Erasmus Course Catalogue of Undergraduate Study of Mediterranean Agriculture and Master's Degree Programme Mediterranean Agronomy Academic Year 2025./2026.

Course (ENG)	Course (CRO)	Hours (Lecture+Seminar+ ECTS Exercise+Fieldwork)		Semester	Study Programme	Course Teacher
Introduction to Agrobiotechnical Science	Uvod u agrobiotehničke znanosti	20-0-0	2	Winter	Undergraduate Study of Mediterranean Agriculture	Vedran Poljak
Basics of Winemaking	Osnove vinarstva	30-0-0	3	Winter	Undergraduate Study of Mediterranean Agriculture	Leo Gracin
Basics of Viticulture	Osnove vinogradarstva	24-0-6-0-0	3	Winter	Undergraduate Study of Mediterranean Agriculture	Tatjana Klepo Tomislav Svalina
Organic and Integrated Production	Ekološka i integrirana proizvodnja	20-4-0-6	3	Winter	Undergraduate Study of Mediterranean Agriculture	Pavao Gančević
Mediterranean Food	Mediteranska hrana	30-0-0-0	3	Summer	Undergraduate Study of Mediterranean Agriculture	Vedran Poljak
Olive Growing	Maslinarstvo	20-0-5-5	3	Summer	Undergraduate Study of Mediterranean Agriculture	Frane Strikić
Viticulture Practice 1	Vinogradarska praksa I	12-9-0-30	4	Summer	Undergraduate Study of Mediterranean Agriculture	Tatjana Klepo Tomislav Svalina
Management and Entrepreneurship in Agriculture	Menadžment i poduzetništvo u poljoprivredi	40-14-6-0	6	Summer	Undergraduate Study of Mediterranean Agriculture	Josip Gugić
Landscape Design	Uređenje krajobraza	20-30-0-30	6	Summer	Undergraduate Study of Mediterranean Agriculture	Boris Dorbić
Course (ENG)	Course (CRO)	Hours (Lecture+Seminar+ Exercise+Fieldwork)	ECTS	Semester	Study Programme	Course Teacher
Biodiversity of the Mediterranean	Bioraznolikost Mediterana	25-5-20-0	5	Winter	Master's Degree Programme Mediterranean Agronomy	Tatjana Klepo
Mediterranian Wildlife Animal Species Population	Divlje populacije mediteranskih životinjskih vrsta	20-15-0-0	3	Winter	Master's Degree Programme Mediterranean Agronomy	Pavao Gančević
Invasive Harmful Organisms	Invazivni štetni organizmi	20-15-10	5	Summer	Master's Degree Programme Mediterranean Agronomy	Mario Bjeliš Ivan Tavra

Undergraduate Study of Mediterranean Agriculture

Course Catalogue

NAME OF THE COURSE INTRODUCTION TO AGROBIOTEHNICAL SCIENCE								
Code	MPO1		Year of st	tudy	first			
Course teacher		ate professor edran Poljak	Credits (E	ECTS)	3			
Associate teachers			Type of ir	nstruction	L	S	Е	F
Associate teachers				of hours)	20			
Status of the course	manda			n of e-learning				
		COURSE	DESCRI	PTION				
	- the co	ntemporary socioec as the historical dim	onomic co	ntext of agro-ec	onomic (orientati	-	′,
Course objectives	global Croatia - termii	integration processon society. nological determinar	es and th	ne significance	of agro	-econon	nic activ	
	- forms	stribution-consumer chain forms of strategic linkage and organization of production and business in agriculture. the basis of human nutrition, requirements for food safety						
	and foo	and food security, food quality control, regulations and business ethics.						
Course enrolment requirements and entry competences required for the course	none	none						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	stu rec mo rec soc exp exp	After passing the exam in the Introduction to Agrobiotechnical Sciences module, students will be able to: recognize current social processes and understand the consequences of modernization on life in villages and peasantry recognize the impact of globalization on agroeconomic activities in Croatian society explain the importance of science in agriculture in modern society explain the importance of science in agriculture for the development of villages in						
Course content broken down in detail by weekly class schedule (syllabus)	their environment 1. History of agriculture in the Mediterranean. Rural space and modernization. (2 hours) The new identity of rural areas and farmers in the context of global integration. (4 hours) 2. Characteristics and types of business entities and family farms. Business functions and modern forms of organizational structure (4 hours) 3. Relationships between and within factors of production. (2 hours) 4. Concept, purpose, goals and planning systems. (2 hours) 5. Competition and quality in the promotion and processing chain of agricultural and food products. (2 hours) 6. Basics of food sustainability and food safety with ethical foundations (4 hours)							
Format of instruction	⊠ lectu □ semi □ exer	inars and workshops	;	□ independent □ multimedia □ laboratory	assignn	nents		

Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course) Grading and evaluating student work in class and at the final exam Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit examples of the submission of exit ensure the acquisition of exit examples of the submission of exit examples of each attendance attend								
Student responsibilities Students are required to attend classes (lectures, seminars and exercises) and actively participate in the teaching process, which will be evaluated in the final assessment by the weight coefficient of 0.1 (10%). Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course) Grading and evaluating student work in class and at the final exam Frequired literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Oquality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes to) In equality of teaching will be monitored by collecting feedback from student survey by filling out an evaluation questionnaire. Student will be used to improve the quality of teaching in the next academic year. Other (as the proposer wishes to)			•					
Student responsibilities Screening student actively participate in the teaching process, which will be evaluated in the final assessment by the weight coefficient of 0.1 (10%). Class actively participate in the teaching process, which will be evaluated in the final assessment by the weight coefficient of 0.1 (10%). Class activity so that the total number of ECTS credits is equal to the ECTS value of the course) CGrading and evaluating student work in class and at the final exam The final grade for the course includes the grade from the written exam and the grade from the oral exam. COptional literature (available in the library and via other media) Coptional literature (at the time of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of submission of study programme proposal) Coptional literature (at the sum of s		•	ning		□ (othe	er)		
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Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course) Grading and evaluating student work in class and at the final exam Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences Activity participate in the teaching process, which will be evaluating process, which will be evaluated in the library of 0.1 (10%). Research Practical training Process, which will be evaluated in the library of 1.1 (Other) Report (Other) Essay Seminar Essay (Other) Fests 1 Oral exam 1,5 (Other) Written exam Project (Other) Activity participate in the teaching process, which will be evaluating the proposer wishes to open and sessent by the weight coefficient of 0.1 (10%). Research Practical training Process, which will be evaluated in the library of 1.1 (Other) Report (Other) Practical training Process, which will be evaluating the exam period. Other (as the proposer) Actively participate in the teaching process, which work in cache factors of the semester. Seminar essay (Other) Project (Other) Active proposer wishes to protect experimental work in the library (Other) Project (Other) Active proposer wishes to process and active project work in the library and during the semester. Students who pass with a positive grade will have a noral exam during the exam period. The final grade for the course includes the grade from the written exam and the grade from the outsements who pass with a positive grade will have a noral exam during the exam period. The final grade for the course includes the grade from the written exam and the grade from the exam period. The final exam of the course and exam will be analyzed, and the information collected will be used to improve the quality of teaching in the next academic year.	Student		-		•		•	
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Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes to	Required literature	1. Lectures in p				=	other media	
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Quality assurance methods that ensure the acquisition of exit competences of the semester, the evaluation of the course and teachers will be carried out through an anonymous student survey by filling out an evaluation questionnaire. Student performance in the final exam will be analyzed, and the information collected will be used to improve the quality of teaching in the next academic year.	(available in the library and via other media)		odf format			=	other media	
proposer wishes to	(available in the library and via other media) Optional literature (at the time of submission of study programme	Agriculture stra HAZU: A Thous Sali, Split): Cro EC: From farm	odf format tegy until sand Yea atian Aca to fork .p	2030. pdf rs of the First demy of Scien df.	ces and Arts,	the library shing in Croatia Zagreb.	a (1995; Zagreb,	
	(available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	Agriculture stra HAZU: A Thous Sali, Split): Cro EC: From farm The quality of te personal consu of the semester an anonymous performance in	atian Aca to fork .p. eaching w ultations, or, the eval	2030. pdf rs of the First demy of Scien df. ill be monitored discussions an uation of the c survey by filli exam will be a	d by collecting d questions a ourse and tea ng out an eva	shing in Croatia Zagreb. feedback from sked during clachers will be calluation question the information	a (1995; Zagreb, students through sses. At the end rried out through onnaire. Student	

