LENGTH OF STUDY

At the Faculty, students will gain knowledge in all three cycles. Study programs include a scientific area. The first cycle will last four years (240 ECTS), the second cycle will last a year 60 ESPB, and the third cycle of three years (180 ECTS).

Students who complete their studies will be trained to perform breeding planning, breeding ,forest protection and exploitation tasks in business systems

PLAN And study programme

FIRST CYCLE

ON THE JOINT JOINT SUBJECTS OF ALL STUDY PROGRAMMES ON THE FIRST CYCLE OF STUDI We specify the complete curricula and all specificities of each case individually. The list and structure of mandatory and electoral cases, the number of points and their description according to the objectives, expected outcomes, knowledge and competences, the conditions for attending the case, the content of the case, the necessary literature, the methods of performing classes and the way in which knowledge and evaluation are checked is also covered. Classes are performed in semetry depending on it and the active classes fund **in the first cycle** is:

- In the first year of 10 classes of lectures per week and 10 hours a week of exercise,
- In the second year of 10 classes of lectures per week and 10 hours a week of exercise,
- In the third year of 10 classes of lectures a week and 10 hours a week of exercise.
- In the fourth year of 10 classes of lectures a week and 10 hours a week of exercise.

Professional practice is organized in each study year in the summer semester with 60 hours each. It is mandatory to create a graduate work after all exams are passed with the envisaged curriculum.

ACADEMIC, I.E. SCIENTIFIC NAME THAT IS REACHED AT THE END OF THE STUDY

	Study Program Name	type and level of study	Callher/Diploma
Social	sciences		
		Basic	Dipl. ing forestry
	Management	Master's degree	Master of Forestry
		doctoral	Doctor of Forestry

First cycle: FORESTERY

Num.	Code		Case Name	Sam.	Guy	Status	A	ctive Hou classes	ırs	Else	ESPB
	Obde		ouse mame	Can.	Cuy	Olalus	P	V	KV	Class	LOID
			FI	RST YEAR							
1.	Š11010	Info	ormatics	1		0	2	2	5		6
2.	Š11020	Ma	thematics	1		0	2	2	5		6
3.	Š11030	Bu	siness English 1	1		0	2	2	5		6
4.	Š11040	Ph	ysiology and plant nutrition	1		0	2	2	5		6
5.		Ele	ective Subject 1	1		IB	2	2	5		6
	Š1105AI		Management	_							
	Š1105BI		Software tools for statistics								
6.	Š11060		ee anatomy	2		0	2	2	5		6
7.	Š11070		e basis of the economy	2		0	2	2	5		6
8.	Š11080		rest botany	2		0	2	2	5		6
9.	Š11090		siness English 2	2		0	2	2	5		6
10.	×	Ele	ective Case 2	2		IB	2	2	5		6
	Š1110AI		Sociology								
.	Š1110BI		GIS in forestry								
Total clas	SSES						300	300			60
	Č (D D (D			OND YEAR					-		
1.	Š12010		emistry	3		0	2	2	5		6
2.	Š12020		odesy	3		0	2	2	5		6
3.	Š12030		nison growing	3		0	2	2	5		6
4.	Š12040		rest typology	3		0	2	2	5		6
5.	Č4005AL	Ele	ective Case 3	3		IB	2	2	5		6
	Š1205AI		Petrography with geology								
	Š1205BI		Climate of forest and urban Area								
6.	Š12060	Pe	dology	4		0	2	2	5		6
7.	Š12070		ndrology with dendrometry	4		0	2	2	5		6
8.	Š12080	Ph	ysiology and plant nutrition	4		0	2	2	5		6
9.	Š12090		operties and protection of wood	4		0	2	2	5		6
10.		Ele	ective Case 4	4		IB	2	2	5		6
	W1210AI		Forest communication								
	Š1210BI		Forest biometrics								
Total clas	sses						300	300			60
	Č 400 40	-		IRD YEAR						1	
1.	Š13010		rest phytocenology	5		0	2	2	5		6
2.	Š13020		man Resources Management	5		0	2	2	5		6
3.	Š13030		rest genetics	5		0	2	2	5		6
4.	Š13040		chanization in forestry	5		0	2	2	5		6
5.	W1305AI	Ele	ective Case 5 Forest exploitation	5		IB	2	2	5		6
	Š1305AI		Forest exploitation Forest inventory								
6.	Š1305BI Š13060	Fo	rest means of transport	6		0	2	2	5		6
			-	_							
7.	Š13070		mary wood processing	6		0	2	2	5		6
8.	Š13080		rest growth and yield	6		0	2	2	5		6
9.	Š13090	Hu	nting	6		0	2	2	5		6

10.	l	Elective Case 6	6	IB	2	2	5	6
	W1310AI	Seeding, nursery and afforestation						
	Š1310BI	Using hunting fauna						
Total clas	sses				300	300		60

Ordin al	Code	Case Name	Sam.	Guy	Status	Ac	ctive Ho classes		Else Class	ESPB
al Num				-		Р	V	KV	Class	
		FOL	IRTH YEA	R						
1.	Š14010	Forest entomology	7		0	2	2	5		6
2.	Š14020	Forest phytopathology	7		0	2	2	5		6
3.	Š14030	Forest protection	7		0	2	2	5		6
4.	Š14040	Forestry economics	7		0	2	2	5		6
5.		Elective Case 7	7		IB	2	2	5		6
	W1405AI	Petrography with geology								
	W1405BI	Antierosive afforestation								
6.	Š14060	Plantation forestry	8		0	2	2	5		6
7.	Š14070	Forest products	8		0	2	2	5		6
8.	Š14080	Information systems in forestry	8		0	2	2	5		6
9.		Elective Case 8			IB	2	2	5		6
	W1409AI	Trade in forest products	8							
	Š1409BI	Edit forests	8							
10.	Sh14100	Professional practice	8		0				60	
11.		Graduate work	8		0					6
Total cla	asses		·	•		300	300			60

Second cycle: Magistriane studye

	Subject	Sam	Statua	No.cl	asses	
	Subject	Sam	Status	р	V	ESPB
1.	Methods and techniques of research	1	0	3	3	8
2.	Tovantitative genetics	1	0	2	2	7
3.	Plant systematics	1	0	3	3	7
4.	Election Block 1	1	IP	3	3	7
	Protection of nature and protected natural goods					
	Investments in forestry					
	Spatial analysis in forest rye planning					
5.	Planning and forest rye	2	0	3	3	7
6.	Election Block 2	2	IP	3	2	7
	Basics of forest growth moderation					
	Forest biomass for energy					
	Biotechnology in thereproductionof wooden species					
7.	Election Block 3	2	IP	3	3	7
	Industrial production of medicinal plants					
	Afforestation for special purposes					
	Planning for hunting grounds					
8.	Master's degree	2	0			10
	Total classes			300	300	60

Basic core of doctoral studies

	Case Name	Wit h	Case status	Р	CHEES E	ESPB
FIRST YE	AR					
1	Methodology of scientific research work	1	0	4	2	8
2	Knowledge management	1	0	4	2	8
3	Election Block 1 Subject	1	IB	3	1	7
	Comparative tree anatomy					
	Molecular genetics of forest trees					
4	Research paper on the selection of topics and overheating of literature for doctoral dissertation	1	About	0	4	8
5	Election Block 2 Subject	2	IB	3	1	7
	Dedicated production of forest reproductive material					
	Plantation production of medicinal, aromatic and spice plants					
6		2	IB	3	1	7
	Organisation, construction technology and management of construction of buildings in forestry					
	Degradation, protection, use and melioration of land					
7	Production and publication of the first scientific work	2	About	0	6	7
8	Doctoral Dissertation – Topic 1 Research	2	About	0	6	8
	Total active classes per year of study =			255	345	60
SECOND		1		r	1	-
1	Manage changes	3	About	4	2	8
2	Election Block Item 4	3	IB	3	1	7
	Phytopharmaceuticals					
	Applied zoology					
3	Election Block Case 5	3	IB	3	1	7
	Investments in infrastructure in forestry Dynamics of tree growth and forest consistencies					
4	Doctoral Dissertation – Topic 2 Research	3	About	0	6	9
5	Election Block Case 6	4	IB	3	1	7
	Modern technologies in forest inventory					
	Useof the mind underaspecial severance					
6	Production and publication of other scientific work	4	About	0	6	8
7	Doctoral Dissertation – Topic 3 Research	4	About	0	10	14
	Total active classes per year of study =			195	405	60
THIRD YE						
1	Doctoral Dissertation – Topic 4 Research	5	About	0	10	14
2	Writing doctoral dissertation (processing of doctoral dissertation data)	5	About	0	10	14
3	Production and publication of the third scientific work	6	About	0	6	9

4	Doctoral Dissertation – Research on topic 5	6	About	0	6	12
5	Defence of doctoral dissertation	6	About	0	8	11
Total activ	e classes per year of study =			0	600	60
Total ESF	PB points					180

	[/] study programs:				Forestry	
Type and cycle	of studies:			Academic ba	sic studies of the fir	st cycle
Case name:					INFORMATICS	
Teacher:						
Case status:		(C			
ESPB number:		e	6			
Condition:						
Pre-exam obliga	ations fulfilled					
Object Target						
					rtance of informatics for	
		ills in using	program too	ols, which stu	dents will use during o	college schooling.
Outcome of the						12.4
		ssing progra	ims, table c	alculation, pro	esentation making, an	d internet search.
Subject conten Theoretical teac						
		Application	of informati	co Rocio con	ncepts of computer sys	stom architactura
					ut devices, Computer is	
					ization and structure o	
	application probler					r data, Solving
Practical teachin		no, Cystern				
		h basic text r	orocessina	software tools	s, table calculation, pre	esentation
	d Internet search.				·, ····· · ····, [···	
Literature						
Basic:						
Sotirović V., Egi	ć B.: Informatics,	Cekom 200	6.			
Supplementary:						
Velimir Sotirović	, Dragana Glusad	: Standard I	PC softwar	e, Technical	Faculty «Mihajlo Pupir	n» Zrenjanin, 2005.
		oplication of	information	technology,	VPŠ Novi Sad,2004	
Number of acti				1		
Theoretical	Practical					
	teaching: 2					
Teaching meth						
			ethods of pa	apermaking, s	seminar papers and p	rojects, as well as
the step-by-step	method are used	l.				
Knowledge are			inte (00)			
Knowledge sco	ore (maximum nu					Deinte
	obligations		ints 5		Final exam	Points 30
activity during th			5 5	W	vritten exam	30
practical teachin seminar work	iy		5 :0			
			0			
colloquium		Z	.0			

Study program / study programs:		Forestry	
Type and cycle of studies:		Academic basic studies of the f	irst cycle
Case name:		MATHEMATICS	
Usmeadow:			
Case status:	0		
ESPB number:	6		
Condition: 30 points won in pre-exam a	ctivities		
Subject objective: The study of thesubject mathematics the basic one-semester academic progr as well as to enable students to be inclu	am and enable m		hematical apparatus,
Outcome of the case After mastering the curriculum, students modelling and extreme function values, addition, this program will allow student processes and theoretical contents of m	problems of percess to gain the appression	entage, simple and complex inter ropriate knowledge necessary to u	rest account. In
Basics of mathematical logic and theo Basics of differential and integral accou Account, students are familiar with the real functions of a variable. Strings - te statement. Use of the statement - mono progress of the function. Function two v values of two variables. Conditional ext the topic, the prelude to linear algebra is matrix. Linear algebar equation systems	nt, Prelude to line following mathem rm and string limi otony of function, rariables. Partial e remes. Unspecifie s studied: Matrix	ear algebra. In the Basics of Differ natical content: The concept and o t value. Function limit value. Asim extreme values, convexness, pre- expendation and total differential. ed and certain integral. Integratior	rentiated and Integral characteristics of the ptote functions Term war points. Test the Extreme function n methods. As part of
Literature: Velimir Sotirović, Momcilio Bjelica: Math University of Novi Sad, 2005.			
Velimir Sotirović, Aleksa Macanović: Ma Dragan Vukdelija and associates: Math Sad,2005.			
Dragan Vukdelija and associates: Math Sad,2005. Number of active classes	nematics for econ	omists,Faculty of Economics Sub	otica, Novi
Dragan Vukdelijaand associates: Math Sad,2005.Number of active classesLectures: 2Exercises: 2Other	nematics for econ		
Dragan Vukdelijaand associates: Math Sad,2005.Number of active classesLectures: 2Exercises: 2Methods of teaching:	nematics for econ	omists,Faculty of Economics Sub	otica, Novi
Dragan Vukdelijaand associates: Math Sad,2005.Number of active classesLectures: 2Exercises: 2Methods of teaching: Verbal textual	nematics for econ	omists,Faculty of Economics Sub	otica, Novi
Dragan Vukdelija and associates: Math Sad,2005.Number of active classesLectures: 2Exercises: 2Methods of teaching: Verbal textualKnowledge score (maximum number	forms:	omists,Faculty of Economics Sub	otica, Novi Other hours:
Dragan Vukdelija and associates: Math Sad,2005. Number of active classes Lectures: 2 Exercises: 2 Methods of teaching: Verbal textual Knowledge score (maximum humber) Pre-exam obligations	forms: <u>r of points 100)</u> Points	omists,Faculty of Economics Sub Study research work: Final exam	otica, Novi
Dragan Vukdelija and associates: Math Sad,2005. Number of active classes Lectures: 2 Exercises: 2 Methods of teaching: Verbal textual Knowledge score (maximum number Pre-exam obligations activity during the lecture	forms: r of points 100) Points 15	omists,Faculty of Economics Sub Study research work: Final exam written exam	otica, Novi Other hours: Points
Dragan Vukdelija and associates: Math Sad,2005. Number of active classes Lectures: 2 Exercises: 2 Other Methods of teaching: Verbal textual Knowledge score (maximum number Pre-exam obligations Image: Constraint of the state of the sta	forms: of points 100) Points 15 15	omists,Faculty of Economics Sub Study research work: Final exam	otica, Novi Other hours:
Dragan Vukdelija and associates: Math Sad,2005. Number of active classes Lectures: 2 Exercises: 2 Methods of teaching: Verbal textual Pre-exam obligations activity during the lecture	forms: r of points 100) Points 15	omists,Faculty of Economics Sub Study research work: Final exam written exam	otica, Novi Other hours: Points

