Course Unit Descriptor

Study Programme: Soil, plant and genetics
Course Unit Title: The Utilization of Genetic Resources
Course Unit Code: 19MZBGO01I005
Name of Lecturer(s): dr Sofija R. Petrović; dr Borislav M. Banjac
Type and Level of Studies: Master academic studies, second degree academic studies
Course Status (compulsory/elective): elective
Semester (winter/summer): winter
Language of instruction: Serbian
Mode of course unit delivery (face-to-face/distance learning): face-to-face
Number of ECTS Allocated: 5
Prerequisites: none
Course Aims: Aim of this course is to introduce students to concepts such as biodiversity, processes that lead to its jeopardizing and erosion, as well as with steps of biodiversity preservation and use value of genetic variability, especially in spontaneous and local plant populations.
Learning Outcomes: : Student who has finished utilization of genetic resources master course will be enabled to further upgrade his knowledge through PhD studies in direction of preservation (stocktacking, collecting and preserving) genetic variability, as well as scientific and expert work in preserving and using biodiversity.
Syllabus: *Theory* **1.) What are genetic resources. 2.) Biodiversity (definition and vulnerability). 3.) Agricultural plants centers of origin. 4.) Biodiversity erosion. 5.) Revitalization of genetic variability. 6.) Genetic collections in strategy of preserving genetic variability. 7.) Gene banks. 8.) Collecting genotypes. 9.) Use of genetic variability in agriculture. 10.) Creating biodiversity preservation politics. 11.) Revial presentation** *Practice* Exercises, other forms of classes, academic experimental work. Practice exercise takes place during exercise programe and follows lecture chapters.
Required Reading: Borojević, S.: Principi i metodi oplemenjivanja bilja. Ćirpanov, Novi Sad, 1981 Prosperi, J. M., Guy, P., Bafourier, F., Ressources génétiques des plantes fourragères et à gazon. INRA, Paris, 219, 1996

Weekly Contact Hours:	**Lectures:** 45	**Practical work:** 30

Teaching Methods: Teaching is conducted with use of modern technology, theoretical part of lectures is taking place in faculty classrooms. All lectures are computer processed and presented. Practical part of lectures is taking place in cabinets equipped with climate control units, with individual seats for students (40 seats), classrooms are equipped with PC, projector, overhead projector and microscopes.

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
Active class participation	5	written exam	30
Practical work	2.5	oral exam	30
Preliminary exam(s)	3x10	…….	

Seminar(s)	2.5		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			