NAME OF THE COU	IE OF THE COURSE Basics of Winemaking						
Code			Year of study	2.			
Course teacher	Leo Gr	acin Ph.D	Credits (ECTS)	3			
Associate teachers			Type of instruction	L	S	Е	F
Associate teachers			(number of hours)	30	0	0	0
Status of the course	Elective	Э	0				
		COURSE	DESCRIPTION				
Course objectives	overall and wir product taste, s	financial importance ne brands. Students tion. Get to know the mell and color of wir	ne production through the of production and through will get to know the basic sechemical composition of the. gal framework important for	n the mo stages a wine and	st impor and proce d its influ	tant varion edures of lence on	eties of wine

	Τ					1
Course enrolment requirements and entry competences required for the course						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After successfully completing the course, the student will be able to: - Describe the history of winemaking - Explain the main varieties and the most important wine "brands" (labels) of Croatia - Explain the main varieties and the most important wine "brands" in the world - Describe the basic styles of wine - Explain the chemical composition of wine - Explain the technology for the production of white, rosé and red wines - Explain the basic sensory methods of wine quality assessment - Explain the basic methods of wine analysis - Explain the importance of enological agents and corrections of the chemical composition of wine					
Course content broken down in detail by weekly class schedule (syllabus)	Introduction, history of winemaking, 2 P Winemaking of the world with an emphasis on the EU and Croatia 2 P Chemical composition of grapes and wine and the main "styles" of wine 4 P Wine production technology, fermentation and production equipment 2 P The importance of microorganisms in wine production 2 P Red wine and rose wine production technology, emphasis on maceration 3 P White wine production technology 2 P Chemical analyzes of grape and wine ingredients 4 P Must and bean corrections, importance of additives in wine production 2 P Wine stability 2 P Sensory assessment of wine quality 2 P Legislation in wine production 2 P					
Format of instruction	□ lectures □ seminars and □ exercises □ on line in ent □ partial e-lear □ field work	tirety	ops	☑ independen☑ multimedia☐ laboratory☐ work with m☐ (other	entor	
Student responsibilities	Attendance at I anticipated hou				of at least 70%	of the
Screening student	Class attendance	1,3	Research		Practical traini	ng
work (name the proportion of ECTS credits for each	Experimental work		Report		Independent work (Other)	0,3
activity so that the total number of	Essay		Seminar essay		(Other)	
ECTS credits is equal to the ECTS	Tests	0.9	Oral exam	0,5	(Other)	
value of the course)	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Two colloquiums will be organized during the course. The condition for joining the second colloquium is a positive assessment (min. 60%) of the first colloquium. The overall grade is obtained through the percentage of points from the two colloquia. Students can obtain a grade through a written exam during the exam period. The student can improve the grade achieved in the exam or colloquium by one grade in the oral exam. Assessment criteria: 60%-70% sufficient; 71%-80% good; 81%-90% very good; 90%-100% excellent.					
Required literature (available in the library and via other	Horiovoo Storile		Title	Nakladai	Number of copies in the library	Availability via other media
media)	Herjavec Stanka, Vinarstvo, Zagreb : Nakladni zavod Globus, 2019					

	Lecture materials (available on the study website)		
Optional literature (at the time of submission of study programme proposal)	R. Jackson "Wine science", Academic press, 2000 Riberau-Gayon, P., D., Dubourdieu, B., Doneche, A., I enology-The microbiology of Wine and Vinification, Vo Riberau-Gayon, P., D., Dubourdieu, B., Doneche, A., I enology-The Chemistry of Wine, Stabilization and Tre Volume 2, Paris	olume 1, Paris Lonvaud (2006	S): Handbook of
Quality assurance methods that ensure the acquisition of exit competences	 Keep attendance attendance records Annual analysis of successful exams Student survey in order to evaluate teachers Self-evaluation of teachers 		
Other (as the proposer wishes to add)			

NAME OF THE COU	IRSE	Basics of Viticult	uro					
Code		VIV2 Prof. Tatjana	Year of study	3				
Course teacher	Klepo,	PhD	Credits (ECTS)	3				
	Tomisla	av Svalina, MSc	Type of instruction	L	S	Е		F
Associate teachers			(number of hours)	24		6	T	
Status of the course	Manda	tory	Percentage of application of e-learning					
	-	COURS	E DESCRIPTION	3				
Course objectives	function Acquiri with en	ns ng knowledge on p vironmental condition	ative and generative organ physiological processes of tons and practical knowledge in g	the grap	evine ar	nd int		
Course enrolment requirements and entry competences required for the course								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 Ex Ide An Assest Ev 	Identify generative organs of the grapevine Analyze environmental conditions for grapevine cultivation Assess basic limitations and advantages of particular sites for vineyard establishment Evaluate characteristics of rootstocks and grape varieties						
			Topic		L	S	Р	
	History	of grapevine cultiv	ation, domestication, taxon	omv	2	•	•	
Course content			I function of vegetative orga	-	2		2	
broken down in		re and function of و	-		2		_	
detail by weekly			l phenological stages		2			
class schedule		. , .,			2			
syllabus) Environmental conditions for viticulture					_			
(Syllabus)	Specif	ics of ecological gra	pevine growing		2			