Study program / study programs: Forestry					
Type and cycle of studies:		Academic basic studies of the fir	st cycle		
Case name:		BUSINESS ENGLISH 1			
Teacher:					
Case status:	0				
ESPB number:	6				
Condition: Pre-exam obligations fu	lfilled				
Subject objective:					
vocabulary. Developing two of the	basic skills: reading,	ess English with occasional reviews writing. Mastering the professions n rtain situations, mastering the basics	eeded to		
Outcome of the case:					
initial level, successfully achievable (TotalPhysical Response) and Co	e communication thro communicative Approa	Id have developed linguistic compete bugh constant repetition and method ach in primarily everyday situations, a c writing at a lower – medium level.	TPR		
Subject contents:		<u> </u>			
Theoretical teaching:					
		al and professional English throug			
		and private purposes, interpersonal	relationships in the		
workplace, health, security, IT in la	rge companies, writi	ng e-mails.			
Practical teaching:					
		t repetition and meaningful, contextu			
	, checking adopted r	naterial through dictates and role pla	ays.		
Literature:					
Mandatory literature:	on Swoonov 2004	English 365, level 1, 15 units, CUP,	Combridge		
Recommended literature:	1011 Sweeney, 2004,	English 303, level 1, 13 units, COF,	Cambridge		
1. Murphy, Raymond, 2000, Englis	h Grammar and Use	CLIP Cambridge			
2. Swan, M., Walter, C., 2004, How					
Dictionaries:					
1. Oxford English Serbian Student	's Dictionary, OUP, C	Dxford, 2007			
2. Longman Dictionary of English L					
		-			
Number of active classes					
Lectures: Exercises:	Other forms:	Study research work:	Other hours:		
2815=30 2815=30		Study research work.			
Methods of teaching:					
Verbal textual, illustratively demonstratively					
Knowledge score (maximum nu			D · · ·		
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam			
practical teaching	15	oral exam	30		
seminar work	20				
colloquium	20				

Study program / study programs:		Forestry					
Type and cycle of studies:		Academic basic studies of the first	st cycle				
Case name:		PHYSIOLOGY AND PLANT NUTF	RITION				
Teacher:							
Case status:	0						
ESPB number:	6						
Condition:							
30 points won on pre-exam activitie	S						
Subject objective:	-						
The aim of the subject Philosophy	and plant nutrition is	to evaluateresearchin plant physiol	ogv and				
integratethese knowledge into plant							
improveskillsin the design of experim			1 9 89				
Outcome of the case:	,						
Students will be trained to understa	nd the basic function	ing of plants , as well as factors that	t affect				
svarrangement intheletterand perm							
forimproving forests.	5 1						
Subject contents:							
The initiator. Meaningofherb physio	logy. Hthe emic co	omposition of the plant body. Enzym	es. Water and				
plant cells. Receiving, conductinga							
availability of mineral substances, re	ole of mineral nutrier	ts, mykorosis. Assimilated mineral	substances.				
Transfer of dissolved substances. H	laemoautotrophy, pl	notoautotropy, structure of the photo	osynthetic				
apparatus, photosynthetic reactions							
breathing - aerobic, anaerobic. Brea	athing the whole plar	t. Regulation of cellular change of s	ubstances.				
		ones, auksins, giberelins, cytokines					
other physiologically active substan	ces. Temperature ac	tion on the growth and developmen	t of wooden plants,				
belly bud dormancy, seed dormanti							
wooden plants, phytochromes, phot							
from fertilization to maturity of the fr							
plant and defensive substances. Sti							
resistance of wooden plants to drou							
soil, water, soil and air pollution, res							
movements, organ movements, free	e locomotor moveme	nts, movements in the station, phys	ical movements.				
Literature:							
Mandatory	`						
Botany (morphology and physiology	/)						
Recommended							
Themanual for the							
Physiological Plant Ecology							
Number of active classes		1					
Lectures: Exercises: Of	ther forms:	Study research work:	Other hours:				
2X15=30 2X15=30							
Methods of teaching:	trabla						
Verbal textual, illustratively demons							
Knowledge score (maximum num							
Pre-exam obligations	Points	Final exam	Points				
activity during the lecture	15	written exam					
practical teaching	15	oral exam	30				
seminar work	20						
colloquiums	20						

Study program / study programs:		Forestry	
Type and cycle of studies:		Academic basic studies of th	e first cycle
Case name:		MANAGEMENT	
Teacher:			
Case status:	IP		
ESPB number:	6		
Condition:			
30 points won on pre-exam activ	ities		
Subject objective:			
The aim of the management case company, i.e. analysis of the very as an environment of management	y nature, and domain o	of management, in which the org	anization is potentiated
Outcome of the case:			
Students will be trained to unders			
affect company dynamics, with th		litions for permanent productivity	and efficiency growth,
as the basis for improving quality	of life at all levels.		
Subject contents:		_	
The initiator. Historic manageme			
Harrington Emerson. Henry Fayo			
principles of management. Plan			
Planning as a scientific discipline			
decision-making. Management a			
Stages of the decision-making pr managementdecisions. Organizi			
Decentralisation of powersofasso			
Avoidingorganizing . Theguidan			
Motivational theories. The conce			
characteristics. Leadership styles			
types. The control process. Cha		control. Information system and (
	trol techniques. Busir		control. The 14-year-
types. The control process. Cha old's management ofcontrol. Cor Literature:	ntrol techniques. Busir		control. The 14-year-
old's management ofcontrol. Cor Literature:	ntrol techniques. Busir		control. The 14-year-
old's management ofcontrol. Con Literature: Aboutthe new: Syfert Zvonko: History of scientifi	ic thought managemer	ess control. Direct and preventiv It, Technical Faculty "Mihajlo Pu	control. The 14-year- ve control. pin", Zrenjanin, 2004.
old's management ofcontrol. Cor Literature: Aboutthe new: Syfert Zvonko: History of scientifi Sajfert Zvonko, Djordjević Dejan,	ic thought managemer	ess control. Direct and preventiv It, Technical Faculty "Mihajlo Pu	control. The 14-year- ve control. pin", Zrenjanin, 2004.
old's management ofcontrol. Cor Literature: Aboutthe new: Syfert Zvonko: History of scientifi Sajfert Zvonko, Djordjević Dejan,	ic thought managemer	ess control. Direct and preventiv It, Technical Faculty "Mihajlo Pu	control. The 14-year- ve control. pin", Zrenjanin, 2004.
old's management ofcontrol. Cor Literature: Aboutthe new: Syfert Zvonko: History of scientifi Sajfert Zvonko, Djordjević Dejan, Zrenjanin, 2006. Supplement: Bozidar Leković: P	ic thought managemer Bešić Cariša: Lexicor	ess control. Direct and preventiv nt, Technical Faculty "Mihajlo Pu Management, Technical Facult	control. The 14-year- ve control. pin", Zrenjanin, 2004. y "Mihajlo Pupin",
old's management ofcontrol. Cor Literature: Aboutthe new: Syfert Zvonko: History of scientifi Sajfert Zvonko, Djordjević Dejan, Zrenjanin, 2006. Supplement: Bozidar Leković: P Number of active classes	ic thought managemer Bešić Cariša: Lexicor	ess control. Direct and preventiv nt, Technical Faculty "Mihajlo Pu Management, Technical Facult	control. The 14-year- ve control. pin", Zrenjanin, 2004. y "Mihajlo Pupin", ca
old's management ofcontrol. Cor Literature: Aboutthe new: Syfert Zvonko: History of scientifi Sajfert Zvonko, Djordjević Dejan, Zrenjanin, 2006. Supplement: Bozidar Leković: P Number of active classes Lectures: Exercises:	ic thought managemer Bešić Cariša: Lexicor rinciples of Manageme	ess control. Direct and preventive at, Technical Faculty "Mihajlo Pu Management, Technical Facult ent, Faculty of Economics Suboti	control. The 14-year- ve control. pin", Zrenjanin, 2004. y "Mihajlo Pupin",
old's management ofcontrol. Cor Literature: Aboutthe new: Syfert Zvonko: History of scientifi Sajfert Zvonko, Djordjević Dejan, Zrenjanin, 2006. Supplement: Bozidar Leković: P Number of active classes Lectures: 2X15=30 Exercises: 2X15=30	ic thought managemer Bešić Cariša: Lexicor	ess control. Direct and preventiv nt, Technical Faculty "Mihajlo Pu Management, Technical Facult	control. The 14-year- ve control. pin", Zrenjanin, 2004. y "Mihajlo Pupin", ca
old's management ofcontrol. Cor Literature: Aboutthe new: Syfert Zvonko: History of scientifi Sajfert Zvonko, Djordjević Dejan, Zrenjanin, 2006. Supplement: Bozidar Leković: P Number of active classes Lectures: 2X15=30 Methods of teaching:	ic thought managemer Bešić Cariša: Lexicor rinciples of Manageme Other forms:	ess control. Direct and preventive at, Technical Faculty "Mihajlo Pu Management, Technical Facult ent, Faculty of Economics Suboti	control. The 14-year- ve control. pin", Zrenjanin, 2004. y "Mihajlo Pupin", ca
old's management ofcontrol. Cor Literature: Aboutthe new: Syfert Zvonko: History of scientifi Sajfert Zvonko, Djordjević Dejan, Zrenjanin, 2006. Supplement: Bozidar Leković: P Number of active classes Lectures: 2X15=30 Methods of teaching:	ic thought managemer Bešić Cariša: Lexicor rinciples of Manageme Other forms:	ess control. Direct and preventive at, Technical Faculty "Mihajlo Pu Management, Technical Facult ent, Faculty of Economics Suboti	control. The 14-year- ve control. pin", Zrenjanin, 2004. y "Mihajlo Pupin", ca
old's management ofcontrol. Cor Literature: Aboutthe new: Syfert Zvonko: History of scientifi Sajfert Zvonko, Djordjević Dejan, Zrenjanin, 2006. Supplement: Bozidar Leković: P Number of active classes Lectures: 2X15=30 Methods of teaching: Verbal textual, illustratively demo	ic thought managemer Bešić Cariša: Lexicor rinciples of Manageme Other forms:	ess control. Direct and preventive at, Technical Faculty "Mihajlo Pu Management, Technical Facult ent, Faculty of Economics Suboti	control. The 14-year- ve control. pin", Zrenjanin, 2004. y "Mihajlo Pupin", ca
old's management ofcontrol. CorLiterature:Aboutthe new:Syfert Zvonko: History of scientifiSajfert Zvonko, Djordjević Dejan,Zrenjanin, 2006.Supplement:Bozidar Leković: PNumber of active classesLectures:Exercises:2X15=302X15=30Methods of teaching:Verbal textual, illustratively demoKnowledge score (maximum n	ic thought managemer Bešić Cariša: Lexicor rinciples of Manageme Other forms: onstrable umber of points 100)	ess control. Direct and preventive at, Technical Faculty "Mihajlo Pu Management, Technical Faculty ent, Faculty of Economics Suboti Study research work:	control. The 14-year- ye control.
Literature: Aboutthe new: Syfert Zvonko: History of scientifi Sajfert Zvonko, Djordjević Dejan, Zrenjanin, 2006. Supplement: Bozidar Leković: P Number of active classes Lectures: 2X15=30 Methods of teaching: Verbal textual, illustratively demo Knowledge score (maximum n Pre-exam obligations	ic thought managemer Bešić Cariša: Lexicor rinciples of Manageme Other forms: onstrable umber of points 100) Points	ess control. Direct and preventive at, Technical Faculty "Mihajlo Pu Management, Technical Faculty ent, Faculty of Economics Suboti Study research work: Final exam	control. The 14-year- ve control. pin", Zrenjanin, 2004. y "Mihajlo Pupin", ca
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Study program / study programs:		Forestry				
Type and cycle of studies:		Academic basic studies of the f	irst cycle			
Case name:		SOFTWARE TOOLS FOR STATISTICS				
Teacher (surname, sr. letter, name):						
Case status:	IP					
ESPB number: 6						
Condition: fulfilment of pre-exam oblig	ations (30 points)					
Subject objective: Adoption of basic knowledge in the fie opinion and analytical approach to pro- professional subjects using software to Outcome of the case: The student is trained to apply statistic acquired knowledge in professional su Subject contents: Prelude to probability theory (set of ele probability, total probability formula, B function, distribution examples: binon, Random continuous type variables (de Gaus's normal, exponential, logarithm (mathematical expectation, dispersion middle of the sample, sampling disper median). Assessment theory (dotted r ratings). Statistical tests (parameter hy	Id of probability ar oblems. Training s ools. cal methods proce ubjects and further ementary events, ayes formula). Ra Poison, geometric ensity function, dis ic). Transformatio , standard deviatio sion, histogram, p atings: moments r	udents to connect and employ act ssed under this case. The student education, and also in practice. probability at discreet and continue ndom discrete type variables (law c distribution, two-dimensional ran tribution function, distribution exar hs and numerous characteristics of on). Prelude to mathematical statis olygon, empirical distribution function nethod and maximum credibility m	quired knowledge in t is ready to use the bus set, conditional and distribution dom variable). mples: uniform, of random variables stics (arithmetic tion, fashion, nethod; interval			
significance tests: Hi2-test, Alpha-tes Getting to know the enforcement of Ex						
Literature:						
Velimir Sotirović, Aleksa Macanović, S Velimir Sotirović, Zivoslav Adamovic: Faculty "Mihajlo Pupin" Zrenjanin, 200 Number of active classes	Methodology of so					
	er forms:	Study research work:	 Other hours: 			
Methods of teaching: Verbal-text, illustrative-demonstrative, Knowledge score (maximum number	software-enginee					
Pre-exam obligations		Final exam	Dointo			
8	Points 15	written exam	Points			
activity during the lecture	15		30			
practical teaching seminar work	20	oral exam	30			
colloquium	20					

Study program / study programs:		Forestry		
Type and cycle of studies:		Academic basic studies of the first	st cycle	
Case name:		TREE ANATOMY		
Teacher (surname, sr. letter, name):				
Case status:	0			
ESPB number:	6			
Condition:				
Fulfilment of pre-exam obligations (30	points)			
Subject objective:				
Gaining knowledge of the recognition of				
understanding the basic properties and		. The second objective is to achieve	expertisein	
identifyingexistingcommercial typesof	wood.			
Outcome of the case:				
Acquired knowledge from forest botan				
wooden plants to understand the beha	avior of wood but a	iso application in commercial exploi	tation.	
Subject contents:	12		tel es Maderla	
Withadaci anatomy of wood, pornate				
of work in wood anatomy. Rough wood				
Aboutcell rganization, size, modes of c Composition and layout of the substan				
cellwalls. Cell wall sculptures. Macros				
microscopic material of leafwood . C				
identifying selected types of wood usin				
identification keys. Variations of wood				
build: Reaction wood, compression err				
			a mon aproa goao.	
Literature:				
Mandatory literature:				
Wood anatomy				
Additional literature:				
Anatomy of European woods				
Textbook of Wood Technology				
Number of active classes		-	Other hours:	
	er forms:	Study research work:		
Methods of teaching:		· · · · · · · · · · · ·		
Lectures are performed by a combined				
exhibited by the method "excatedra" w				
is performed "casestudy"bymethod, i.e				
theoretical content. Seminar work is m				
the production, presentation and defer				
creativity, and through the topics of se Classes will be accompanied by exam				
knowledge from scientific publications.		iterature. Students will actively mon		
Number of active classes				
Locturos: Exorcisos:			Other hours:	
2X15=30 2X15=30 Othe	er forms:	Study research work:		
Methods of teaching:				
Verbal-textual, illustrative-demonstrative				
Knowledge score (maximum number of points 100)				
Pre-exam obligations	Points	Final exam	Points	
activity during the lecture	15	written exam		
practical teaching	15	oral exam	30	
seminar work	20			
colloquium	20			

