	Course title: PLANT GENETIC RESOURCES				
Course code	Subject Status	Semester	ECTS credits	Number of hours	
291106100	Obligatory	II	4	3L + 1E	

The course is organized for: Academic basic studies of agriculture, Stady program Crop production								
(studies last for 6 semesters, 18 ECTS credits)								
Prerequisites: No prerequisites required								
Course aims: The cours aims to provide students with knowledge about the importance of								
biodiversity a	biodiversity and agro-biodiversity as its most important component, as well as introduce students to							
the possibility and the need for conservation and sustainable use of plant genetic resources for food								
and agriculture								
The name of the teacher and assistant: Prof. Dr. Zoran Jovović								
Teaching method: Lectures, exercises, laboratory exercises, field activities, seminar papers								
consultations	and others.							
WORK PLA	<u>N:</u>							
Preparatory w	reeks	Preparation and semester enrollment						
Week 1	Lectures	Introductory remarks; Biodiversity; The importance of agro- biodiversity						
	Exercises	Inventory and collection of plant genetic resources						
Week 2	Lectures	Basic data on Montenegrin agriculture						
	Exercises	Conservation of the collected plant material						
Week 3	Lectures	State of plant genetic resources in Montenegro; The existing						
		collection						
	Exercises	Regeneration of the deposited plant material						
Week 4	Lectures	Legislation and other relevant documents related to plant genetic resources						
	Exercises	Laboratory exercises						
Week 5	Lectures							
Week 5	Exercises	Laboratory exercises						
Week 6	Lixerenses	The program on conservation of plant genetic resources in						
Week o	Lectures	agriculture						
	Exercises	Laboratory exercises						
Week 7	Lectures	Inventory and collection of plant genetic resources; Passport data						
	Exercises	TEST 1						
Week 8	Lectures	Plant Gene Bank						
	Exercises	Characterization and evaluation of conserved samples						
Week 9	Lectures	In situ conservation; On farm conservation						
	Exercises	Assessment of agronomic traits						
Week 10	Lectures	COLLOQUIUM 2						
	Exercises	Montenegrin plant gene bank - a system of functioning						
Week 11	Lectures	<i>Ex situ</i> conservation						
	Exercises	Field collection of plant genes						
Week 12	Lasturas	Characterization and evaluation of accessions by applying modern						
	Lectures	methods; Descriptors						
	Exercises	On farm conservation						
Week 13	Lectures	Information and documentation system; Database						
	Exercises	Documentation						
Week 14	Lectures	Sustainable use of genetic resources for food and agriculture						
	Exercises	Database						
Week 15		Strengthening the public awareness about the importance of						
	Lectures	preserving agro-biodiversity; National and international						
		organizations involved in the conservation and sustainable use of						
		genetic resources for food and agriculture						
	Exercises	TEST 2						
Week 16		FINAL EXAM						
Week 17		Semester verification and enrollment rating						
Weeks 18-21		Additional lessons and corrective exam						

Obligations of students	Students are required to attend classes and all other planned activities						
during classes:	and actively participate in making set tasks within the group						
Student workload in hours:							
Weekly:		During the semester:					
6 credits $x 40/30 = 8$ hours		Teaching and the final exam: 8 hours $x = 128$					
Structure: 2 hours of lectures, 1	hour of	hours					
exercises and 5 hours of student	work including	Necessary preparation (before semester					
consultations	C	administration, enrollment and verification): 2 x 8					
		hours = 16 hours					
		Total hours for the course: $6 \times 30 = 180$ hours					
		Additional work: 36 hours					
		Structure:					
		128 hours (lectures) + 16 hours (preparation) + 36					
		hours (additional work)					
Recommended literature:							
- Salgotra, R.K. and Zarga	ar, S.M. (2020):	Rediscovery of Genetic and Genomic Resources for					
Future Food Security, S	pringer						
- Salgotra, R.K. and Gupt	a, B.B. (2016): I	Plant Genetic Resources and Traditional Knowledge					
for Food Security. Sprin	for Food Security. Springer						
- M. Penčić (2005): <i>Biljni</i>	genetički resurs	<i>i</i> (izabrani radovi), Beograd					
- Z. Jovović, D. Stešević,	- Z. Jovović, D. Stešević, V. Meglič, P. Dolničar (2013): Old potato varieties in Montenegro.						
University of Monteneg	University of Montenegro, Biotechnical faculty Podgorica						
- FAO (2012): Conservati	on and sustainal	ble use under the International treaty, Rome					
- FAO (2010): The second	d report on The s	tate of the world's plant genetic resources for food					
and agriculture, Rome							
Additional literature:	ulles D.V. Ford	Lloud I. France I. Luisnada, M.A.A. Dinksing da					
- N. Maxted, M. Ensan D	ulloo, B.V. Ford-	-Lloyd, L. Frese, J. Irlonado, M.A.A. Pinneirode					
and landrages CARL U	Carvalho (2011): Agrobiodiversity conservation, securing the diversity of crop wild relatives						
L Clowelte E Purhenn	K, CADI, USA	(1004): A guide to the convention on high-giad					
- L. Olowaka, F. Burlenn diversity IUCN Gland	- L. GIOWAKA, F. BURNENNE-GUIIMIN, H. SYNGE (1994): A guide to the convention on biological diversity HICN Cland Switzerland and Combridge LIV						
Knowledge testing and grading	5 witzerianu anu						
- Presence 5 poi	∍• nts						
- Colloquium 2 x 1	5. total 30 points						
- Test 10 po	ints						
- Seminar paper 15 pc	ints						
- Final exam 40 po	ints						
The student passed the exam	if cumulatively	collected 50 points					
Learning outcomes:		•					
After successfully passing the ex	am student will	be able to:					
- recognize the importanc	- recognize the importance of biodiversity and the potential that Montenegro has in this area						
- understand the impact of	- understand the impact of agricultural production on biodiversity						
- apply knowledge in the	- apply knowledge in the field of management, access and sustainable use of plant genetic						
- understand the functioning of the system of plant gene bank							
- to contribute to raising t	- to contribute to raising the public awareness about the importance of plant genetic resources						
- contribute to their conservation and sustainable use							
Teacher who provided the information: Prof. Dr. Zoran Jovović							
e-mail: zoran.jovovic.btf@gmail.com							