	Basics of pruni vineyard	ing and c	anopy manag	gement in a frui	t-bearing	2	2
	Rootstocks	Rootstocks					
	Grape varieties	Grape varieties					
	Grape ripening	Grape ripening and chemical composition					
	Harvesting					2	
Format of instruction	 ☑ lectures ☐ seminars and workshops ☑ exercises ☐ on line in entirety ☐ partial e-learning ☐ field work ☐ independer ☐ multimedia ☐ laboratory ☐ work with n ☐ (otherwise) 			nentor			
Student responsibilities	Minimum 80%	attendand	ce in lectures	and practicals.			
Screening student work (name the	Class attendance	1,5	Research		Practical train	ing	
proportion of ECTS credits for each	Experimental work		Report		Independent work		1
activity so that the total number of	Essay		Seminar essay		(Other))	
ECTS credits is equal to the ECTS	Tests		Oral exam	0,25	(Other))	
value of the course)	Written exam	0,25	Project		(Other))	
Grading and evaluating student	• 15% pa	idividual v articipatio	work on and engage	ement in lecture			
work in class and at the final exam	Final g assess	sed. Two	e determined	after the cours ds are held. T	nt in pra se is completed he final exam	d and	d knowledge
work in class and at	Final g assess	grades are sed. Two t) is both	e determined exam period	after the cours ds are held. T	se is completed	d and (for	d knowledge
work in class and at	Final g assess conten	grades are sed. Two t) is both	e determined exam period written and o Title Toglan Kont	after the coursels are held. Tral.	Number of copies in the library	d and (for	d knowledge non-passed
work in class and at the final exam Required literature (available in the library and via other	Final g assess conten	grades are sed. Two t) is both	e determined exam period written and o Title Toglan Kont	after the coursels are held. Tral.	Number of copies in the library	d and (for	d knowledge non-passed
work in class and at the final exam Required literature (available in the	Final g assess conten	grades are sed. Two t) is both	e determined exam period written and o Title Toglan Kont	after the coursels are held. Tral.	Number of copies in the library	d and (for	d knowledge non-passed
work in class and at the final exam Required literature (available in the library and via other	Final g assess conten	grades are sed. Two t) is both	e determined exam period written and o Title Toglan Kont	after the coursels are held. Tral.	Number of copies in the library	d and (for	d knowledge non-passed
work in class and at the final exam Required literature (available in the library and via other	Final g assess conten	grades are sed. Two t) is both	e determined exam period written and o Title Toglan Kont	after the coursels are held. Tral.	Number of copies in the library	d and (for	d knowledge non-passed
Required literature (available in the library and via other media) Optional literature	Final g assess content	i Karo, Nakladr	e determined exam period written and o Title roglan Kont ni zavod Glob	after the coursels are held. Tral. ic J. (2008 us, Zagreb	Number of copies in the library	Av.	d knowledge non-passed ailability via ther media
Required literature (available in the library and via other media) Optional literature (at the time of	Final g assess content Mirošević N. Vinogradarstvo Coombe B.G. a Ltd., Ashford, A	i Kar o, Nakladr	e determined exam period written and o Title roglan Kont ni zavod Glob	after the coursels are held. Tral. ic J. (2008 us, Zagreb	Number of copies in the library	Av.	d knowledge non-passed ailability via ther media
Required literature (available in the library and via other media) Optional literature	Final g assess conten	i Kar o, Nakladr and Dry P Australia General	e determined exam period written and o written and o Title Title Toglan Kont in zavod Glob P.R. (2008) Vitiviticulture, O	after the cours ds are held. T ral. ić J. (2008 us, Zagreb iculture Volume	Number of copies in the library Page 2 Practices, V	Av.	d knowledge non-passed ailability via ther media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme	Final g assess content Mirošević N. Vinogradarstvo Coombe B.G. a Ltd., Ashford, A Galet P. (2000) Mullins M.G., I University Pres Monitoring	i Kar b, Nakladr and Dry P Australia General Bouquet A ss of studer	e determined exam period written and o written and o Title Title Toglan Kont in zavod Glob P.R. (2008) Vit Viticulture, O A. Williams Left obligations	after the course as are held. Tral. ić J. (2008 us, Zagreb iculture Volume enoplurimedia E. (1992) Bi	Number of copies in the library 2 Practices, V	Av.	d knowledge non-passed ailability via ther media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that	Final g assess content Mirošević N. Vinogradarstvo Coombe B.G. a Ltd., Ashford, A Galet P. (2000) Mullins M.G., I University Pres Monitoring Annual stud	i Kar b, Nakladr and Dry P Australia General Bouquet A of studen dent satis	e determined exam period written and o writt	after the course are held. Trail. ic J. (2008 us, Zagreb iculture Volume enoplurimedia E. (1992) Birthy the instructorys	Number of copies in the library Paractices, Volume 2 Practices, Volume 2	Av. or Vinet	ailability via
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the	Final g assess content Mirošević N. Vinogradarstvo Coombe B.G. a Ltd., Ashford, A Galet P. (2000) Mullins M.G., I University Pres Monitoring Annual stude Exam ques	i Kar i Kar o, Nakladr and Dry P Australia General Bouquet A ss of studen dent satis stions mu	e determined exam period written and o writt	after the course are held. Trail. ic J. (2008 us, Zagreb iculture Volume enoplurimedia E. (1992) Birthy the instructorys	Number of copies in the library 2 Practices, V	Av. or Vinet	ailability via
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that	Final g assess content Mirošević N. Vinogradarstvo Coombe B.G. a Ltd., Ashford, A Galet P. (2000) Mullins M.G., I University Pres Monitoring Annual stude reviewed a	i Kar by Nakladr i Kar by Nakladr and Dry P Australia General Bouquet A ss of studen dent satis stions munnually	e determined exam period written and o written and o Title Title Toglan Kont in zavod Glob P.R. (2008) Vit Viticulture, O A. Williams Left obligations sfaction surversel align with	after the course are held. Tral. ić J. (2008 us, Zagreb iculture Volume enoplurimedia E. (1992) Bi by the instructorys learning outcome	Number of copies in the library 2 Practices, V ology of grape or omes; one-third	Av. or	ailability via
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit	Final g assess content Mirošević N. Vinogradarstvo Coombe B.G. a Ltd., Ashford, A Galet P. (2000) Mullins M.G., I University Pres Monitoring Annual stude reviewed a	i Kar by Nakladr and Dry P Australia General Bouquet A of studen dent satis stions mu innually y Commit	Title Toglan Kontai zavod Glob P.R. (2008) Vit Viticulture, O A. Williams Lat obligations of action surveust align with	after the course are held. Tral. ić J. (2008 us, Zagreb iculture Volume enoplurimedia E. (1992) Bi by the instructorys learning outcome	Number of copies in the library Paractices, Volume 2 Practices, Volume 2	Av. or	ailability via

Vineyard tools and equipment	
Experimental winery and laboratory	

NAME OF THE COU	IRSE	Organic and Integ	rated Pro	duction						
Code	MEP I3	3	Year of st	udy	3					
Course teacher		prof. Pavao vić, PhD	Credits (E	ECTS)	3	3				
Associate teachers				nstruction of hours)	L 20	S 4	E	F 6		
Status of the course	Elective	Percentage of application of e-learning								
		COURSE	DESCRI							
Course objectives	cul Pro (gr	roduce students to the litivation in ecological ovide basic apevine/fruit/vegetable ferences and advantaits, and seminars.	and integr knowledgoles/ornam	rated plant produ ge on entals) in the	uction sy cultivati ese sys	rstems. on stems	of and hiç	plants ghlight		
Course enrolment requirements and entry competences required for the course	EnPaPro	rolment in the 3rd ye ssed course: Basics oduction ssed course: Basics	of Viticultu	ıre / Basics of P	omology	/ Basic	s of Vege	etable		
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After pa	 integrated agricultural production Identify advantages and disadvantages of various production systems (conventional-integrated-ecological), and recommend production paths, justifying the benefits of agrochemical-free production Describe and justify approved methods of soil cultivation, fertilization, and plant protection in ecological and integrated systems Explain the importance of ecological/integrated production for environmental protection and biodiversity conservation Explain standardization measures and labeling of eco-products 								
Course content broken down in detail by weekly class schedule (syllabus)	 Introduction, basic features and historical development of ecological/integrated production (2 L) Legal framework (1 L) Transition from conventional to eco/integrated farming (2 L) Ecological farming approaches (2 L) Soil as a key factor, soil management and fertilization (3 L) Variety/Species selection (1 L) Crop rotation (1 L) Plant protection (3 L) Harvesting, storage, packaging, labeling, and distribution (2 L) Ecological/integrated production of grapevine/fruit/vegetables/ornamentals (2 L) Economic aspects (1 L) Field visits (6 T) 									
Format of instruction	IectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectu<!--</td--><td colspan="5">Seminar presentations (4 S) □ lectures □ seminars and workshops □ exercises □ on line in entirety □ partial e-learning ☑ field work □ Independent assignments □ multimedia □ laboratory □ work with mentor □ (other)</td><td></td>	Seminar presentations (4 S) □ lectures □ seminars and workshops □ exercises □ on line in entirety □ partial e-learning ☑ field work □ Independent assignments □ multimedia □ laboratory □ work with mentor □ (other)								