Study program / study programs:		Forestry		
Type and cycle of studies:	A	Academic basic studies of the first	st cycle	
Case name:		THE BASIS OF THE ECONO	ЛY	
Teacher (surname, sr. letter, name):				
Case status:	0			
ESPB number:	6			
Condition:				
Fulfilment of pre-exam obligations (30	points)			
Subject objective:				
Acquiring knowledge in the field of the view of the evolution of scientific though settings of market business, as well as	ht about the marke	et economy and the development of	f basic theoretical	
Outcome of the case:			<i>x</i> coonony.	
Acquired knowledge from the basics of phenomena and when solving the prot			erent market	
Subject contents:		· · · ·		
Conceptual determination of economics	s, economic thoug	ht to the industrial revolution, class	ical political	
economy, marginalism, macro-econom	ic analysis, social	production, commodity production,	production and	
development factors, conceptual design				
supply, conceptual determination of sea	arch, market mech	nanism and institutional influences,	forms of market	
organizing.				
Literature:				
Mandatory literature:				
Grozdanić R., Djordjević D., Basics of I				
Bilic, S., Kunic, M., Krupić, I. (2010) Ba	isics of Economics	,High School "Center for Business	Studies" Kiseljak.	
Supplementary literature:				
Djordjevic D., Besic C., Bogetić S., Bas	sics of Functioning	of modern economics, TF M. Pupil	n, Zrenjanin, 2004.	
Number of active classes	,		Other hours:	
	forms:	Study research work:		
Methods of teaching:		· · · · · · · · · · ·		
Lectures are performed by a combined				
exhibited by the method "excatedra" wi				
is performed "casestudy"bymethod, i.e.				
theoretical content. Seminar work is ma				
the production, presentation and defen				
creativity, and through the topics of ser Classes will be accompanied by examp				
from scientific publications.			JI New Knowledge	
Number of active classes				
Locturos: Exorcisos:			Other hours:	
2X15=30 2X15=30 Other	forms:	Study research work:		
Methods of teaching: Verbal-textual, illustrative-demonstrative				
	Knowledge score (maximum number of points 100)			
Pre-exam obligations	Points	Final exam	Points	
activity during the lecture	15	written exam		
practical teaching	15	oral exam	30	
seminar work	20			
colloquium	20			

Study program / study programs:		Forestry			
Type and cycle of studies:		Academic basic studies of the firs	t cycle		
Case name:		FOREST BOTANICALS			
Teacher (surname, sr. letter, name):					
Case status:	0				
ESPB number:	6				
Condition:	1				
Fulfilment of pre-exam obligations (30	ooints)				
Subject objective:					
Gaining knowledge of the basic meanings	ofthe buildingand fu	nctions of plant cells and subcellular org	anization, and the		
outer and internal morphology of plants with					
the organization and functions of individual			on and morphology		
of vegetative organs of trees, leaf and roots	and organisations	and functions of generative organs.			
Outcome of the case:	idanta will waa in w	derotonding the structure and function of	of planta to		
Acquired knowledge from forest botania stu understand their functioning.	idents will use in ur	iderstanding the structure and function of	or plants to		
Subject contents:					
Microscope, parts and handling, making te	emporary preparatio	ns. Observing cells epidermisa onion.	Plantcell, shape		
and parts, primmed and secondary structu					
chromoplastics and leukoplastics. Protoplastics	st products, starch	grains, proteins, calcium oxanate crystal	s. Mytosis of body		
cells and meyosis cells. Basic tissues (pa					
peridermis and lenticella) Elements of trans					
- sieve tubes and companion cells. The pri					
beam at the cross-section of the stem; the Secondary structure of the tree at the goos					
the tree. Anatomical organization of the list					
morphologyof flowers and fruits .	and morphology (sheet. Morphology and anatomical organ			
Literature:					
Mandatory literature:					
Whichone, M., Pekic, S., Dajic, Z. (1998): Botany. Seventh	and updated edition, University Udbeni	k, Belgrade.		
Additional literature:					
Daddy, N., Petković, B. (1998): Plant mo					
Denfer, D., Ziegler, H. (1982): Textbook for	nign schools – mor	phology and fi ziology. School book, Zag	jreb.		
Number of active classesLectures: 2Exercises: 2Other	forms:	Study research work:	Other hours:		
Methods of teaching:	101115.	Study research work.			
Lectures are performed by a combined met	hod(ex catedra / c	ase study). Theoretical teaching content	is exhibited by the		
method "excatedra" with the support of com					
"casestudy"bymethod, i.e. by analysing cha					
is mandatory for all students. The seminar					
seminar work, which exercises the exercise					
entire theoretical content of the subject is p			currentliterature.		
Students will actively monitor new knowledg	ge from scientific pu	blications.			
Number of active classes		1			
Lectures: Exercises: Other	forms:	Study research work:	Other hours:		
2X15=30 2X15=30		· ·			
Methods of teaching:					
Verbal-textual, illustrative-demonstrative					
	Knowledge score (maximum number of points 100)				
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam			
practical teaching	15	oral exam	30		
seminar work	20				
colloquium	20				

presentation and introduction, phone calls for business and private purposes, interpersonal relationships in th workplace, health, security, IT in large companies, writing e-mails and replying. <i>Practical teaching:</i> <i>drilling</i> – rehearsing a new vocabulary through constant repetition and meaningful, contextual use in the form of dialogue, teamwork, group work, checking adopted material through dictates and <u>role plays</u> . Literature: Mandatory literature: 1. Bob Dignen, Steve Flinders, Simon Sweeney, 2004, English 365, level 1, 15 units, CUP, Cambridge Recommended literature: 1. Murphy, Raymond, 2000, English Grammar and Use, CUP, Cambridge 2. Swan, M., Walter, C., 2004, How English Works, Oxford University Press, Oxford Dictionaries:: 1. Oxford English Serbian Student's Dictionary, OUP, Oxford, 2007 2. Longman Dictionary of English Language and Culture, Longman, Harlow, Essex, 2003 Number of active classes Lectures: 2X15=30 Wethods of teaching: Verbal textual, illustratively demonstrable Knowledge score (maximum number of points 100) Pre-exam obligations Practical teaching 15 oral exam 30 seminar work 20	Study program / study programs:		Forestry				
Durcess EndLish 2 Description Description Case status: 0 ESPB number: 6 Condition: Fulfilment of pre-exam obligations (30 points) laid business English vith occasional reviews of professional vocabulary. Developing four basics skills: speech, reading, writing, and listening. Mastering the structures necessary for communication in certain situations (formal and informal), mastering the structures necessary for communication in certain situations (formal and informal), mastering the structures necessary for communication in certain situations (formal and informal), mastering the structures necessary for communication in certain situations (formal and informal), mastering the structures necessary for communication in primarily everyday situations, adoption of professional vocabulary and characteristics of academic writing at a lower – medium level. Subject contents: Theoretical teaching: Lecturesintroduce students to the basics of general and professional English through topics such as presentation and introduction, phone calls for business and private purposes, interpersonal relationships in th workplace, health, security. IT in large companies, writing e-mails and replying. Practical teaching: Iterature: 1. Bob Dignen, Steve Flinders, Simon Sweeney, 2004, English 365, level 1, 15 units, CUP, Cambridge 2. Swan, M., Water, C., 2004, How English Works, Oxford University Press, Oxford Dictionaries: 1. Murphy, Raymond, 2000, English Grammar and Use, CUP, Cambridge 2. Swan, M., Water, C., 2004, How English			Academic basic studies of the first cycle				
Case status: O ESPB number: 6 Condition: Fulfiment of pre-exam obligations (30 points) laid business English 1 Subject objective: Introducing students to the basics of general and business English with occasional reviews of professional vocabulary. Developing four basic skills: speech, reading, writing, and listening. Mastering the structures necessary for communication in certain situations (formal and informal), mastering the basis of business correspondence. Outcome of the case: After listening to and learned content, the student should have developed linguistic competence at a lower – medium level, successfully achievable communication in primarily everyday situations, adoption of professional vocabulary and characteristics of academic writing at a lower – medium level. Subject contents: Theoretical teaching: Theoretical teaching: Lectures introduce students to the basics of general and professional replying. Practical teaching: Practical teaching: didialogue, teating: Gotompaties, writing e-mails and replying. Practical teaching: Cuentry, IT in large companies, writing at large hore plays. Lifterature: Madatory literature: 1. Bob Dignen, Steve Flinders, Simon Sweeney, 2004, English 365, level 1, 15 units, CUP, Cambridge 2. Swan, M., Walter, C., 2004, How English Works, Oxford University Press, Oxford Dictionary of English Language and Culture, Longman, Harlow, Essex, 2003	Case name:		BUSINESS ENGLISH 2				
ESPB number: 6 Condition: Fulfilment of pre-exam obligations (30 points) laid business English 1 Subject objective: Introducing students to the basics of general and business English with occasional reviews of professional vocabulary. Developing four basic skills: speech, reading, writing, and listening. Mastering the structures necessary for communication in certain situations (formal and informal), mastering the basis of business correspondence. Outcome of the case: After listening to and learned content, the student should have developed linguistic competence at a lower – medium level, successfully achievable communication in primarily everyday situations, adoption of professional vocabulary and characteristics of academic writing at a lower – medium level. Subject contents: Theoretical teaching: Lecturesintroduce students to the basics of general and professional English through topics such as presentation and introduction, phone calls for business and private purposes, interpersonal relationships in th workplace, health, security, IT in large companies, writing e-mails and replying. Practical teaching: Iterature: Mandatory literature: 1. 1. Bob Dignen, Steve Flinders, Simon Sweeney, 2004, English 365, level 1, 15 units, CUP, Cambridge 2. Swan, M., Walter, C., 2004, How English Works, Oxford University Press, Oxford Dictionaries: 1. Murphy, Raymond, 2000, English Grammar and Use, CUP, Cambridge 2. Swan, M., Walter, C., 2004, How English Works, Oxford University Press, Oxford Dict		ə):					
Condition: Fulfilment of pre-exam obligations (30 points) laid business English 1 Fulfilment of pre-exam obligations (30 points) laid business English 1 Subject objective: Introducing students to the basics of general and business English with occasional reviews of professional vocabulary. Developing four basic skills: speech, reading, writing, and listening. Mastering the structures necessary for communication in certain situations (formal and informal), mastering the basis of business correspondence. Outcome of the case: After listening to and learned content, the student should have developed linguistic competence at a lower – medium level, successfully achievable communication in primarily everyday situations, adoption of professional vocabulary und characteristics of academic writing at a lower – medium level. Subject obtents: Theoretical teaching: Lecturesintroduce students to the basics of general and professional English through topics such as presentation and introduction, phone calls for business and private purposes, interpersonal relationships in th workplace, health, security, IT in large companies, writing e-mails and replying. Practical teaching: dialogue, teamwork, group work, checking adopted material through dictates and <i>role plays</i> . Literature: 1. Bob Dignen, Steve Flinders, Simon Sweeney, 2004, English 365, level 1, 15 units, CUP, Cambridge 2. Swan, M., Walter, C., 2004, How English Works, Oxford University Press, Oxford Dictionaries:: 1. Oxford English Serbian Student's Dictionary, OUP, Oxford, 2007 2. L							
Fulfilment of pre-exam obligations (30 points) laid business English 1 Subject objective: Introducing students to the basics of general and business English with occasional reviews of professional vocabulary. Developing four basic skills: speech, reading, writing, and listening. Mastering the structures necessary for communication in certain situations (formal and informal), mastering the basis of business correspondence. Outcome of the case: After listening to and learned content, the student should have developed linguistic competence at a lower – medium level, successfully achievable communication in primarily everyday situations, adoption of professional vocabulary and characteristics of academic writing at a lower – medium level. Subject contents: Theoretical teaching: Lecturesintroduce students to the basics of general and professional English through topics such as presentation and introduction, phone calls for business and private purposes, interpersonal relationships in th workplace, health, security, IT in large companies, writing e-mails and replying. Practical teaching: Interview of the cases Liferature: 1. Bob Dignen, Steve Flinders, Simon Sweeney, 2004, English 365, level 1, 15 units, CUP, Cambridge 2. Swan, M., Walter, C., 2004, How English Works, Oxford University Press, Oxford Dictionaries:: Other hours: 2. Longman Dictionary of English Language and Culture, Longman, Harlow, Essex, 2003 Other hours: Methods of teaching: Exercises: Other forms: 2. Kongman Dictionary of English Lan		6					
Introducing students to the basics of general and business English with occasional reviews of professional vocabulary. Developing four basic skills: speech, reading, writing, and listening. Mastering the structures necessary for communication in certain situations (formal and informal), mastering the basis of business correspondence. Outcome of the case: After listening to and learned content, the student should have developed linguistic competence at a lower – medium level, successfully achievable communication in primarily everyday situations, adoption of professional vocabulary and characteristics of academic writing at a lower – medium level. Subject contents: Theoretical teaching: Lectures introduction, phone calls for business and private purposes, interpersonal relationships in th workplace, health, security, IT in large companies, writing e-mails and replying. <i>Practical teaching:</i> diling - rehearsing a new vocabulary through constant repetition and meaningful, contextual use in the form of dialogue, teamwork, group work, checking adopted material through dictates and <i>role plays</i> . Literature: 1. Bob Dignen, Steve Flinders, Simon Sweeney, 2004, English 365, level 1, 15 units, CUP, Cambridge Recommended literature: 1. Murphy, Raymond, 2000, English Grammar and Use, CUP, Cambridge 2. Swan, M., Walter, C., 2004, How English Works, Oxford University Press, Oxford Dictionaries:: 1. Oxford English Serbian Student's Dictionary, OUP, Oxford, 2007 2. Longman Dictionary of English Language and Culture, Longman, Harlow, Essex, 2003 Number of active classes Lectures: 2X15-30 2X15-30 Cother forms: X109 Study research work: Knowledge score (maximum number of points 100) Pre-exam obligations Points Knowledge score (maximum number of points 100) Pre-exam obligations Points Knowledge score (maximum number of points 100) Pre-exam obligations Points Pre-exam obli							
After listening to and learned content, the student should have developed linguistic competence at a lower – medium level, successfully achievable communication in primarily everyday situations, adoption of professional vocabulary and characteristics of academic writing at a lower – medium level. Subject contents: Theoretical teaching: Lecturesintroduce students to the basics of general and professional English through topics such as presentation and introduction, phone calls for business and private purposes, interpersonal relationships in th workplace, health, security, IT in large companies, writing e-mails and replying. Practical teaching: drilling – rehearsing a new vocabulary through constant repetition and meaningful, contextual use in the form of dialogue, teamwork, group work, checking adopted material through dictates and role plays. Literature: 1. Bob Dignen, Steve Flinders, Simon Sweeney, 2004, English 365, level 1, 15 units, CUP, Cambridge 2. Swan, M., Walter, C., 2004, How English Works, Oxford University Press, Oxford Dictionaries:: 1. Oxford English Serbian Student's Dictionary, OUP, Oxford, 2007 2. Longman Dictionary of English Language and Culture, Longman, Harlow, Essex, 2003 Other hours: Mumber of active classes Exercises: Lectures: Exercises: Other forms: X15_330 2X15=30 Other forms: Study research work: Methods of teaching: Verbal textual, illustratively demonstrable Points Final exam P	Introducing students to the basics vocabulary. Developing four basic necessary for communication in co correspondence.	skills: speech, readi	ng, writing, and listening. Mastering	the structures			
Theoretical teaching: Lectures introduce students to the basics of general and professional English through topics such as presentation and introduction, phone calls for business and private purposes, interpersonal relationships in the workplace, health, security, IT in large companies, writing e-mails and replying. Practical teaching: drilling – rehearsing a new vocabulary through constant repetition and meaningful, contextual use in the form of dialogue, teamwork, group work, checking adopted material through dictates and <i>role plays</i> . Literature: Mandatory literature: 1. Bob Dignen, Steve Flinders, Simon Sweeney, 2004, English 365, level 1, 15 units, CUP, Cambridge 2. Swan, M., Walter, C., 2004, How English Grammar and Use, CUP, Cambridge 2. Swan, M., Walter, C., 2004, How English Korks, Oxford University Press, Oxford Dictionaries:: 1. Oxford English Serbian Student's Dictionary, OUP, Oxford, 2007 2. Longman Dictionary of English Language and Culture, Longman, Harlow, Essex, 2003 Number of active classes Lectures: Exercises: 2X15=30 Other forms: Study research work: Other hours: Pre-exam obligations Points Price exam obligations Points Final exam Points activity during the lecture 15 Y15 oral exam 20 15	After listening to and learned conte medium level, successfully achieved	able communication	in primarily everyday situations, ado				
1. Bob Dignen, Steve Flinders, Simon Sweeney, 2004, English 365, level 1, 15 units, CUP, Cambridge Recommended literature: 1. Murphy, Raymond, 2000, English Grammar and Use, CUP, Cambridge 2. Swan, M., Walter, C., 2004, How English Works, Oxford University Press, Oxford Dictionaries:: 1. Oxford English Serbian Student's Dictionary, OUP, Oxford, 2007 2. Longman Dictionary of English Language and Culture, Longman, Harlow, Essex, 2003 Number of active classes Lectures: Exercises: Other forms: Study research work: Other hours: 2X15=30 Other forms: Study research work: Other hours: Werbods of teaching: Verbal textual, illustratively demonstrable Knowledge score (maximum number of points 100) Pre-exam obligations Points Final exam Points activity during the lecture 15 written exam practical teaching 15 oral exam 30 seminar work 20	<i>Theoretical teaching:</i> Lecturesintroduce students to the basics of general and professional English through topics such as: presentation and introduction, phone calls for business and private purposes, interpersonal relationships in the workplace, health, security, IT in large companies, writing e-mails and replying. <i>Practical teaching:</i> <i>drilling</i> – rehearsing a new vocabulary through constant repetition and meaningful, contextual use in the form of dialogue, teamwork, group work, checking adopted material through dictates and <i>role plays</i> .						
2. Swan, M., Walter, C., 2004, How English Works, Oxford University Press, Oxford Dictionaries:: 1. Oxford English Serbian Student's Dictionary, OUP, Oxford, 2007 2. Longman Dictionary of English Language and Culture, Longman, Harlow, Essex, 2003 Number of active classes Lectures: Exercises: 2X15=30 Other forms: Study research work: Other forms: Methods of teaching: Verbal textual, illustratively demonstrable Pre-exam obligations Pre-exam obligations Points Activity during the lecture 15 yratical teaching 15 oral exam 30	1. Bob Dignen, Steve Flinders, Sir Recommended literature:		-	Cambridge			
Lectures: Exercises: Other forms: Study research work: Other hours: 2X15=30 2X15=30 Other forms: Study research work: Other hours: Methods of teaching: Verbal textual, illustratively demonstrable Verbal textual, illustratively demonstrable Verbal textual, illustratively demonstrable Pre-exam obligations Points Final exam Points activity during the lecture 15 written exam 30 practical teaching 15 oral exam 30 seminar work 20 Verbal exam 30	 Swan, M., Walter, C., 2004, How Dictionaries:: Oxford English Serbian Student 	w English Works, Ox 's Dictionary, OUP, (ford University Press, Oxford Dxford, 2007				
Lectures: 2X15=30 Exercises: 2X15=30 Other forms: Study research work: Other hours: Methods of teaching: Verbal textual, illustratively demonstrable Verbal textual, illustratively demonstrable Verbal textual, illustratively demonstrable Verbal textual, illustratively demonstrable Pre-exam obligations Points Final exam Points activity during the lecture 15 written exam 30 practical teaching 15 oral exam 30 seminar work 20 Verbal exam 30	Number of active classes						
Methods of teaching: Verbal textual, illustratively demonstrable Knowledge score (maximum number of points 100) Pre-exam obligations Pre-exam obligations Points Final exam Points activity during the lecture 15 written exam practical teaching 15 oral exam 30 seminar work 20 10 10	Lectures: Exercises:	Other forms:	Study research work:	Other hours:			
Pre-exam obligationsPointsFinal examPointsactivity during the lecture15written exam10practical teaching15oral exam30seminar work201010	Methods of teaching:						
Pre-exam obligationsPointsFinal examPointsactivity during the lecture15written exam10practical teaching15oral exam30seminar work201010	Knowledge score (maximum number of points 100)						
activity during the lecture15written exampractical teaching15oral exam30seminar work201010				Points			
practical teaching15oral exam30seminar work20							
seminar work 20	· · · · · · · · · · · · · · · · · · ·			30			
	colloquiums	20					

