Agrobiotechnology Terms. CRC Press Kothari CR (2004) Research methodology, methods and techniques, New Age Inetrnational Publishers, New Delhi, India, ISBN (13):978-81-224-2488-1, pp 1-401. Lawal, Bay (2014): Applied Statistical Methods in Agriculture, Health and Life Sciences. Ed. Springer			
Number of lectures: 4			Other Classes
Lectures: 2	Practices: 2	Other forms of teaching:	
Teaching methods: Lectures, discussions with students, experimental exercises, preparation and public defense of practical applied work. Score (maximum 100 points)			
Pre-exam commitments	Points	Final exam	Points
Activity during lectures	10	Written exam	20
Practical classes	10	Oral examination	30
Colloquia	10		
Seminars	20		
<i>Total</i>	50		50