	Attendance at l	ectures								
Student	Completed sem		anmente							
responsibilities	Attendance at f		giiiioiilo							
Screening student work (name the	Class attendance	1	Research	h Practical training						
proportion of ECTS credits for each	Experimental work		Report		(Other)					
activity so that the total number of	Essay		Seminar essay	0,25	(Other)					
ECTS credits is equal to the ECTS	Tests		Oral exam	0,75	(Other)					
value of the course)	Written exam	1	Project		(Other)					
Grading and evaluating student work in class and at the final exam	 Class p Semina Final ex Grading Scale <60% - 61–70% 71–80% 81–90% 	ance – 10 participatio ar prepara xam – 50	% of grade on – 10% ation and prese kam): ent (1) ient (2) (3) Good (4)	entation – 30%						
			Title		Number of copies in the library	Availability via other media				
	Kisić, I.: Uvod udžbenik, Sveu									
	Zagreb, 2013.	6). Ekolo	ška polioprivr	ljoprivreda, Nakladni						
	zavod Globus,	,	one pojopini							
Required literature (available in the library and via other media)	Igrc Barčić, Jas prihvatljiva zaši d. d.			•						
media	Tehnološke upute za integriranu proizvodnju poljoprivrednih proizvoda (2013). Zagreb: Ministarstvo poljoprivrede RH.									
	Ciglar, I. (1998). Integrirana zaštita voćaka i vinograda. Čakovec: Zrinski d. d.									
	Kisić, I.: Uvod u ekološku poljoprivredu, sveučilišni udžbenik, Sveučilište u Zagrebu Agronomski fakultet,									
	Zagreb, 2013.									
Optional literature (at the time of submission of study programme proposal)	Robert, S. (1999). Organic farming: methods and markets: an introduce to ecological agriculture. De Walter, L.F. (2005). Ecological Agriculture and Rural Development in Central and Eastern European Countries. IOBC Bulletin "Guidelines for Integrated Productions" odabrana područja poljoprivredne proizvodnje. Lind, K., Lafter, G., Schloffter, K., Innerhofer, G., Meister, H. (2003). Organic Fruit Growing, CABI Publishing.									
Quality assurance	Monitoring of st	udent obl	igations							
methods that ensure the	Annual student	survey o	n teaching qua	ality						
acquisition of exit competences	_	nnual student survey on teaching quality xam alignment with learning outcomes reviewed annually by program leadership nd the Quality Committee								

Other (as the	
proposer wishes to	
add)	

NAME OF THE COU	IRSE	Mediterranean Fo	od						
Code	MPI7		Year of s	tudy	third				
Course teacher		associate professor edran Poljak	Credits (F	ECTS)	3				
Associate teachers				nstruction of hours)	L 25	S	E	F 10	
Status of the course	electora	al	Percenta application	ge of on of e-learning					
		COURSE	DESCRI						
Course objectives	- the ro - the er - the da - plant a	Acquisition of the necessary knowledge and skills to understand: the role of macro and micronutrients in food for humans the energy and nutritional value of food and daily energy needs the dangers of food and undesirable food ingredients plant and animal species that are characteristic of the Mediterranean diet methods of food preparation characteristic of the Mediterranean diet							
Course enrolment requirements and entry competences required for the course	Comple	ompleted second year							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	to: ana ecc diff ass arg	analyze the types of food of animal and plant origin in the Mediterranean ecosystem differentiate the basic characteristics of the Mediterranean diet assess the dangers of food of Mediterranean origin argue and compare the value of Mediterranean food in relation to							
Course content broken down in detail by weekly class schedule (syllabus)	1. Macr 2. Micro (2 hour 3. Food (3 hour 4. Food prepara 5. Food hours) 6. Food 7. Food 8. Char 9. Food 10. Tox	continental 1. Macronutrients in food: Carbohydrates, proteins and fats (2 hours) 2. Micronutrients in food in plant and animal species in the Mediterranean ecosyst (2 hours) 3. Food of plant origin (fruit) characteristic of the Mediterranean and its preparat (3 hours) 4. Food of plant origin (vegetables) characteristic of the Mediterranean and preparation (3 hours) 5. Food of animal origin characteristic of the Mediterranean and its preparation hours) 6. Food of sea origin characteristic of the Mediterranean and its preparation (3 hours) 7. Food characteristic of the Mediterranean field exercises (10 hours) 8. Characteristics and pyramid of the Mediterranean diet (2 hours) 9. Food supplements originating from the Mediterranean ecosystem (2 hours) 10. Toxicology of food originating from the Mediterranean ecosystem (2 hours) 11. Nutritional and health claims for food originating from the Mediterranean						aration and its tion (3 hours)	
Format of instruction	⊠ lectu □ semi ⊠ exere	res nars and workshops cises ne in entirety al e-learning	;	□ independent □ multimedia □ laboratory □ work with media □ (other	entor	nents			

Student responsibilities	actively partici	tudents are required to attend classes (lectures, seminars and exercises) and ctively participate in the teaching process, which will be evaluated in the final ssessment by the weight coefficient of 0.1 (10%).						
Screening student work (name the	Class attendance	0,5	Research		Practical traini	ng		
proportion of ECTS credits for each	Experimental work		Report		(Other)			
activity so that the total number of	Essay		Seminar essay		(Other)			
ECTS credits is equal to the ECTS value of the course)	Tests	1	Oral exam	1,5	(Other)			
	Written exam		Project		(Other)			
Grading and evaluating student work in class and at the final exam	positive grade v The final grade	60-minute written exam will be held during the semester. Students who pass with a sitive grade will have an oral exam during the exam period. e final grade for the course includes the grade from the written exam and the grade m the oral exam.						
	Title				Number of copies in the library	Availability via other media		
Required literature (available in the	1. Lectures in p	odf format						
library and via other media)								
,								
Optional literature (at the time of submission of study programme proposal)	Patient (Practic	A. Capurso & G. Crepaldi: Benefits of the Mediterranean Diet in the Elderly Patient (Practical Issues in Geriatrics)21 Aug 2019 G. Mateljan. World healthiest Food, Znanje, Split, 2024.III Edition						
Quality assurance methods that ensure the acquisition of exit competences	The quality of teaching will be monitored by collecting feedback from students through personal consultations, discussions and questions asked during classes. At the end of the semester, the evaluation of the course and teachers will be carried out through an anonymous student survey by filling out an evaluation questionnaire. Student performance in the final exam will be analyzed, and the information collected will be used to improve the quality of teaching in the next academic year.							
Other (as the proposer wishes to add)								

NAME OF THE COU	RSE	Olive Growing						
Code	MEP II	14	Year of study	2				
Course teacher	Prof. Fr	ane Strikić, PhD	Credits (ECTS)	3				
Associate teachers			Type of instruction	L	S	Е	F	
Associate teachers			(number of hours)	20		5	5	
Status of the course	Manda	tory	Percentage of application of e-learning					
		COURSE	DESCRIPTION					
Course objectives		uire necessary know tion systems.	wledge and practical skill	s for ma	anaging	differen	t olive	
Course enrolment requirements and entry competences required for the course	Comple	eted course Basics o	f Pomology					

Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 Describe the Analyze age Describe te orchard Determine Apply agro- Use mechan 	Determine varietal composition for new olive plantations Apply agro-technical and pomotechnical operations in an olive orchard Use mechanization in olive production Differentiate between olive varieties depending on the end product							
Course content broken down in detail by weekly class schedule (syllabus)	History of olive Origin and bota Tree morpholo Structure and f Biology of olive Phenological c Olive response Olive varieties Olive propagat Site selection f Olive planting Agrotechnics for Physiology of c Irrigation of oliv Pomotechnical Olive tree rejuy Growing system	Olive propagation 1 Site selection for olive grove establishment 1							
Format of instruction	□ lectures □ seminars and □ exercises □ on line in ent □ partial e-lear ☑ field work	irety	pps	□ independe □ multimedia □ laboratory ⊠ work with r □ (oth	mentor				
Student responsibilities		rticipate. <i>I</i>			00% of practical and notical a				
Screening student work (name the proportion of ECTS credits for each activity so that the total number of	Class attendance Experimental work Essay	1,3	Research Report Seminar essay		Practical training (Other) (Other)	0,3			
ECTS credits is equal to the ECTS	Tests		Oral exam	1,4	(Other)				
Grading and evaluating student work in class and at the final exam	The subject maend of the seme Grading Scale: • <60% - • 60–70% • 70–80% • 80–90%	 <60% – Fail 60–70% – Sufficient (2) 70–80% – Good (3) 							

	Title	Number of copies in the library	Availability via other media				
Required literature	Fiorino, P. (2007) Olea Trato di olivicultura. Edagricolre. Bologna						
(available in the library and via other media)	Gugić, M., Šarolić, M. (2017) Maslina i proizvodi. Matica hrvatska, Sinj						
Optional literature (at the time of submission of study programme proposal)							
Quality assurance methods that	Monitoring student participation by the instructor Annual student survey on teaching quality						
ensure the acquisition of exit competences	Exam questions must align with learning outcomes; one-third of courses are reviewed annually by the program leader The Quality Committee reserves the right to assess exam alignment independently						
Other (as the proposer wishes to add)							

NAME OF THE COU	IRSE	Viticulture Praction	ce 1					
Code	MEP IV	/IV4	Year of study	2				
Course teacher	Assoc. Klepo,	Prof. Tatjana PhD	Credits (ECTS)	4				
Associate teachers	Tomisla	av Svalina, MSc	Type of instruction (number of hours)	L	S	E	F	
Status of the course	Manda	tory	Percentage of application of e-learning	12	9		30	
		COURSI	E DESCRIPTION					
Course objectives	To acqu	uire practical knowle	dge and skills in grapevine	cultivat	ion.			
Course enrolment requirements and entry competences required for the course	Comple	Completed course Basics of Viticulture						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After co	Prune grapevines Identify training sys Apply viticultural te Evaluate grape qua	chniques in a fruit-bearing	vineyard	i			
			Topic		L	SF		
Course content broken down in detail by weekly class schedule (syllabus)	Vineyard planning and planting Regionalization and classification of viticultural areas Terroir concept Vineyard internship: soil management, pruning, trellis systems				4 4 4	3 10 3 10		
		ord internship: canop ord internship: rootst	ocks, grape varieties, terro	ir		3 10		

Format of instruction	□ lectures □ seminars and □ exercises □ on line in ent □ partial e-lear ☑ field work	tirety	pps	☐ multimedia☐ laboratory☒ work with m				
Student responsibilities	Minimum 80% a	attendanc	e at lectures	and fieldwork is	s required.			
Screening student work (name the	Class attendance	0,5	Research		Practical trainin	g 2		
proportion of ECTS credits for each	Experimental work		Report		Independent work	0,4		
activity so that the total number of ECTS credits is equal to the ECTS	Essay		Seminar essay	0,5	(Other)			
	Tests		Oral exam	0,3	(Other)			
value of the course)	Written exam	0,3	Project		(Other)			
Grading and evaluating student work in class and at the final exam	70% pa15% se15% paFinal assessmeTwo exam date	 15% seminar work 15% participation in lectures inal assessment is determined after completion of teaching and knowledge testing wo exam dates are organized during the exam period. The final exam is written and 						
	oral.							
	oral.	7	Γitle		Number of copies in the library	Availability via other media		
Required literature (available in the	oral. Mirošević N. Vinogradarstvo	i Karo	oglan Konti	` '	copies in the library			
	Mirošević N.	i Karo	oglan Konti	` '	copies in the library			
(available in the library and via other	Mirošević N.	i Karo	oglan Konti	` '	copies in the library			
(available in the library and via other	Mirošević N.	i Karo	oglan Konti	` '	copies in the library			
(available in the library and via other media) Optional literature (at the time of submission of study programme	Mirošević N. Vinogradarstvo	i Karo , Nakladn and Dry P. ustralia	oglan Konti i zavod Globu R. (2008) Viti	us, Zagreb	copies in the library	other media		
(available in the library and via other media) Optional literature (at the time of submission of study	Mirošević N. Vinogradarstvo Coombe B.G. a Ltd., Ashford, A Galet P. (2000) Monitoring stud Annual student Annual review of The Quality Coalignment	i Karo, Nakladn and Dry P. ustralia General V lent obliga satisfaction of one-thirommittee	oglan Konti i zavod Globu R. (2008) Viti Viticulture, Ocations on surveys rd of courses retains the	culture Volume enoplurimedia to ensure align	copies in the library	netitles Pty ng outcomes exam content		
(available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit	Mirošević N. Vinogradarstvo Coombe B.G. a Ltd., Ashford, A Galet P. (2000) Monitoring stud Annual student Annual review of The Quality Coalignment	i Karo, Nakladn and Dry P. ustralia General V lent obliga satisfaction of one-thirommittee	oglan Konti i zavod Globu R. (2008) Viti Viticulture, Ocations on surveys rd of courses retains the	culture Volume enoplurimedia to ensure align	copies in the library	netitles Pty ng outcomes exam content		

NAME OF THE COU	RSE	MANAGEMENT AND ENTREPRENEURSHIP IN AGRICULTURE				URE	
Code			Year of study	II.			
Course teacher		Gugić, PhD, ate Professor	Credits (ECTS)	6			
Associate teachers				L	S	E	F

			Type of in (number of		40	14	6		
Status of the course	Mandatory		Percentag	je of n of e-learning					
		COUR	SE DESCRIF						
Course objectives	management to the family farm By acquiring the systems in agri production t	To prepare and enable students through proactive education for efficient use of management tools in planning, organization and analysis of business operations of the family farm and in entrepreneurial ventures. By acquiring theoretical and practical managerial knowledge and skills of production systems in agriculture and the economic aspect of individual branches of agricultural production to increase the competiveness of future university baccalaureus/baccalaurea in the modern labour market and knowledge economy.							
Course enrolment requirements and entry competences required for the course									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 explain ma describe th identify fac agricultural do calculat interpret the analyse the 	 describe the forms of production and business organization in agriculture, identify factors that have an impact on the technical and economic efficiency of agricultural production systems, do calculations of agricultural production, interpret the core financial statements and financial performance indicators, analyse the business of family farm, identify the core factors that characterise investment in agriculture and risk 							
Course content broken down in detail by weekly class schedule (syllabus)	Introduction to the course. Introducing students with the course content, the manner of passing the exam and the exam literature. (1L) Introduction to seminars. Instructions for development of the seminar work. Instructions for presenting the topic of the seminar work. (3S) Definition, structure and specificities of management and entrepreneurship in agriculture. (3L) Management and entrepreneurship functions in agriculture. (8L+2S) Production and business organisation in agriculture. (6L+2S) Production factors, business assets and production theory. (5L+1E+1S) Costs and calculation - theory and analysis. (5L+2E+2S) Business success and indicators of business success. (2L+2E+1S) Core financial statements and business analysis. (2L+1E+1S) Investment analysis and risk management in agriculture. (6L+1S)							r work.	
Format of instruction	□ lectures □ seminars and □ exercises □ on line in end □ partial e-lear □ field work	d worksho tirety ning	pps	rategies in agriculture. (2L+1S) ☐ independent assignments ☐ multimedia ☐ laboratory ☑ work with mentor ☐ (other)					
Student responsibilities	Students are r actively particil assessment by	oate in th	ne teaching p	rocess, which				•	
Screening student work (name the	Class attendance	0.6	Research		Practical	training			
proportion of ECTS credits for each	Experimental work		Report		(0	Other)			
activity so that the total number of	Essay		Seminar essay	1.2	(0	Other)			
ECTS credits is equal to the ECTS	Tests		Oral exam	2.1	(0	Other)			
value of the course)	Written exam	2.1	Project		(0	Other)			