Study program / study programs:		Forestry			
Type and cycle of studies:		Academic basic studies of the fir	rst cycle		
Casename:		SOCIOLOGY			
Teacher (surname, sr. letter, nam	ne):				
Casestatus:	IP				
ESPB number:	6				
Condition: 30 points won in pre-exam activities					
Subjectobjective:					
		ormation and knowledge about s attitudes and values. They try t			
Outcome of the case					
Students will have basic knowled for better understanding in soci	ety as well as succe	mastering the content of the subjend recognition of different social other teaching subjects during their	al phenomena. The		
Contents of the case:					
Theoreies Theoretical and methodological sociology. Methods and techniques for researching social phenomena. The importance of empirical research into social phenomena, Constituent elements of society: civilizational processes, cultural identity, ethnocentrism. The value and normative structure of society. Social interaction and everyday life. Social statuses and social decisions, Druptvena groups. Family. Social organisations, Social inequalities: social stratification; social elites. Horizontal and vertical social mobility, Social institutions, Political institutions, Social consciousness: ideologies, religion and morality, Social processes and social change, Sociocentric and mediocentric role of mass media, Management as a sociological theme, Sociology of a networked society; cyber-sociology; cyber-culture; virtual society. Content of exercises The exercises elaborate in detail by individual segments, through seminar papers, from the following areas: Applying methods and techniques in researching social phenomena, Research ing valuable orientation in young people, Exploring what social status means, Young people 's relationship to ideology, religion and morality, Social affect society 's consciousness , Sociological management viewing , Analysis of social networking sites .					
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Number of active classes Other forms: Study research work: Other hours: Lectures: 2 Exercises: 2 Other forms: Study research work: Other hours: Methods of teaching: Lectures are performed by a combined method(ex catedra / case study). Theoretical teaching content is exhibited by the method "excatedra" with the support of computer presentations, the second part of the lecture is performed "casestudy"bymethod, i.e. by analysing characteristic cases and examples that illustrate theoretical content. Seminar work is mandatory for all students. The seminar paper includes the preparation of the production, presentation and defence of seminar work, which exercises the exercise of the technique of creativity, and through the topics of seminar papers the entire theoretical content of the subject is processed. Classes will be accompanied by examples from world literature. Students will actively monitor new knowledge from scientific publications. Number of active classes Exercises: Other forms: 2X15=30 Other forms: Study research work: Other hours: Methods of teaching: Verbal-textual, illustrative-demonstrative Verbal-textual, illustrative-demonstrative Methods of teaching: Verbal-textual, illustrative-demonstrative 15 oral exam 30 seminar work 20 0 0 Precexam obligations 20 0 0	remoteresearch. Electromagnetic objects and atmosphere. Registerin Photographic and non-photographi recordings, radargrams, thermogra prhymes of remote research. Remo programming support and baze d positionsystems to maintain graphi conversion. Digital relif model (DMI of new layers in GIS. Takeone GIS Literature: Mandatory literature: Oluić, M., 2001: Recording and explo Brukner, M., 1994: GIZIS – basics. INA Donassy, V., Oluić, M., Tomasegović, J. Kereković, D. (ed.) 1997: GIS in Croati Supplementary literature: Lillesand, T.M., Kiefer, R. W., Chipmar	radiation. Remission a ng electromagnetic rad ic procedures. Types of ams and risolation of ote research and GIS, ata. System design. E cal databases. Fitting R)-type, method of con S in forestry. ringEarth from space, H A-INFO, Zagreb. Z. (1983): DI in geoscier ia, Infocentar d.o.o., Zag n, J.W., 2004: Distracte s	and reflection. Characteristics of refl diation. Recording devices. Sensor of remote research from space, from satelliteimages. Methods of interpr razvoj, vreste and characteristics Database record formats. Use of g DI products into GIS. Vector and ra instruction and application. Data and MAZU, Zagreb. aces, Zagreb reb.	ection from Earth's types. matelitic etation and of technique and global ster GIS. Data alysis and creation			
Lectures: 2 Exercises: 2 Other forms: Study research work: Methods of teaching: Lectures are performed by a combined method(ex catedra / case study). Theoretical teaching content is exhibited by the method "excatedra" with the support of computer presentations, the second part of the lecture is performed "casestudy"bymethod, i.e. by analysing characteristic cases and examples that illustrate theoretical content. Seminar work is mandatory for all students. The seminar paper includes the preparation of the production, presentation and defence of seminar work, which exercises the exercise of the technique of creativity, and through the topics of seminar papers the entire theoretical content of the subject is processed. Classes will be accompanied by examples from world literature. Students will actively monitor new knowledge from scientific publications. Number of active classes Other forms: Study research work: 2X15=30 2X15=30 Other forms: Study research work: Verbal-textual, illustrative-demonstrative Final exam Points Knowledge score (maximum number of points 100) Pre-exam obligations Points Practical teaching 15 oral exam 30 seminar work 20 0 0 0	Number of active classes						
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Verbal-textual, illustrative-demonstrative Knowledge score (maximum number of points 100) Pre-exam obligations Points Final exam Points activity during the lecture 15 written exam 0 practical teaching 15 oral exam 30 seminar work 20 0 0	2X15=30 2X15=30	other forms:	Study research work:	Other hours:			
Knowledge score (maximum number of points 100)Pre-exam obligationsPointsFinal examPointsactivity during the lecture15written exampractical teaching15oral exam30seminar work200							
Pre-exam obligationsPointsFinal examPointsactivity during the lecture15written exampractical teaching15oral exam30seminar work20							
activity during the lecture15written exampractical teaching15oral exam30seminar work20			Final avam	Dointo			
practical teaching 15 oral exam 30 seminar work 20				Points			
seminar work 20				20			
			orai exam	30			
20		20					
	Colloquium	20					

Study program / study programs:		Forestry			
Type and cycle of studies:		Academic basic studies of the firs	t cycle		
Case name:		CHEMISTRY	•		
Teacher (surname, sr. letter, name	e):				
Case status:	0				
ESPB number:	6				
Condition:					
Pre-exam obligations fulfilled					
Case objective andcase file					
I'm notgoing to let you do that, but	a homeduring their life	cycle. Stic andherfrom chemistry ar			
Outcome of the casea: Essential ly razumevanje fundame Samostalno performance experime The skill of logical connectionis th Alithium approach solves the pro	entata ipravilno tumae eoretical and experim	ental			
Theoreticala nastava It's an initiator. Basic zaconitis in cl structure. Periodic table. Chemical Electrolytic dissociating. Colloidal s ghas. Halogen and halcogenic eler pine group. Zemnoalkal and alkal k Practitioner It's a smile. The structure of the ma responsition speed. The creatures. stabilisation of colloidal systems. G	It's an initiator. Basic zaconitis in chemistry. Chemical formulas and equations. Aggregate rock. Atom structure. Periodic table. Chemical connections. Chemical processes. Chemical fabric. It's a good thing. Electrolytic dissociating. Colloidal systems. Electrochemistry. Coordination compounds. It's hydrogen. Noble ghas. Halogen and halcogenic elements. Elements of a group of nitrates and carbon groups. Elements of the pine group. Zemnoalkal and alkal brooms. Too little elements.				
 Literature 1. Predrag Djurdjevic, Milos Djuran, Mirjane Obradovic, General and Neorgan chemistry, Natural-Matematic Fukultet, Kragujevac, 1997. 2.M. Spasojević, L. Ribić-Zelenović, General Chemistry, Agronomist Fakultet, Cacak, 2008. 3.M. Dragojević, S. Stević, M. Popovic, V. Šcepanović, General Chemistry, Technological-Metallurgical Fukultet, Beograd, 2004. 4. Lenka Ribić-Zelenović, Miroslav Spasojević, Practicum General Chemistry, Agronomist FakultEt Cacak, 2004. 5. Lenka Ribić-Zelenović, Miroslav Spasojević, Collection of Zadataka from General Chemistry, Agronomski fakultet Cacak, 2004. 					
Number of active classes					
	actical teaching: 2				
Teaching methods Lectures, exercises and consultations, independent and group work on the study of relevant sources;					
production and presenting seminar papers.					
Knowledge score (maximum number of points 100)					
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam	30		
practical teaching	15				
seminar work	20				
colloquium	20				
	20		1		

Study program / study programs:		Forestry			
Type and cycle of studies:	/	cademic basic studies of the first	st cycle		
Case name:	Case name: GEODESY				
Teacher (surname, sr. letter, name):					
Case status:	0				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
processing of measurement results principles of forming surveying netw coordinates and altitudes of surveyin surveying measurements and proce the principles of forming surveying n	Objective andcase file Familiarizing yourself with the basics of Geodesy, surveying instruments, measurement methods and processing of measurement results . Getting to know the types of surveying points and networks, the principles of forming surveying networks, necessary measurements in networks and the process of calculating coordinates and altitudes of surveying points Students will acquire the necessary knowledge of the methods of surveying measurements and processing of measured sizes, as well as on the purpose of surveying points, the principles of forming surveying networks, how to determine coordinates or altitudes of surveying points.				
Subject contents					
Theoretical teaching Intake, cartographic projections, coordinate systems, units of measurement. Measuring lengths, indirectly determining lengths, measuring horizontal angles, measuring vertical angles, measuring height differences, measuring total surveying station, based on measurement error theory. Pacing the directorate angle and lengths from the coordinates of the points. Trigonometric network, determination of approximate coordinates of the trigonometric point by cutting forward. Polygon network, train types, calculating coordinates in an inserted polygon train. Line network, counting dot coordinates on the line and administrative. Nivelman network, counting the angle of the rapper on the inserted Nivelman train. Practical teaching Field exercise: length measurement, angle measurement, height difference measurement, field measurement processing. Calculating the directorate angle and lengths from the coordinates of the polygon points on the inserted polygon train. Calculate the coordinates of the polygon points on the inserted polygon train. Calculate the coordinates of points on the line and administrative. Calculating altitudes on a Nivelman train					
Literatura 1. Kontić S.: Geodesy, Science, Belgrade, 1995. 2. Mihajlović K Lazic B.: Geodesy, Faculty of Forestry - Geokarta, Belgrade, 1992.					
Number of active classes					
	ctical teaching: 2				
Teaching methods					
Knowledge score (maximum num					
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam			
practical teaching	15	oral exam	30		
seminar work	20				
colloquium	20				

Type and cycle of studies: Academic basic studies of the first cycle Case name: GAME GROWING Teacher (surname, sr. letter, name): C Case status: O ESPB number: 6 Condition: Pre-exam obligations fulfilled Pre-exam obligations fulfilled The aim of the subject is to educate and train students for professional work in the field of hunting and hunting economy. At the end of his studies, the student is trained to develop and apply modern technologies and scientific achievements in hunting. The acquired level of knowledge ensures that it is easily, efficiently and fully enforced in practical work in the field of hunting. The howledge gained should enable the student to develop and apply modern technologies and scientific achievements in hunting, refleciently and fully enforced in practical work in the scientific basis of hunting. The knowledge gained should enable the student to develop and apply modern technologies and scientific achievements in hunting, reflecient practical work in the field of hunting, successful problem solving and transfer of his knowledge to the professional and general public. Subject contents Theoretical teaching Growing and protecting game as part of integral bossing: Principles of the modern (environmental) concept of game-raising and protection i Wildiffe farming and protection programmes in the hunting ground; Monitoring and realisation of programmes and plans, audit; Planing and breeding measures; The basics of clustration of game produced in farms for settlement in hunting grounds; Farming of game; Planits is theasies of clustration of game in the h	Study program / study programs:		Forestry		
CAME GROWING Case status: O Case status: O ESPB number: 6 Condition: Pre-exam obligations fulfilled Objective and case file O Departing and the subject is to educate and train students for professional work in the field of hunting and hunting economy. At the end of his studies, the student is trained to develop and apply modern technologies and scientific achievements in hunting. The acquired level of knowledge ensures that it is easily, efficiently and fully enforced in practical work in the field of hunting. The outcome of the case is the formation of experts with academic education who passes significantly expanded and deepened knowledge that forms the basis for originality in developing and applying ideas as well as the knowledge necessary to understand the scientific basis of hunting. The knowledge gained should enable the student to develop and apply modern technologies and scientific achievements in hunting, efficient practical work in the filed of hunting. Subject contents Theoretical teaching Growing and protecting game as part of integral bossing; Principles of the modern (environmental) concept of game-raising and protection ; Wildlife farming and protection programmes in the hunting ground; Nonitoring and realisation of programmes of parming the degree of use by number and structure; Determination of the number and structure of game. The basics of cultivation of large game and breeding measures; The basics of cultivation of allarge game and breeding measures; The basics of cultivation of allarge game and prededing measures; The basics of cultivation of pares	Type and cycle of studies:		Academic basic studies of the first	t cycle	
Case status: O ESPE number: 6 Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the subject is to educate and train students for professional work in the field of hunting and hunting economy. At the end of his studies, the student is trained to develop and apply modern technologies and scientific achievements in hunting. The acquired level of knowledge ensures that it is easily, efficiently and fully enforced in practical work in the field of hunting. The outcome of the case is the formation of experts with academic education who possess significantly expanded and deepened knowledge that forms the basis for originality in developing and applying ideas as well as the knowledge to the professional and general public. Subject contents Subject contents Theoretical teaching Growing and protecting game as part of integral bossing; Principles of the modern (environmental) concept of game-raising and protection ; Wildlife farming and protection programmes in the nutring ground; Knointoing and realisation of programmes and plans, audit; Hunting basis and annual landfill plan ; Hunting ground, rating and bonting of hunting grounds; Determining the degree of use by number and structure. Determination of the number and structure of game in the chincial facilities; Protection of game from; Predators, poachers and poach, audit; Hunting Breeding and technical facilities; Protection of game from; predators, poachers and poaching, elementary disasters , intensive agricultural production. Practical teaching The ordege end sub during the degree of use by number and structure. Determining the nunting grounds. Fating ad	Case name:		GAME GROWING		
ESPE number: 6 Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the subject is to educate and train students for professional work in the field of hunting and hunting economy. At the end of his studies, the student is trained to develop and apply modern technologies and scientific achievements in hunting. The acquired level of knowledge ensures that it is easily, efficiently and fully enforced in practical work in the field of hunting. The outcome of the case is the formation of experts with academic education who possess significantly expanded and deepened knowledge that forms the basis for originality in developing and applying ideas as well as the knowledge to the vorfeessional and general public. Subject contents Theoretical work in the field of hunting, successful problem solving and transfer of his knowledge to the professional and general public. Subject contents Theoretical eaching Growing and protection ; Wildlife farming and protection programmes in the hunting ground; Monitoring and realisation of programmes and plans, audit; Hunting basis and annual landfill plan ; Hunting ground, rating and broting of hunting ground; Determining the degree of use by number and structure; Determinition of the mutber and structure of game and breeding measures; Adaptation of game protection of game from: protection of game and protection of game and protection of game and protection of game in the hunting ground; Rotex ; Earth and technical facilities: Protection of game from: predators, poachers and poaching, elementary disasters , intensive agricultural production. Practical teaching The production of plans and programmes of farming and	Teacher (surname, sr. letter, name)	:			
Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the subject is to educate and train students for professional work in the field of hunting and hunting economy. At the end of his studies, the student is trained to develop and apply modern technologies and scientific achievements in hunting. The acquired level of knowledge ensures that it is easily, efficiently and fully enforced in practical work in the field of hunting. The outcome of the case is the formation of experts with academic education who possess significantly expanded and deepened knowledge that forms the basis for originality in developing and applying ideas as well as the knowledge necessary to understand the scientific basis of hunting. The knowledge gained should enable the student to develop and apply modern technologies and scientific achievements in hunting, efficient practical work in the field of hunting. Subject contents Theoretical teaching Theoretical teaching Growing and protection j Wildlife farming and protection programmes in the hunting ground; Monitoring and realisation of programmes and plans, audit; Hunting basis and annual landfill plan ; Hunting ground; the degree of use by number and structure; Determining the degree of use by number and structure; Othermining the degree of use by number and structure; Adaptation of game produced in farms for settlement in hunting ground; Farming of game; Hunting breeding and technical facilities, Protection of game from: predators, poachers and poaching, elementary disasters, intensive agricultural production. Pretroided mathing of hunting basis and annual bandfill grounds; Farming of game; Hunting ground, the process of monitoring the realisation of programmes and plans, audits. Planning and organizes, Adapta	Case status:	0			
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activity during the lecture15written exampractical teaching15oral exam30seminar work20					
practical teaching15oral exam30seminar work20				Points	
seminar work 20					
	practical teaching	15	oral exam	30	
colloquium 20	seminar work	20			
	colloquium	20			

Type and cycle of studies: Academic basic studies of the first cycle Case name: TYPOLOGY OF FOREST Teacher (surname, sr. letter, name): O Case status: O ESPB number: 6 Condition: Pre-exam obligations fulfilled Objective andcase file O The axing the existing state of the forest fund. It allows for the systematization of forest coxystems based on the ecological and production classification of cations into forest types and on this basis proposes the most purposeful measures for successful forest landlording, preserving and advancing: habitat, biodiversity, productivity, and other general functions of the forest with academic education who possess significantly expanded and deepened knowledge for systematizing forest ecosystems based on environmental and production classification into forest typology development, typological classification of forest typology. Successful forest landlording, preserving and diversity, productivity, and other general functions. Subject contents Subject contents Subject and task of forest typology, overview of forest typology development, typological classification of torest in BiH, principles, content and objective of forest typology development, carding vegetation, soil maping, synthetic typological map. Literature Madatory Bucalo, V. (2002): Forest typology. University of Banja Luka, Shumarki Faculty. Stefanović, V. (1986): Enclogical-vegetation rejonization of Bosnia and Herzegovina, F	Study program / study programs:		Forestry			
Case status: O Case status: Implementation Case status: Implementation Condition: Freexam obligations fulfilled Objective andcase file Implementation The aim of the subject is to educate and train students to classify forests, environmentally vegetative habitat characteristics as well as wood mass production and other polyvalent forest functions, with the aim of improving the existing state of the forest fund. It allows for the systematization of forest ecosystems based on the ecological and production classification of cations into forest types and on this basis proposes the most purposeful measures for successful forest landlording, preserving and advancing: habitat, biodiversity, productivity, and other general functions of the forest. The outcome of the case is the formation of experts with academic education who possess significantly expanded and deepened knowledge for systematizing forest ecosystems based on environmental and production classification into forest types and on this basis proposes the most appropriate measures for successful forest landlording, preserving and improving: habitat, biodiversity, productivity, and other general functions. Subject contents Subject contents Subject contents Subject set typology. overview of forest typology development, typological classification of forests is not appropriate measures for successful forest typology. Subject and task of forest typology. University of Banja Luka, Shumarki Faculty. Stefanovic, V. (1986): The basis of forest typology. Faculty of Forestry, Uni			Academic basic studies of the firs	st cycle		
Case status: O ESPB number: 6 Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the subject is to educate and train students to classify forests, environmentally vegetative habitat characteristics as well as wood mass production and other polyvalent forest functions, with the aim of improving the existing state of the forest fund. It allows for the systematization of forest cosystems based on the ecological and production classification of cations into forest types and on this basis proposes the most purposeful measures for successful forest landlording, preserving and advancing: habitat, biodiversity, productivity, and other general functions of the forest. The outcome of the case is the formation of experts with academic education who possess significantly expanded and deepened knowledge for systematizing forest ecosystems based on environmental and production classification into forest types and on this basis proposes the most appropriate measures for successful forest tandlording, preserving and improving: habitat, biodiversity, productivity, and other general functions. Subject contents Subject contents Subject and task of forest typology , overview of forest typology , ecological and production phase of typological forest typological map. Literatura Mandatory Bucalo, V. (2002): Forest typology. University of Banja Luka, Shumarki Faculty. Stefanović, V. (1986): The basis of forest typology. Faculty of Forestry, University of Sarajevo, Sarajevo. Supelementary Stefanović, V., Ulaurica, C., Dizdarević, H., Fabjanić, B., Prolić, N. (1977) Types of low deg	Case name:		TYPOLOGY OF FOREST			
ESPB number: 6 Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the subject is to educate and train students to classify forests, environmentally vegetative habitat characteristics as well as wood mass production and other polyvalent forest functions, with the aim of improving the existing state of the forest fund. It allows for the systematization of forest ecosystems based on the ecological and production classification of cations into forest types and on this basis proposes the most purposeful measures for successful forest landlording, preserving and advancing: habitat, biodiversity, productivity, and other general functions of the forest. The outcome of the case is the formation of experts with academic education who possess significantly expanded and deepened knowledge for systematizing forest ecosystems based on environmental and production classification into forest types and on this basis proposes the most appropriate measures for successful forest typology, overview of forest typology development , typological classification of forests in BiH , principles, content and objective of forest typology , ecological and production phase of typological forest division , synthesis and display of results of typological research, carding vegetation, soil maping , synthetic typology. University of Banja Luka, Shumarki Faculty. Stefanović, V. (2022): Forest typology. University of Banja Luka, Shumarki Faculty. Stefanović, V., Burlica, C., Dizdarević, H., Fabjanić, B., Prolić, N. (1977) Types of low degraded forests of the sub-Mediterranean area of Herzegovina, Sumarki faculty and Institute of Forestry in Sarajevo, Sarajevo. Supplementary Starajevo, Sarajevo. Number	Teacher (surname, sr. letter, name)):				
Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the subject is to educate and train students to classify forests, environmentally vegetative habitat characteristics as well as wood mass production and other polyvalent forest functions, with the aim of improving the existing state of the forest fund. It allows for the systematization of forest ecosystems based on the ecological and production classification of cations into forest types and on this basis proposes the most purposeful measures for successful forest landlording, preserving and advancing: habitat, biodiversity, productivity, and other general functions of the forest. The outcome of the case is the formation of experts with academic education who possess significantly expanded and deepened knowledge for systematizing forest ecosystems based on environmental and production classification into forest types and on this basis proposes the most appropriate measures for successful forest types and on this basis proposes the most appropriate measures for successful forest landlording, preserving and improving: habitat, biodiversity, productivity, and other general functions. Subject contents Subject contents Subject forest division, synthesis and display of forest typology development, typological classification of forests in BiH , principles, content and objective of forest typological research, carding vegetation, soil maping , synthetic typology. University of Banja Luka, Shumarki Faculty. Subplect contentary Literatura Mandatory Supariety typology. University of Banja Luka, Shumarki Faculty. Subplect rane are are of Herzegovina, Sumarki faculty and Institute of Forestry in Sarajevo, Saraje	Case status:	0				
Pre-exam obligations fulfilled Objective andcase file The aim of the subject is to educate and train students to classify forests, environmentally vegetative habitat characteristics as well as wood mass production and other polyvalent forest functions, with the aim of improving the existing state of the forest fund. It allows for the systematization of forest ecosystems based on the ecological and production classification of cations into forest types and on this basis proposes the most purposeful measures for successful forest landlording, preserving and advancing: habitat, biodiversity, productivity, and other general functions of the forest. The outcome of the case is the formation of experts with academic education who possess significantly expanded and deepened knowledge for systematizing forest ecosystems based on environmental and production classification into forest types and on this basis proposes the most appropriate measures for successful forest landlording, preserving and improving: habitat, biodiversity, productivity, and other general functions. Subject contents Subject contents Subject and task of forest typology , overview of forest typology development , typological classification of forests in BiH , principles, content and objective of forest typology , ecological and production phase of typological forest division , synthesis and display of results of typological research, carding vegetation, soil maping , synthetic typological map. Literatura Mandatory Bucalo, V. (2002): Forest typology. University of Banja Luka, Shumarki Faculty. Stefanović, V. (1936): The basis of forest typology. Faculty of Forestry, University of Sarajevo, Sarajevo. Stefanović, V., Burlica, C., D	ESPB number:	6				
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The aim of the subject is to educate and train students to classify forests, environmentally vegetative habitat characteristics as well as wood mass production and other polyvalent forest functions, with the aim of improving the existing state of the forest fund. It allows for the systematization of forest ecosystems based on the ecological and production classification of cations into forest types and on this basis proposes the most purposeful measures for successful forest landlording, preserving and advancing: habitat, biodiversity, productivity, and other general functions of the forest. The outcome of the case is the formation of experts with academic education who possess significantly expanded and deepened knowledge for systematizing forest ecosystems based on environmental and production classification into forest types and on this basis proposes the most appropriate measures for successful forest landlording, preserving and improving: habitat, biodiversity, productivity, and other general functions. Subject contents Subject and task of forest typology , overview of forest typology development , typological classification of forests in BiH , principles, content and objective of forest typology , ecological and production phase of typological forest typological map. Literatura Mandatory Mandatory Subject stypology. University of Banja Luka, Shumarki Faculty. Stefanović, V. (1986): The basis of forest typology. Faculty of Forestry, University of Sarajevo, Sarajevo. Supplementary Stefanović, V., et al. (1983): Ecological-vegetation rejonization of Bosnia and Herzegovina, Faculty of Forestry, University of Sarajevo, Sarajevo. Stefanović, V., et al. (1983): Ecological-vegetation rejoni	Pre-exam obligations fulfilled					
typological forest division , synthesis and display of results of typological research, carding vegetation, soil maping , synthetic typological map. Literatura Mandatory Bucalo, V. (2002): Forest typology. University of Banja Luka, Shumarki Faculty. Stefanović, V. (1986): The basis of forest typology. Faculty of Forestry, University of Sarajevo, Sarajevo. Supplementary Stefanovic, V., Burlica, C., Dizdarević, H., Fabjanić, B., Prolić, N. (1977) Types of low degraded forests of the sub-Mediterranean area of Herzegovina, Šumarki faculty and Institute of Forestry in Sarajevo, Sarajevo. Stefanović, V., et al. (1983): Ecological-vegetation rejonization of Bosnia and Herzegovina, Faculty of Forestry, University of Sarajevo, Sarajevo. Number of active classes Theoretical teaching: 2 Practical teaching: 2 Teaching methods Knowledge score (maximum number of points 100) Pre-exam obligations Points Final exam Points activity during the lecture 15 written exam practical teaching 15 oral exam 30	Objective andcase file The aim of the subject is to educate and train students to classify forests, environmentally vegetative habitat characteristics as well as wood mass production and other polyvalent forest functions, with the aim of improving the existing state of the forest fund. It allows for the systematization of forest ecosystems based on the ecological and production classification of cations into forest types and on this basis proposes the most purposeful measures for successful forest landlording, preserving and advancing: habitat, biodiversity, productivity, and other general functions of the forest. The outcome of the case is the formation of experts with academic education who possess significantly expanded and deepened knowledge for systematizing forest ecosystems based on environmental and production classification into forest types and on this basis proposes the most appropriate measures for successful forest landlording, preserving: habitat, biodiversity, productivity, and other general functions. Subject contents					
Literatura MandatoryMandatoryBucalo, V. (2002): Forest typology. University of Banja Luka, Shumarki Faculty.Stefanović, V. (1986): The basis of forest typology. Faculty of Forestry, University of Sarajevo, Sarajevo.SupplementaryStefanović, V.,Burlica, C., Dizdarević, H., Fabjanić, B., Prolić, N. (1977) Types of low degraded forests of the sub-Mediterranean area of Herzegovina, Šumarki faculty and Institute of Forestry in Sarajevo, Sarajevo.Stefanović, V., et al. (1983): Ecological-vegetation rejonization of Bosnia and Herzegovina, Faculty of Forestry, University of Sarajevo, Sarajevo.Number of active classesTheoretical teaching: 2Practical teaching: 2Pre-exam obligationsPointsActivity during the lecture15written exampractical teaching20	typological forest division, synthes	is and display of res				
Mandatory Bucalo, V. (2002): Forest typology. University of Banja Luka, Shumarki Faculty. Stefanović, V. (1986): The basis of forest typology. Faculty of Forestry, University of Sarajevo, Sarajevo. Supplementary Stefanović, V., Burlica, C., Dizdarević, H., Fabjanić, B., Prolić, N. (1977) Types of low degraded forests of the sub-Mediterranean area of Herzegovina, Šumarki faculty and Institute of Forestry in Sarajevo, Sarajevo. Stefanović, V., et al. (1983): Ecological-vegetation rejonization of Bosnia and Herzegovina, Faculty of Forestry, University of Sarajevo, Sarajevo.Number of active classesImage: Cological teaching: 2Theoretical teaching: 2Practical teaching: 2Rowledge score (maximum number of points 100)Final examPre-exam obligationsPointsactivity during the lecture15uritten exam30practical teaching20		map.				
Theoretical teaching: 2Practical teaching: 2Image: Constraint of teaching: 2Teaching methodsKnowledge score (maximum number of points 100)Pre-exam obligationsPointsFinal examPre-exam obligationsPointsImage: Constraint of teachingactivity during the lecture15written exampractical teaching15oral examseminar work20Image: Constraint of teaching	Mandatory Bucalo, V. (2002): Forest typology. University of Banja Luka, Shumarki Faculty. Stefanović, V. (1986): The basis of forest typology. Faculty of Forestry, University of Sarajevo, Sarajevo. Supplementary Stefanovic, V.,Burlica, C., Dizdarević, H., Fabjanić, B., Prolić, N. (1977) Types of low degraded forests of the sub-Mediterranean area of Herzegovina, Šumarki faculty and Institute of Forestry in Sarajevo, Sarajevo. Stefanović, V., et al. (1983): Ecological-vegetation rejonization of Bosnia and Herzegovina, Faculty of Forestry,					
Teaching methodsKnowledge score (maximum number of points 100)Pre-exam obligationsPoints 100)Pre-exam obligationsPointsactivity during the lecture15written exampractical teaching15oral exam30seminar work201010	Number of active classes					
Knowledge score (maximum number of points 100)Pre-exam obligationsPointsFinal examPointsactivity during the lecture15written exam10practical teaching15oral exam30seminar work201010	Theoretical teaching: 2 Pra	actical teaching: 2				
Pre-exam obligationsPointsFinal examPointsactivity during the lecture15written exam10practical teaching15oral exam30seminar work201010						
Pre-exam obligationsPointsFinal examPointsactivity during the lecture15written exam10practical teaching15oral exam30seminar work201010	Knowledge score (maximum number of points 100)					
activity during the lecture15written exampractical teaching15oral exam30seminar work201010						
practical teaching15oral exam30seminar work20	¥					
seminar work 20				30		
	· · · ·					