Grading and evaluating student work in class and at the final exam	The final grade for the course is a weighted sum of marks presence and activities of students during their attendance of the course (weighting 0.1), evaluation of seminar work (weight 0.2), mark from the written exam (weight 0.35) and evaluation of the oral examination (weight 0.35). Written exam scores: <60% - inadequate (1), 60-70% - sufficient (2), 71-80% - good (3), 81-90% - very good (4), 91-100% - excellent (5). Written exams could be passed by two written partial exams during the course. The written part-time exam during the course is valid for the current academic year as a part of the written exam. A positively written exam is a condition for accessing an oral exam. Assessment of oral exam: <60% - inadequate (1), 60-70% - sufficient (2), 71-80% - good (3), 81-90% - very good (4), 91-100% - excellent (5). Number of copies in						
	Title		Availability via other media				
	Grgić, I., Franić, R., Cerjak, M., Mikuš, O., Hadelan, L., Mesić, Ž., Zrakić, M., Bokan, N. 2017. Priručnik iz agrarne ekonomike-Pojmovnik i osnovne metode. Sveučilište u Zagrebu, Agronomski fakultet i Hrvatsko agroekonomsko društvo, Zagreb	1					
Required literature (available in the library and via other	Jelavić, A., Ravlić, P., Starčević, A., Šamanović, J. 1993. Ekonomika poduzeća. Ekonomski fakultet, Zagreb	1					
media)	Karić, M., Štefanić, I. 1999. Troškovi i kalkulacije u poljoprivrednoj proizvodnji. Sveučilište Josipa Jurja Strossmayera, Poljoprivredni fakultet, Osijek	1					
	Majcen, Ž. 1988. Troškovi u teoriji i praksi, Školska knjiga, Zagreb	1					
	Sikavica, P., Bahtijarević-Šiber, F., Pološki-Vokić, N. 2008. Temelji menadžmenta. Školska knjiga, Zagreb	1					
	Škrtić, M., Mikić, M. 2011. Poduzetništvo. Sinergija, Zagreb	1					
Optional literature (at the time of submission of study programme proposal)	Grgić, Z., Par, V., Juračak, J., Njavro, M., Šakić, B. 200 Interna skripta. Veleučilište "Marko Marulić", Knin Kay, R. D., Edwards, W. M. 1999. Farm managemen USA Olson, K. 2004. Farm Management. Principles and USA Orsag, S., Dedi, L. 2011. Budžetiranje kapitala. Pro Masmedia, Zagreb Par, V. 2012. Menadžment i poduzetništvo u poljoprivru Zagrebu, Agronomski fakultet, Zagreb Rozman, Č., Turk, J., Pažek, K. 2009. Menedžment v Slovenj Gradec Žager, K., Tušek, B., Vašiček, V., Žager, L. 20 računovodstvo za neračunovođe. II. izdanje. Hrva financijskih djelatnika, Zagreb	strategies. Io Ocjena investic redi. Interna sk kmetijstvu. Kr	on. McGraw-Hill, wa State Press, cijskih projekata. cripta. Sveučilište metijska založba, računovodstva-				
Quality assurance methods that ensure the acquisition of exit	Quality assurance will be performed at two levels: Lecturer's Level.	(1) Universit	y Level and (2)				
ompetences Other (as the proposer wishes to add)							

Codo	DURSE LANDSCAPE DESIGN									
Code	MPIH1		Year of st	udy	3.					
Course teacher	Assoc.	prof. Boris Dorbić	Credits (E	CTS)	6					
Associate teachers	-		Type of in (number of		L 20	S 30	Е	F 30		
Status of the course	Izborni		` Percenta		10 %	30		30		
Otatus of the course	IZDOITII	COURCE	applicatio	n of e-learning						
	The ein	n of the course is to i			ovolope	ant and	contor	noron/		
Course objectives	principle environ location about the of extension	rinciples of landscape design, types of landscape areas, especially those in urbain invironments, as well as the relevant legislation. Based on general knowledge of the ecation, climate, and expected purpose of the landscape area, the aim is to learn bout the optimal use of dendrological species and other materials used in the design fexternal surfaces. Based on simpler landscape areas, the aim is to explain the tructure of the preparation of work quantities as well as the process of preparing a conceptual and main landscape design project, and its application in execution.								
Course enrolment requirements and entry competences required for the course	obligati hours require	ne requirements for enrollment are that students have duly fulfilled the prescribed oligations and have been present for at least 70% of the total number of teaching ours (lectures, seminars and fieldwork). Students who do not meet all the quirements for enrollment may re-enroll in the same course in the following cademic year.								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After passing the exam, students will be able to: • Distinguish between styles in landscape design • Define and distinguish between types of landscape areas in an urban environment • Describe the basic legal regulations and types of documentation within the profession of landscape design • Recognize, describe, and be able to apply dendrological species depending on the purpose, depending on the type of landscape area, location, and climate • Analyze and apply the main construction project when designing smaller landscape areas									
Course content broken down in detail by weekly class schedule (syllabus)	landscape areas						egion matia habitat habitat I house city area			

	⊠ seminars and	d worksho	ps	□ multimedia						
F	□ exercises			□ laboratory						
Format of instruction	☐ on line in ent	irety		☐ work with m	nentor					
ilistruction	□ partial e-lear	ning		□ (othe	er)					
	☑ field work									
0, 1, 1	Students are required to attend classes (lectures, seminars and exercises) and									
Student	actively particip	oate in th	ne teaching p	orocess, which	will be evalua	atec	I in the final			
responsibilities	assessment by	the weigh	nt coefficient	of 0.1 (10%).						
Screening student	Class	1.5	Research		Practical traini	na				
work (name the	attendance	1.5	Research							
proportion of ECTS	Experimental		Report		Terenska		1			
credits for each	work		Seminar		nastava					
activity so that the total number of	Essay		essay	1	(Other)					
ECTS credits is	Tests		Oral exam	2.5	(Other)					
equal to the ECTS value of the course)	Written exam		Project		(Other)					
Grading and	Aktivnost na na	stavi 10%	, D							
evaluating student	Prisustvovanje	terenskoj	nastavi 20%							
work in class and at	Prisustvovanje terenskoj nastavi 20% Kakvoća izrade seminarskog rada 30%									
the final exam	Usmena provje	ra znanja	40%							
					Number of	Δ.,	ailahilitu. via			
		-	Title		copies in		ailability via ther media			
							ther media			
	Obad - Šćitarod	ci,M., Hrva	atska parkovr	na baština,	1					
	(Zagreb: Školsl	ka knjiga,	1999).		1					
	Aničić, B. Korel	acija bora	avišnih kvalite	ta vrtnoga						
Required literature	prostora i njegovih strukturnih svojstava. Skripta									
(available in the	(Zagreb: Agronomski fakultet, 1997.)									
library and via other	Idžojtić, M.: De	ndrology:								
media)	Seeds (London									
	Elsevier - Acad									
	Polunin, O., Hu									
	Mediterranean.	`		. ,						
	Hannenbaum, I		-	a Practical						
	Approach, (Nev									
O-4:	Šišić, B., Dubro					•				
Optional literature (at the time of	Zavod za povijesne znanosti Hrvatske akademije znanosti i umjetnosti u									
submission of study	Dubrovniku,199	,		·	1 P C /NT	\	.			
programme	Van Der Zande		•	sign Theory and	a application (N	Y: L	Deimar			
proposal)	Cengage Learr	•	•	a Landon /Lar	ndani Daaraan	106	:0)			
	Rapopport, A., Monitoring the			•			•			
					is conducted a					
O!:h	subject study. V									
Quality assurance methods that	the plan is also				nmittee for impr	ovir	ng the quality			
ensure the	of teaching at s				. ,		-			
acquisition of exit	studies is oblig				earning outcom					
competences	compliance with									
	at the study of									
	assessment, to									
Other (as the										
proposer wishes to add)										