Study program / study programs:		Forestry		
Type and cycle of studies:		Academic basic studies of the firs	t cycle	
Case name:		PETROGRAPHY WITH GEOLO	GY	
Teacher (surname, sr. letter, name)				
Case status:	IP			
ESPB number:	6			
Condition: Pre-exam obligations fulfilled				
Objective andcase file The aim of the subject is to raise and expand the level of knowledge in geology, so that students acquire knowledge from this, during their studies can also use in other subjects. From the point of view of needs in practice, this is a necessity that students face at the beginning of their studies, because the geological-petrographic basis allows for an understanding of pedology, i.e. pedogenesis and erosion-denudation processes in a broader sense. The outcome of the case is the formation of experts with academic education who possess significantly expanded and deepened knowledge for Reating practical problems in forestry, problems, forest communications and arrangement oftorrents and land, cultivation, use and maintenance of forests, the impact of groundwater and surface waters on rocks and soil, fi zic-mechanical and chemical characteristics of rocks and blankets, terrain stability, etc Subject contents Subject of geological studies, gbirth, composition and assembly withembryos, determination of the age of rocks, periods withemlyne geological past, mineralogy, genesis and material mineral, crystallographic systems, chemical composition of mineral, physical mineral characteristics, mineralisthematics, genetic groups of rocks, magmattic rocks, klasification of magmatic rocks , sedimentary rocks, p decomposition and destruction, transport and sedimentation, diagenesis, lasifi tothe ation of sedimentary rocks , metamorphic rocks, basic principles of metamorphism, classificationsofmetamorphic rocks , prvents of				
Literatura Mandatory Sestanović, S. (1986): Basics of geology and petrography, Zagreb. Basagić, M. (2000): Geology, Sarajevo. Supplementary Tyder, M. & Herak, M. (1972): Petrography and Geology, Zagreb. Pamic, J. (1972): Basics of petrography, Sarajevo. Herak, M. (1984): Geology, Zagreb. Cicic, S. (2002): Geological composition and tectonics of Bosnia and Herzegovina, Sarajevo. Number of active classes Theoretical teaching: 2 Practical teaching: 2 Teaching methods Knowledge score (maximum number of points 100)				
Pre-exam obligations	Points	Final exam	Points	
activity during the lecture	15	written exam		
practical teaching	15	oral exam	30	
seminar work	20			
colloquium	20			
	20			

Study program / study programs;		Earactru		
Study program / study programs:		Forestry		
Type and cycle of studies:		Academic basic studies	of the first cycle	
Case name:	C	LIMATE OF FOREST AN	D URBAN AREAS	
Teacher (surname, sr. letter, name):				
Case status:	IP			
ESPB number:	6			
Condition: Pre-exam obligations fulfilled				
Objective andcase file The aim of the case is to raise and expatible the impact of climate and climate eleme knowledge of the negative climate effect The outcome of the subject is to master phenomena, and their modification by t of climate and climate elements and the negative climate effects on forest cultive Subject contents	ents and the phen cts on forest cultiv r the basics of clir he impact of clima e phenomenon or ation and exploita	omenon on the cultivation ation and exploitation. natology through the study ate factors, understanding the cultivation of phytoce tion.	of phytocenes, and to gain y of climate elements and the essence of the impact enes and the impact of	
Weather and air conditioning, solar ra impact of heat on plants; Water in the a clouds; Precipitation; Air pressure; Dyn on Earth and climate types of Bosnia an	tmosphere; Evap amic processes ir	oration and evapotranspir	ation; Humidity; Fog and	
Literatura Mandatory Segota, T. and Filipcic, A. (1996): "Climatology for Geographers", School Book, Zagreb. Kolic, B. (1988): Forestry ecoclimatology with the basics of physics of the atmosphere. Science book, Belgrade. Supplementary Kolić, B. (1986): Macroclimatic reionization of northeastern Serbia. Faculty of Forestry, University of Belgrade, Belgrade Krstic, M. (2005): Climate characteristics of the height belts of beech forests in Serbia. Monograph Beech in Serbia, Association of Forestry Engineers and Technicians of Serbia and University of Belgrade - Faculty of Forestry, Belgrade.				
Number of active classes				
	cal teaching: 2			
Teaching methods	<u> </u>			
Knowledge score (maximum number	r of points 100)			
Pre-exam obligations	Points	Final exam	Points	
activity during the lecture	15	written exam	1 01110	
practical teaching	15	oral exam	30	
seminar work	20			
colloquium	20			

Study program / study programs:	Forestry				
Type and cycle of studies:	Academic basic studies of the first cycle				
Case name:					
Case name.	PEDOLOGY				
Teacher (surname, sr. letter, name):					
Case status:	0				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
Objective andcase file The aim of the case is to provide the student with basic knowledge of the most significant niche of land ecosystems, soil and sustainable soil management. Such knowledge is necessary for the adoption of knowledge of other niches and elements of the ecosystem. The outcome of the case is to master the sampling skills and basic soil analyses necessary to understand and adopt knowledge of sustainable soil management.					
Subject contents Subject and work of pedology study, pedology development, soil specificity of different ecosystems, soil formation in nature, pedogenetic processes, mineral components of the soil, rock and mineral wear and properties of wear products, organisms as a source of organic soil and its builders, and products of degradation, circulation of substances in the soil system, soil properties as anisotropic and polydispersible natural body, fsorption characteristics; physical aspect of water in the soil; thermal properties of soil and chemical aspect of soilwater, soil migration processes, specific pedogenetic processes, pedogenetic effects, evolutionof soil, soil profile morphology, soil classification.					
Literatura Mandatory Resulović, H., Chustović, H. (2002): Pedology. University textbook, University of Sarajevo. Antić M., Jovic N., Avdalović V. (1990): Pedology. University textbook. It's a science book. Belgrade. Basic, F. (1981): Pedology, University of Zagreb, Agricultural Institute Kriševci, Kriševci. Supplementary Ciric, M., (1984) It's pedology. Light, Sarajevo. Resulović, H., Jovandić, P., Bisic-Hajro, J. (1982): Small paedological manual. Faculty of Agricultural Sciences, University of Sarajevo. Krü4mann, G. (1981) Die Baumschule, Berlin und Hamburg. Burlica, C., Vukorep, I., (1985): Working material for the exercises in the subject Pedology. Faculty of Forestry in Sarajevo.					
Number of active classes					
	I teaching: 2				
Teaching methods					
reaching methods	f = = inte (100)				
-	T DOINTS 100)				
Knowledge score (maximum number of					
Knowledge score (maximum number of Pre-exam obligations	Points Final exam Points				
Knowledge score (maximum number of Pre-exam obligations F activity during the lecture F	PointsFinal examPoints15written exam				
Knowledge score (maximum number of Pre-exam obligations	PointsFinal examPoints15written exam				

Study program / study programs:		Forestry				
Type and cycle of studies:	A	Academic basic studies of the fire	st cycle			
Case name:		DENDROLOGY WITH DENDROMETRY				
Teacher (surname, sr. letter, name):						
Case status:	0					
ESPB number:	6					
Condition: Pre-exam obligations fulfilled						
 Objective andcase file The aim of the case is to gain knowledge of indigenous and alohton tree and shrub species, specific features and the economic and environmental importance of species, measurement and variables in forestry, instruments and elements of propulsion inventory. The outcome of the case is practical knowledge of the use of measuring equipment and the development of the ability to indivudally apply acquired for them. Subject contents The initiator. Measures and measuring systems. Measurement errors. Display metrics . Measuring the tree. Measuring the canopy. Measuring heights. Assessment of the surface of the tree cross-section . The volume of the tree. Sequencingmethod. Volume of fires and wood for chemical processing. Determination of the volume of the tree on the sweat. Shape number and odds . Tree volume tables (construction and application). The volume of the crust. The weight of the tree and its parts. Tree growth and growth. Percentage of growth. Total analysis. Relationships of all tree parameters in the constituent. Biological properties, morphological characteristics, number of species and areal strains of individual genus goosebearers and cryto-semen. Morphological characteristics, intra-perfect variability,areal, special features, and the economic and environmental importance of individual species within these genus. Indigenous and alohtone species of trees and shrubs.						
Literatura Mandatory Jovanovic, B. (1985): Dendrology. Belgrade. Anić, M. (1946): Dendrology. Forestry manual. It's Zagreb. Herman, J. (1971): Forestry dendrology. It's Zagreb. Šilic, C. (2005): Atlas dendroflore (trees and shrubs) of BiH. Obitluk Supplementary Fukarek, P. (1959): Overview of dendroflore B iH, National Forester, Sarajevo. Fukarek, P. (1965): Our deciduous trees and shrubs. Ljubljana Number of active classes Theoretical teaching: 2 Practical teaching: 2						
Knowledge score (maximum numb	per of points 100)					
Pre-exam obligations	Points	Final exam	Points			
activity during the lecture	15	written exam				
practical teaching	15	oral exam	30			
seminar work	20					
colloquium	20					
oonoquium	20					

Study program / study programs:		Forestry				
Type and cycle of studies:		Academic basic studies of the first	cycle			
Case name:		PHYSIOLOGY AND PLANT NUTRITION				
Teacher (surname, sr. letter, name	e):					
Case status:	0					
ESPB number:	6					
Condition: Pre-exam obligations fulfilled						
 Objective andcase file The aim of the case is to gain knowledge of increasing the general productivity of woody species in natural and artificial consistencies and nursery. The outcome of the case is practical knowledge in the management of forest ecosystems in order to increase the general productivity of woody species in natural and artificial consistencies and nurseries. Subject contents The meaning of plant physiology. Forest plants. A plant as a self-regulation cyber system. Culture in vitro and its importance for biotechnology of genetic engineering and tree cloning. Principles of adoption, transport and water emissions. The importance of solar energy for photobiological reactions of organic matter synthesis and the development and survival of life on planet Earth. Photosynthetic pigments of plants as monitors of the sun's light energy, their biosynthesis, concentration. The importance of the respiration process in the transformation of metabolite energy, and the processes of growing and developing plants. Plant diet types. Symptoms of deficiency, excess elements and nutritional needs of plants in the nursery, cultures, seed plantations and natural ingredients. Growth, differentiation, aging, organ waste. Growth inhibitors. Polarity, correlations, abscission, aging and dying plants. Physiological processes of fertilization in wooden species. Plant growth movements. Physiology of the diseased plant, the action of herbicides and the application of 						
Literatura Mandatory Nešković M. et al. (2003): Plant Physiology, NNK-International, Belgrade. Singer-Kozlina B. (2003) Herb physiology, Profi I, Zagreb. Castors R. (1998) Plant physiology, Verzal, Novi Sad. Dubravec K.D., Regula I. (1995) Herb physiology, School Book, Zagreb. Medjedovic S. et al. (2006) Initiating plant fiziology: Laboratory manual. Supplementary Raven P.H. et Johnson G.B. (1999) Biology, WCBC McGraw-Hill, Boston. Taiz L. et Zeiger E. (2002) Plant physiology, Sinauer Associates, Sunderland. Number of active classes Theoretical teaching: 2 Practical teaching: 2						
Knowledge score (maximum nur	mber of points 100)					
Pre-exam obligations	Points	Final exam	Points			
activity during the lecture	15	written exam				
practical teaching	15	oral exam	30			
seminar work	20					
colloquium	20					

Study program / study programs:		Forestry			
Type and cycle of studies:		Academic basic studies of the firs	st cycle		
Case name: PROPERTIES AND PROTECTION OF WOOD					
Teacher (surname, sr. letter, name):					
Case status:	0				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
Objective andcase file	o of puppy offect		owledge of		
The aim of the case is to gain knowledg protection.	e or puppy enect	s, waysor protecting and specific kn			
The outcome of the case is practical know	wledge of the pr	otection of trees fruits and seeds u	otil maturation		
and after that.	swiedge of the pi	olection of trees, mails and seeds di	illi maturation,		
Subject contents					
The purpose of protection, harmful org	anisms and the	impact of abiotic factors methods	of protection.		
forest economic, biological, chemical,					
and practical knowledge are observe					
protection of seeds from insects, mus					
landh and overhead harmfulto: insects					
mountain and coastal forests.			,		
Literatura					
Mandatory					
Igrc-Barcic, J., Maceljski, M., (2001): E	cologically accep	table protection of plants from pests	, Zrinski d.d.		
Chakovec.					
Vajda, Z., (1973rd) Forest protection so					
Maceljski, M., Cvjetković, B., Igrc-Barcio			nstitute for plant		
protection in agriculture and forestry of	he Republic of C	roatia. Printing press MD. Zagreb.			
Supplementary					
Altenkirsh, W., Mayunke, C., Ohnesorge	e, B., (2002) Wal	dschutz auf ökologischer Grundlage	. Eugen Ulmer		
Verlag. Stuttgart.					
Number of active classes					
	al teaching: 2				
Teaching methods					
Knowledge egers (maximum number	of points (100)				
Knowledge score (maximum number		Final ayom	Pointo		
Pre-exam obligations	Points 15	Final exam	Points		
activity during the lecture	15	written exam	30		
practical teaching	20	oral exam	30		
seminar work					
colloquium	20				

Type and cycle of studies: Academic basic studies of the first cycle Case name: FOREST COMMUNICATION Teacher (surname, sr. letter, name): IP Case status: IP ESPB number: 6 Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the subject is to pass on elementary knowledge to students about the problem of forest communications, types of forest communications, and the stages of planning, design, construction and maintenance thereof. The outcome of the case is the ability to apply knowledge independently in practice, with the purpose of addressing the problem of forest communications. Subject contents Animal and motor tow force. Resistance to the movement of the vehicle. Traffic washing on forest roads. The basics of opening forests Inportance, characteristics and division of forest road, planning forest truck roads. Construction of forest roads. Machines for performing works. Types and dimensions of august structures. Braice elements of the forest road. Drainage ditches, and rigols, omissions, coating and support walls. Construction of forest roads. Stachines for performing works. Types and dimensions of august structures. Bridge on forest coads. Stachines for performing works. Types and dimensions of august structures. Bridges on forest roads. Stachines for performing works. Types and dimensions of august structures. Bridges on forest roads. Stachines for perforing works. Types and dimensions of august structures. <th>Study program / study programs:</th> <th></th> <th>Forestry</th> <th></th>	Study program / study programs:		Forestry				
Construction Process Communication Case status: IP ESPB number: 6 Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the subject is to pass on elementary knowledge to students about the problem of forest communications, types of forest communications, and the stages of planning, design, construction and maintenance thereof. The outcome of the case is the ability to apply knowledge independently in practice, with the purpose of addressing the problem of forest communications. Subject contents Animal and motor tow force. Resistance to the movement of the vehicle. Traffic washing on forest roads. The basics of opening forests. Importance, characteristics and division of forest roads. Planning forest truck roads. Turns, passers-by and serpentines. Longitudinal cross-section of the forest road. Planning forest truck roads. Turns, passers-by and serpentines. Longitudinal cross-section of the forest road. Planning forest truck roads. Turns, passers-by and serpentines. Laying zero lines on the field. Radius choice. Route stop. Leveling the route. Record transverse profiles. Literatura Mandatory Pichman, D. (2007): Forest roads. University textbook, Faculty of Forestry. University of Zagreb. Jelicic, V(1983): Forest roads. SIZ forestry and wood industry, Zagreb. Jelicic, V(1975): Forest cable cars, sarajevo jelicić script, V(1974): Bridges and failures on forest roads, Sarajevo. Supplementary Filagle, S(1982): Construction of forest roads and railways, Zagreb. Lalić,	Type and cycle of studies:	A	cademic basic studies of the	e first cycle			
Case status: IP ESPB number: 6 Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the subject is to pass on elementary knowledge to students about the problem of forest communications, types of forest communications, and the stages of planning, design, construction and maintenance thereof. The outcome of the case is the ability to apply knowledge independently in practice, with the purpose of addressing the problem of forests communications. Subject contents Animal and motor tow force. Resistance to the movement of the vehicle. Traffic washing on forest roads. The basics of opening forests. Importance, characteristics and division of forest roads. Planning forest truck roads. Turns, passers-by and serpentines. Longitudinal cross-section of the forest road. Planning forest truck roads. Turns, passers-by and serpentines. Longitudinal cross-section of the forest road, subject struck roads. Surves, Basic elements of the forest road. Drainage ditches, and rigols, omissions, coating and support walls. Construction of forest roads. Machines for performing works. Types and dimensions of august structures. Bridges on forest roads. Forest cable cars. Laying zero lines on the field. Radius choice. Route stop. Leveling the route. Record transverse profiles. Literatura Mandatory Pichman, D. (2007): Forest roads. University textbook, Faculty of Forestry. University of Zagreb. Jelicic, V(1983): Forest roads and roads. SIZ forestry and wood industry, Zagreb. Jelicic, V(1975): Forest cable cars, sarajevo jelicić script, V(1974): Bridges and failures on forest roads, Belgrade. Number of active classe	Case name:		FOREST COMMUNICATION				
ESPB number: 6 Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the subject is to pass on elementary knowledge to students about the problem of forest communications, types of forest communications, and the stages of planning, design, construction and maintenance thereof. The outcome of the case is the ability to apply knowledge independently in practice, with the purpose of addressing the problem of forest communications. Subject contents Animal and motor two force. Resistance to the movement of the vehicle. Traffic washing on forest roads. The basics of opening forests. Importance, characteristics and division of forest road, tilts, nivelettes and vertical curves. Basic elements of the forest road. Drainage ditches, and rigols, omissions, coating and support walls. Construction of forest roads. Machines for performing works. Types and dimensions of august structures. Bridges on forest roads. Forest cable cars. Laying zero lines on the field. Radius choice. Route stop. Leveling the route. Record transverse profiles. Literatura Mandatory Pichman, D. (2007): Forest roads. University textbook, Faculty of Forestry, University of Zagreb. Jelicic, V.(1983): Forest roads and roads. SIZ forestry and wood industry, Zagreb Jelicic, V.(1975): Forest cable cars, sarajevo jelicić script, V.(1974): Bridges and failures on forest roads, Sarajevo. Supplementary Fibgl, S. (1982): Construction of forest roads and railways, Zagreb. Lalić, M.(1990): Abbreviated methods of designing forest roads, Belgrade. Zuideršić, B. (1963): Manual for carving circular curves, Belgrade. Number of active classes Theoretical teaching: 2 Practical teaching: 2 Teaching methods Points Final exam Points </td <td>Teacher (surname, sr. letter, name):</td> <td></td> <td></td> <td></td>	Teacher (surname, sr. letter, name):						
Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the subject is to pass on elementary knowledge to students about the problem of forest communications, types of forest communications, and the stages of planning, design, construction and maintenance thereof. The outcome of the case is the ability to apply knowledge independently in practice, with the purpose of addressing the problem of forest communications. Subject contents Animal and motor tow force. Resistance to the movement of the vehicle. Traffic washing on forest roads. The basics of opening forests. Importance, characteristics and division of forest roads. Planning forest truck roads. Construction of forest roads. Machines for performing works. Types and dimensions, coating and support walls. Construction of forest roads. Screet cable cars. Laying zero lines on the field. Radius choice. Route stop. Leveling the route. Record transverse profiles. Literatura Mandatory Pichman, D. (2007): Forest roads. University textbook, Faculty of Forestry, University of Zagreb. Jelicic, V (1983): Forest roads and roads. SIZ forestry and wood industry, Zagreb Jelicic, V.(1975): Forest cable cars, sarajevo jelicit script, V.(1974): Bridges and failures on forest roads, Sarajevo. Supplementary Fibgl, S. (1982): Construction of forest roads and railways, Zagreb. Laidić, B. (1982): Manual for carving circular curves, Belgrade. Znideršić, B. (1982): Manual for carving circular curves, Belgrade. Znideršić, B. (1982): Manual for carving circular curves, Belgrade. Theoretical teaching: 2 Practical teaching: 2 Practical teaching: 2 Practical teaching: 15 oral exam	Case status:	IP					
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Teaching methodsKnowledge score (maximum number of points 100)Pre-exam obligationsPointsPre-exam obligationsPointsactivity during the lecture15written exampractical teaching15oral exam30seminar work20		teaching: 2					
Pre-exam obligationsPointsFinal examPointsactivity during the lecture15written exam15practical teaching15oral exam30seminar work201516	3	teaching. 2	I				
Pre-exam obligationsPointsFinal examPointsactivity during the lecture15written exam10practical teaching15oral exam30seminar work201010	Knowledge score (maximum number o	points 100)					
activity during the lecture15written exampractical teaching15oral exam30seminar work20			Final exam	Points			
practical teaching15oral exam30seminar work20		15					
seminar work 20		15	oral exam	30			
		20					
	colloquium	20					

Study program / study programs:		Forestry			
Type and cycle of studies:	Δ	cademic basic studies of the first	st cycle		
Case name:		FOREST BIOMETRICS			
Teacher (surname, sr. letter, name):					
Case status:	IP				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
Objective andcase file The goal of the case is to learn ways to reduce data, their table, graphicand descriptive presentation using standard IT tools. Numeric continuous variables are analysed as the most important type of variable in order to model biological empirical distributions. Stochastic relationships of biological phenomena, and ways of assessing the characteristics of basic sample-based sets, are studied. Elementary IT support options are presented in analyzing, solving, and presenting research results. The outcome of the case is practical knowledge of the basic mathematical statistical methods used to solve specific problems in forestry, and the ability to apply the presented method independently. The student should also be able to develop knowledge and ability to analyze numerical and descriptive data using modern technologies. Subject contents Basic terms of statistics and editing of statistical sets. Graphically display statistical sets. Central tendency measures. Variation measures. Measurements of the form of frequency distribution. Theoretical schedules. Random variable. Theoretical schedules. Regression-correlations analysis. Linear regression. Indicators of linear regression. Crivolinian regression Multiple regression. Net correlations. Rank correlation. Representative					
method. Distribution of sample statistics. Interval estimates of basic set parameters. Statistical tests. Literatura Mandatory Sotirović, V., Macanović, A. Statistics, Novi Sad, 2012. Koprivica M. (1997): Forestry biometrics. Forestry Institute. Belgrade. Pranjić A. (1986): Forestry biometrics. Faculty of Forestry, University of Zagreb. Zagreb. Supplementary Macanović, A., Business Statistics, High School of Applied and Legal Sciences Banja Luka, Banja Luka, 2009. Ljubović Ć. (1997): Mathematics. IP Light. Sarajevo. Number of active classes Theoretical teaching: 2 Practical teaching: 2 Practical teaching: 2					
Knowledge score (maximum numb	per of points 100)				
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam			
practical teaching	15	oral exam	30		
seminar work	20				
colloquium	20				
conoquium	20				