Master's Degree Programme Mediterranean Agronomy

Course Catalogue

General information						
Lead instructor	Tatjana Klepo, PhD, Assistant Professor					
Course name	Biodiversity of the Mediterranean					
Study programme	Mediterranean Agronomy					
Course status	Compulsory					
Year	1.					
Number of credits and mode of delivery	ECTS student workload coefficient	5				
	Number of hours (L+P+S) 25 + 20 + 5					

Course description

1.1. Course aims

The aim of the course is to introduce students to the fundamentals of evolution and the components of biodiversity in the Mediterranean region. It covers practical methods for the conservation and sustainable use of plant genetic resources, addresses the issue of genetic erosion, and explores conservation strategies, including the description and assessment of traits, and the importance of gene banks.

1.2. Course enrolment requirements

There is none.

- 1.3. Intended course learning outcomes
- Explain the principles of evolution.
- Identify the components of biodiversity in the Mediterranean region.
- Understand the strategies for conserving plant genetic resources.
- Learn the methods for assessing the traits of accessions.
- Determine the goals and tasks of gene banks.

1.4. Course content

- Introduction to the course 0.5 L
- Evolution and Adaptation Mechanisms 1.5 L
- Biocenosis and Biological Diversity 1 L, 2 P
- Basic Components of Mediterranean Biodiversity 1 L, 1 S, 1 F
- Protected Areas in the Mediterranean 1 L, 1 F
- Gene Centers of Origin for Cultivated Plant Species 1 L, 1 S
- Economically Important Plant Species by Region 1L, 1 S
- Importance of Biodiversity for Agricultural Development 1 L
- Plant Genetic Resources and Their Role in Plant Breeding 1 L, 1 P
- Reasons for Conserving Plant Genetic Resources 1 L
- Erosion of Plant Genetic Resources 2 L, 1 S
- Description and Assessment of Accession Traits 1 L, 1 P, 1 F
- Analysis of Plant Genetic Diversity at Agronomic, Morphological, and Genetic Levels 2 L, 1 S, 2 P, 2 F
- Inter- and Intraspecific Diversity 1 L, 1 P
- Methods and Techniques for Conserving Plant Genetic Resources 2 L, 1 P, 2 F
- Establishment, Goals, and Tasks of Gene Banks 2 L, 1 P
- Ex situ conservation 1 L, 1 P, 1 T
- In situ conservation 1 L, 1 P, 1 T
- Documentation information system at the national and international level 1 L, 1 P
- Role and tasks of the National Program for the Preservation of Plant Genetic Resources 1 L
- Legislative framework 1 L

1.5. Modes of delivery (mark the appropriate boxes with an X)	X lectures	independent work
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							nars and	multimedia	and
						worksho	•	network	
						X practi	remote	☐ laboratory ☐ supervision	
					learning				
					X field v			other	
						7			
1.6. Student obli									
Attend classes (lectures 80%, seminar classes, practics and field classes 100%) and actively participate in the teaching process. The above will be recorded and evaluated when making the final assessment.									
1.7. Monitoring s	tudent	work (mark the ap	propri	ate box	es with a	an X)			
Class attendance	Х	Participation in c	lass		Seminar paper		Х	Experimental work	
Written exam		Oral exam		Χ	Essay			Research	Х
Project		Continuous assessment knowledge	of		Stude	Student report		Practical work	х
Portfolio									
1.8. Assessment	and ev	aluation of studen	ıt work	during	classes	and the fina	l exam		
The course material	repres	ents one thematic	unit t	hat stu	dents p	ass through	an written	exam at the end	of the
semester. The exam 60-70% sufficient (2);	is cons	idered passed if s	studen	ts achie	eve at le	ast 60%. Sc	oring: <60		
1.9. Required rea	adings	and number of cop	oies re	lative to	the nui	mber of stude	ents currer	ntly taking the cours	se
Title			Number of copies Number of students						
Šatović, Z., Grdiša, M., Jeran, N., Varga, F. (2023): Očuvanje biljnih genetskih izvora, Zagreb: 306 str.			Avail	Available online 20					
https://www.agr.unizg.hr/publication/32/O%C 4%8Duvanje+biljnih+genetskih+izvora									
Lecture presentations			Avail	able in	pdf.				
1.10. Supp	lement	ary readings							
Vlada Republike Hrva poljoprivredu u Repul								enetskih izvora za h	nranu i
https://vlada.gov.hr/U							%20VRH/	71%20-	
%2022%20Nacionalr	<u>11%20pı</u>	ogram%20o%C4 ^o	<u>%8Du\</u>	<u>/anja.D</u>	<u>UC</u> (on	-line)			
The state of the worlds plant genetic resources for food and agriculture: 2nd report of the Worlds plant genetic resources for food and agriculture. (2010). Rome: FAO. https://www.fao.org/4/i1500e/i1500e00.htm (on-line)									
1.11. Methods of quality monitoring that ensure the acquisition of knowledge, skills and competences.									
Class attendance and								·	
Prepared and exhibite		•							
Written exam passed.									
Individual consultations.									
Student self-assessment of achieved learning outcomes.									
Student survey on the quality of teaching and teachers at the university level.									

General information						
Lead instructor	Pavao Gančević, PhD, Assistant Professor					
Course name	Wildlife Animal Species Population					
Study programme	Mediterranean Agronomy					
Course status	Mandatory					
Year	2.					
Number of credits and mode of delivery	ECTS student workload coefficient	3				
	Number of hours (L+P+S) 20+0+15					

Course description

1. Course aims

The aim of the course is to familiarise the students with the wildlife populations living in the wilderness areas of the Republic of Croatia, focussing on the coastal regions and the islands. Learning about morphological, ecological and biological characteristics of these populations with a focus on hunting species and becoming proficient in managing these populations. Throughout the course, the students will learn about the differences between native and non-native animal species, including possible invasive dangers that some species introduce into new habitats. The students will also observe feral domestic animals, i.e. those abandoned by owners and living freely in the nature. In addition, an important part of the course will be the coexistence between big predators and people.

2. Course enrolment requirements

none

3. Intended course learning outcomes

- Understanding and analising the basic legislation governing wildlife populations in the Republic of Croatia and the European Union.
- Recognising specific species to be managed
- Understanding the essential problems of coexistence between humans and wildlife populations and respective management.
- Acquiring fundamental principles of managing and hunting of wildlife populations
- Understanding the problems of non-native and invasive species among wildlife populations and their identification
- Listing the origins and methods of introduction of non-native and invasive species and understanding possible risks

4. Course content

Lectures

Introduction: Illustration of the historical and present management of wildlife populations. The need for management of wildlife populations and human coexistence with them. Factors affecting wildlife populations. Familiarisation with wildlife populations and big predators living in the wilderness areas of the Republic of Croatia, focussing on coastal areas and the islands. Learning about feral domestic animals and possibilities to manage them under the law. Analysing the hunting species and basic hunting management. Basic morphological, ecological and biological characteristics of hunting species in the Republic of Croatia. The methods of monitoring wildlife populations. Identification of the non-native and invasive species, the reasons for invasion and spread and models for related management. Protective measures to reduce damage from game and big predators. Damage evaluation.

Seminars and workshops include research of basic morphological, ecological and biological characteristics of a specific animal species, including native and non-native.

Field work includes visiting hunting grounds, practicing management of hunting species and monitoring wildlife populations (native and non-native)

5. Modes of delivery (mark the appropriate boxes with an X)					x lectures x seminars and workshops practicals remote learning x field work	□ mult □ labo □ supe	independent work multimedia and network laboratory supervision other		
6. Student obli	gatio	ons							
Students are required to attend lectures (tutorials and seminars 80%) and actively participate in the learning process, include producing and presenting a seminar paper. The above will be recorded and evaluated as part of their final grades.									
7. Monitoring s	tude	ent work	(mark the	appropi	riate boxes with an λ	X)			
Class attendance	х	Particip class	oation in	x	Seminar paper	х	Experimental work		
Written exam	Х	Oral ex	am	Х	Essay		Research		
Project		Contine assess knowle	ment of	х	Student report		Practical work		
Portfolio									
8. Assessment	anc	l evaluati	on of stud	lent wor	k during classes an	d the fina	al exam		
exam (examination p 61-75% good (3); 76 percentage of succes	During the course, the students may take two partial tests. If they fail these partial tests, they will be marked at their written exam (examination period). The grades at partial tests and the written exam are formed as follows: 51-60% satisfactory (2); 61-75% good (3); 76-88% very good 4); 89-100% excellent (5). The collective grade is the compound of all activities (the percentage of success for every activity is multiplied with the weighting coefficient): 10% x presence and active participation at tutorials and seminars (seminar paper) + 45% x achievement at 1st test + 45% x achievement at 2nd test.								
9. Required rea	ading	gs and nu	ımber of c	opies re	elative to the numbe	er of stude	ents currently taking the course		
Title			Number copies	of	Number of studer	nts			
Mustapić, Z. i sur. (2004). Lovstvo. Zagreb: Lovački savez Hrvatske. (On-line available)									
Janicki, Z. (2007). divljači. Zagreb Zagrebu,Veterinarski	:Sve	učilištu	(On-line availabl						
Frković, Alojzije (1981). (On-line available) lovačkih trofeja. Zagreb: Lovački savez Hrvatske.									
Križaj D. (2010): Šteto divljači.HLS, Zagreb	e od		(On-line availabl						
10. Supplement	ary ı	readings							
Andrašić D. (1982): C)bjek	kti tehnič	kog uređe	nja loviš	ta i uzgajališta divlja	ači. Liber	. Zagreb		
Andrašić, D. (1984). 2									
The Ecology of Invasions by Animals and Plants. Charles S. Elton									
	Smith, E. L. (1995). Elements of Ecology. New York: Harper and Row.								
	Regulation (EU) No 1143/2014 of the European Parliament and of the Council of 22 October 2014 on the prevention and management of the introduction and spread of invasive alien species								
The Ecology of Invasions by Animals and Plants. Charles S. Elton									

Methods of quality monitoring that ensure the acquisition of knowledge, skills and competences.

Attendance at lectures and active participation

Completion and presentation of seminar paper

Passing the written exam

Individual consultations

Student self-assessment of achievement

Student survey of the quality of lectures and lecturer at academic level

General information						
Lead instructor	Mario Bjeliš, PhD, Associate Professor					
Course name	Invasive harmful organisms					
Study programme	Mediterranean Agronomy					
Course status	Compulsory					
Year	1.					
Number of credits and mode of delivery	ECTS student workload coefficient	5				
	Number of hours (25+15+10)					

Course description

1.1. Course aims

The aim of the course is to acquaint students with invasive harmful organisms of Mediterranean cultures that are present in Europe and Croatia, the risk of introducing harmful organisms, measures and methods of prevention, prevention of spread and suppression, administrative measures and procedures after introduction.

1.2. Course enrolment requirements

none

1.3. Intended course learning outcomes

- Interpret the legislation related to the regulation of invasive species;
- Present the competence system of plant protection organizations in the Republic of Croatia;
- Determine the taxonomic affiliation of detected invasive species;
- Explain the biology, ecology and conditions for introduction and establishment of invasive species;
- Organize and implement preventive detection and early detection measures;
- Implement measures and methods to prevent spread and suppression.

1.4. Course content

- Introduction to the subject, 1P
- European Plant Protection Organization (EPPO), 2P
- Regulation on protective measures against organisms harmful to plants (2016/2031), 2P
- Jurisdiction of national organizations for plant protection in the Republic of Croatia, 2P
- Invasive and specially regulated harmful organisms of Mediterranean fruit crops that are present in the Republic of Croatia, 2P
- Taxonomic affiliation of invasive, quarantine and specially regulated species, 3P
- Biology and ecology of harmful organisms of Mediterranean fruit crops that are present in the Republic of Croatia, 2P
- Programs of special monitoring of harmful organisms in the Republic of Croatia, 2P
- Orders and action plans to prevent the spread and suppression of harmful organisms in the Republic of Croatia, 2P

 Methods of detection Examples of the spread Methods of preventing Colloquium Field teaching, invasiv Field teaching, invasiv 	ad of har g the spr re and sp	mful organisms, 2P ead and suppression pecially regulated ha	n, 3P irmful c	olive orga	anisms, 5				
Field teaching, invasiv Creation and presents	e and sp	pecially regulated ha	rmful c	-					
1.5. Modes of delivery (mark the appropriate box				oxes with an X)			ures ninars and ps icals te learning work	independent work multimedia and network laboratory supervision other	
1.6. Student oblig	ations								
Regular attendance at Creating a seminar pa		_	-	-	on in disc	cussions. Crea	tion of prac	tical tasks.	
	·	ork (mark the approp			h an X)				
Class attendance		Participation in cla	ISS		Seminar paper		х	Experimental work	
Written exam		Oral exam		х	Essay	Essay		Research	Х
Project		Continuous assessment knowledge		Student report			Practical work		
Portfolio		Field work X Kolo			Kolokv	ium	х		
1.8. Assessment	and eval	uation of student wo	ork duri	ng class	es and th	ne final exam			
Evaluation of the studer class. The final grade of and the grade of the sen grade after the oral exar	f the stud	dent's work is expre per.The seminar wor	ssed as	s the ave e graded	erage gra I and the	de of the grade grade will be i	e on the wri	tten exam, the oral ex	xam
1.9. Required read	dings and	d number of copies i	elative	to the n	umber o	f students curi	rently taking	the course	
Title			Numl	per of co	pies	Number of students			
Zakon o biljnom zdravstvu (N.N. 127/19) https://narodne- novine.nn.hr/clanci/sluzbeni/full/2019_12_127_2 552.html			On lir	line 20		20			
EPPO activities on plant quarantine https://www.eppo.int/ACTIVITIES/quarantine_activities				ne					
HAPIH, Centar za zaštit	-		On lir	ne					
https://www.hapih.hr/c Uredba (EU) 2016/203 vijeća	On lir	ne							

https://eur-lex.europa.eu/legalcontent/HR/TXT/PDF/?uri=CELEX:32016R2031& qid=1524207176599&from=EN

1.10. Supplementary readings

1.11. Methods of quality monitoring that ensure the acquisition of knowledge, skills and competences.

Class attendance and class activity.

Prepared and exhibited seminar paper.

Written exam passed.

Individual consultations.

Student self-assessment of achieved learning outcomes.

Student survey on the quality of teaching and teachers at the university level.