ESPB number: 6 Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the case is to acquire an idea of the through the introduction of forest plant communications in the introduction of forest plant communications of the diversity and complexity of the and their polyvalent importance. The outcome of the case is to train students for the most expedient actions in the forest and its Subject contents Subject and task of fitcenology. Mutual relation	FOR D D D D D D D D D D D D D D D D D D D	Herzegovina and neighbo d the characteristics of for s in forestry and give them preserving environmental b	Y orest ecosystems oring areas as est phytocenes the foundation for alance.		
Case name: Teacher (surname, sr. letter, name): Case status: Case status: ESPB number: Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the case is to acquire an idea of th through the introduction of forest plant community knowledge of the diversity and complexity of the and their polyvalent importance. The outcome of the case is to train students f the most expedient actions inthe forest and its Subject contents Subject and task of fitcenology. Mutual relation	FOR D D D D D D D D D D D D D D D D D D D	REST PHYTOCENOLOG getation characteristics of f Herzegovina and neighbo ad the characteristics of for s in forestry and give them preserving environmental b	Y orest ecosystems oring areas as est phytocenes the foundation for alance.		
Teacher (surname, sr. letter, name): Case status: ESPB number: Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the case is to acquire an idea of the through the introduction of forest plant community in the introduction of forest plant community in the introduction of forest plant community of the and their polyvalent importance. The outcome of the case is to train students for the most expedient actions in the forest and its Subject contents Subject and task of fitcenology. Mutual relation	D be ecological and veg unities in Bosnia and the forest blanket, and or everyday activities s rational use while p onships of phytocenes of phytocenesis. The	getation characteristics of f Herzegovina and neighbo Ind the characteristics of for is in forestry and give them preserving environmental b	orest ecosystems ouring areas as est phytocenes the foundation for alance.		
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ESPB number: 6 Condition: Pre-exam obligations fulfilled Objective andcase file 7 The aim of the case is to acquire an idea of the through the introduction of forest plant communications in the introduction of forest plant communication of the diversity and complexity of the and their polyvalent importance. The outcome of the case is to train students for the most expedient actions in the forest and its Subject contents Subject and task of fitcenology. Mutual relation	6 ne ecological and veg unities in Bosnia and the forest blanket, and or everyday activities s rational use while p onships of phytocenes of phytocenesis. The	Herzegovina and neighbo d the characteristics of for s in forestry and give them preserving environmental b	est phytocenes the foundation for alance.		
Condition: Pre-exam obligations fulfilled Objective andcase file The aim of the case is to acquire an idea of th through the introduction of forest plant commu knowledge of the diversity and complexity of the and their polyvalent importance. The outcome of the case is to train students for the most expedient actions in the forest and its Subject contents Subject and task of fitcenology. Mutual relation	ne ecological and veg unities in Bosnia and the forest blanket, and or everyday activities s rational use while p onships of phytocenes of phytocenesis. The	Herzegovina and neighbo nd the characteristics of for s in forestry and give them preserving environmental b	est phytocenes the foundation for alance.		
Pre-exam obligations fulfilled Objective andcase file The aim of the case is to acquire an idea of the through the introduction of forest plant common knowledge of the diversity and complexity of the and their polyvalent importance. The outcome of the case is to train students for the most expedient actions in the forest and itsets Subject contents Subject and task of fitcenology. Mutual relation	unities in Bosnia and the forest blanket, and or everyday activities <u>s rational use while p</u> onships of phytocenes of phytocenesis. The	Herzegovina and neighbo nd the characteristics of for s in forestry and give them preserving environmental b	est phytocenes the foundation for alance.		
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the most expedient actions in the forest and its Subject contents Subject and task of fitcenology. Mutual relation	s rational use while p onships of phytocenes of phytocenesis. The	preserving environmental b	alance. Development of		
Subject and task of fitcenology. Mutual relation	of phytocenesis. The	sis and the environment. D			
Subject contents Subject contents Subject and task of fitcenology. Mutual relationships of phytocenesis and the environment. Development of phytocenesis. Genesis, past and prevalence of phytocenesis. The general legality of the distribution of vegetation. Cartographic display of vegetation. Degradation stages of forests of Mediterranean regions. Thermophilic leaves forests of sub-Mediterranean and inner regions. Mesophilic oak forests. Hygrophilic forests. Beech forests and beech forests and eat with snot. Basiphilic forests of black and white pine. Ammo forests and basiphilic whale forests. Acidophilic four-legged forests. The kneeling of wrinkles and forests of green yoke.					
Literatura Mandatory Stefanović, V. (1986): Fitcenology with a review of forest fi toothpicks of Yugoslavia. Light, Sarajevo. Vukelic, J., Rausch. D. (1998): Forestry fi tocenology and forest fi toothesis in Croatia. Faculty of Forestry, University of Zagreb, Zagreb. Tomic, Z.(2004): Forestry fi tocenology. Faculty of Forestry, University of Belgrade, Belgrade. Supplementary Stefanović, V., et al. (1983): Ecological-vegetation rejonization of Bosnia and Herzegovina. Faculty of Forestry, University of Sarajevo, Sarajevo. Beus, V. (1997): Fitzenology. FBiH Ministry of Education, Science and Sports and "Sarajevo-Publishing" Sarajevo. Vojniković, S. (2007): PhytoSynSyst 1.0 - Interactive guide to forest fi zetnosis of Bosnia and Herzegovina (CD). Association of Forestry Engineers and Technicians of FBiH, Sarajevo.					
Number of active classes Theoretical teaching: 2 Practical tea	ohing 2				
Theoretical teaching:2Practical teachingTeaching methods	aoning. Z				
Knowledge score (maximum number of po	pints 100)				
	ints	Final exam	Points		
	5	written exam			
	5	oral exam	30		
, v	20				
	20				

Study program / study programs:		Forestry		
Type and cycle of studies:		Academic basic studies of the firs	t cycle	
Case name:		MANAGEMENT OF HUMAN RESOL	JRCES	
Teacher (surname, sr. letter, name):				
Case status:	0			
ESPB number:	6			
Condition:				
Fulfilment of pre-exam obligations (30) points).			
Subject objective:				
Introducing students to the necessary				
attitudes and interests towards humar	n resources. Formi	ng a attitude towards progression, se	lection and	
training.				
Outcome of the case:				
Knowledge, skills, aumenity, practical			ces management.	
Withtherule of knowledge in the field of	of numan resources	s and numan management.		
Subject contents:		amont Contant of human recourses		
Theoretical teaching: Defining huma Elements of human resources manag				
human resources. Human resources				
Motivation and reward. Employee edu				
a fluctuation. Absentism.	ication. Advancing	people 3 resources. Oareer manager	nonii. 01/035. 115	
Literature:				
Vasiljevic, Dj.: Human Resources Mar	nagement, NIR, B	rcko International University, Brcko, 2	2015.	
Syfert Zvonko: Human Resources Ma				
Number of active classes	0 /			
Lectures: 2 Exercises: 2 Othe	er forms:	Study research work:	Other hours:	
Methods of teaching:				
Verbal-textual and illustrative-demons	strative. Lectures, e	exercises and consultations, independent	dent and group	
work on the study of relevant sources	; and presenting se	eminar exercises.		
Knowledge score (maximum number of points 100)				
Pre-exam obligations	Points	Final exam	Points	
activity during the lecture	15	written exam		
practical teaching	15	oral exam	30	
seminar work	20			
colloquiums	20			

Study program / study programs:		Forestry			
Type and cycle of studies:	Ac	cademic basic studies of th	e first cycle		
Case name:		FOREST GENETIC	S		
Teacher (surname, sr. letter, name)					
Case status:	0				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
Objective andcase file					
The aim of the subject is to provide forms of plants, which are based on The outcome of the case is training of our today 's needs and to give the	the results of population to participate in the creation of th	on and evolutionary genetics			
Subject contents Historical development of genetics, basic cell structure, chromosomes, DNA, organization levels and genome expression, bases of cell division, general genetics, related genes and recombinations, gender inheritance, extranuclear inheritance, mutations, population genetics, evolutionary genetics, application of biochemical and molecular-genetic research in forestry.					
Literatura Mandatory D. Kajba, D. Ballian (2007): Forestry genetics. Your own bet, Sarajevo. Vidaković, M., A. Krstinić (1985): Genetics and replenishment of forest trees. Liber, Zagreb. Borojević, K. (1986): Genes and population. It's a forum. New Now. Supplementary Eriksson, G. & I. Ekberg (2001): An introduction to forest genetics. Repro, Uppsala. Wright, J.W. (1976): Introduction to forest genetics Academic Press. Paule, L. (1992): Genetics a šl'achtenie lesních drevín. Príroda a.s., Bratislava, 1992. Number of active classes					
	actical teaching: 2				
Teaching methods					
	ber of points 100)				
Knowledge score (maximum num					
Pre-exam obligations	Points	Final exam	Points		
Pre-exam obligations activity during the lecture	Points 15	Final exam written exam			
Pre-exam obligations activity during the lecture practical teaching	Points 15 15		Points 30		
Pre-exam obligations activity during the lecture	Points 15	written exam			

Study program / study programs:		Forestry				
Type and cycle of studies:		Academic basic studies of the first	cycle			
Case name:		MECHANIZATION IN FORESTRY				
Teacher (surname, sr. letter, name)):					
Case status:	0					
ESPB number:	6					
Condition: Pre-exam obligations fulfilled						
Objective andcase file The aim of the subject is to train students to respond to the tasks of selecting and applying technological processes that have the use of machines in their composition. Through knowledge of the interaction effects of numerous factors of application of mechanization (technical, technological, ergonomic, environmental, energy and economic) the student would approach the optimal choice and application of those propulsion and working machines that require modern technical and technological development of forestry in the world and gain experience in the use of machines in forestry practice. The outcome of the subject is the training of students to track teaching from related teaching disciplines in which technological processes imply the application of mechanization, i.e. as the final sequence independently, professionally and responsiblely designing and conducting technological processes at the level of engineering technical knowledge.						
Subject contents Pogon power in forestry and totheritery for choosing machines in forestry. Classifymachine rye in forest exploitation. Carroting,, corpse, splitting, splintering and combined machines. Machines in attracting wood. Aspects of technological applicability and ergonological eligibility of tractors in attracting wood. Winch and cable cars. Mechanized loading and remote transport agents. Classify the cation of machines in the cultivation and protection of forests. Mechanized plants in nurseries production. Mechanization in afforestation. Mechanization in forest protection and protection of wood varieties. Classificationof construction and melioration machines in forestry. Earthling machines and rock work. Compression, drainage and maintenance machines for forest roads .						
Literatura Mandatory Kukušić, B. (1977): Forest exploitation, Faculty of Forestry, Sarajevo Bestak, T. et al. (1973): Mechanization of agriculture, University of Zagreb Hadzic, R. (2003): Construction machinery, Sarajevo Supplementary Stoves, E.et al.(1970): Forstmaschinenkunde, Verlag Paul Parey, Hamburg und Berlin.						
Number of active classes						
	actical teaching: 2					
Teaching methods						
Knowledge score (maximum nun						
Pre-exam obligations	Points	Final exam	Points			
activity during the lecture	15	written exam				
practical teaching	15	oral exam	30			
seminar work	20					
colloquium	20					

Study program / study programs:		Forestry				
Type and cycle of studies:		Academic basic studies of the firs	t cycle			
Case name:		FOREST EXPLOITATION				
Teacher (surname, sr. letter, name):						
Case status:	IP					
ESPB number:	6					
Condition: Pre-exam obligations fulfilled						
Objective andcase file The aim of the subject is to introduce students to today 's importance and perspectives of forest exploitation, with the principles and principles of complex forest exploitation while acquainting practical knowledge of the application of appropriate technologies of work. The outcome of the premise is the visibility of forestry students to organise and conduct technological processes of forest exploitation independently, professionally and responsibly.						
Subject contents Subject of study, importance and perspective of forest exploitation. Restrictions and restrictions onforestexploitation. Presetting and legality of the successful application of technological processes of forest exploitation. General characteristics and requirements for work in forest exploitation. Technologies and technological processes in forest exploitation. Technological processes in modern cutting and making forest wood varieties based on the application of machine aggregates. Technologies for making wood varieties in the warehouse. Terms and definitives attracting wood. Secondary network of roads in the function of attracting wood. Wood-attracting technologies. Characteristics of forest terrains as indicators of the choice of wood attractiontechnology. Remote wood transport. Transporting wood with trucks. Tranport wood by railroad. Water wood transport. The cost of remotely transporting wood. Forest exploitation systems.						
Literatura Mandatory Kukušić, B. (1977): Exploitation of forests. Sarajevo Faculty of Forestry. Sarajevo Popovic, V. et al. (1972): Exploitation of forests. Economic review. Belgrade. Supplementary Turk, Z. (1977): Methodof calculation of the economics of machine work in forestry. Faculty of Biotechnical Sciences in Ljubljana, Institute of Forest and Wood Economy. Ljbleached. Number of active classes						
	teaching: 2					
Teaching methods	<u> </u>					
Knowledge score (maximum number of	points 100)					
	Points	Final exam	Points			
activity during the lecture	15	written exam				
practical teaching	15	oral exam	30			
seminar work	20					
colloquium	20					

Study program / study programs:		Forestry			
Type and cycle of studies:	A	Academic basic studies of the first cycle			
Case name:		FOREST INVENTORY			
Teacher (surname, sr. letter, name)):				
Case status:	IP				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
Objective andcase file The aim of the subject is to introduce students to the most commonly used terms, concepts and methods used in inventory in forestry, to offer the most acceptable statistical design and method for covering the necessary information in accordance with the objectives set in inventory independently or in a team with other specialists; to plan independently the organization and realization of activities in inventory; to use and interpret information obtained on the basis of inventory in forests for different needs and at different levels; to permanently improve their knowledge by following and consulting achievements inthe field of forest inventory. The outcome of the premise is the ostracisation of the application of student inventory of larger territorial units , with us and in the world.					
Subject contents Theoretical basics, task and position of forest inventory, pattern plans in forest inventory, inventory sample, characteristics of the stratified sample, characteristics of the sample group, characteristics of the two-phase sample, sample plans for interruption and category variables, stereometric method of determining the volume of the tree and parts thereof, tree shape indicators, volume table, dendrometric analysis method of tree, continuous inventory, national forest inventory, other inventures in forests.					
Literatura Mandatory Mirković, D., Banković, S. (1993): Dendrometry. Faculty of Forestry, University of Belgrade, Belgrade Pranjić, A., Lukić, N. (1995): Measurement of forests. Forestry facts, University of Zagreb, Zagreb Supplementary Matć, V. (1965): Method of forest inventory for large surfaces. And Part II. Forestry Institute of the Forestry Facultyof Aunts in Sarajevo, Sarajevo. Kangas, A., Maltamo, M. (2006): Forest Inventory. Methodology and Applications. Springer, Netherlands Shiver, B.D., Borders, B.E. (1996): Sampling techniques for forest resource inventory. New York, Chichester, Brisbane, Toronto, Singapore: John Wiley & Sons, Inc					
Number of active classes					
Theoretical teaching: 2 Practical teaching: 2					
Teaching methods					
Knowledge score (maximum num	nber of points 100)				
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam			
practical teaching	15	oral exam	30		
seminar work	20				
colloquium	20				

Study program / study programs:		Forestry			
Type and cycle of studies:	A	Academic basic studies of the first cycle			
Case name:		FOREST TRANSPORT RESOURCES			
Teacher (surname, sr. letter, name):					
Case status:	0				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
 Objective andcase file The aim of the subject is to introduce students to ways of measuring the mechanical sizes of forest machines, the basicparts of forest machines and the assessments of their convenience, the greenness of lubrication oil and the exhaust of internal combustion propulsion engines, as well as aspects of the transmission of forces from wheels to the ground. The outcome of the case is the ability to determine the appropriate use of forest machines while respecting their technicalenvironmental characteristics. Subject contents Razvoj, the basisof the division of forest withtriplets for mechanizing works, measuring the mechanical and ergonomic features of forest machines, parts of forest machinery, breakdown of machinery (meansoflogging and manufacture, equipmentofhanised loading and unloading, special forest vehicles, machinery for mechanizing nursery production and breeding works in constituents), analysis of dynamic vehicle load, transmission of force from wheel to ground, basic mechanics of motor vehicles, machineryand for the extraction and use of forest biomass as an energy source. 					
Literatura Mandatory Kau, D., (1992): Mechanics of motor vehicles. Technical encyclopedia. WithBinding 1, Zagreb Sever, S., (1992): Technical Encyclopedia, Lexikographic Institute Miroslav Krleza, Zagreb. Supplementary Pichman, D., Pentek, T., (1996): Forestry mechanization, Zagreb. Number of active classes					
Theoretical teaching: 2 Prac Teaching methods	ziicai teaching. Z				
reaching menious					
Knowledge score (maximum number of points 100)					
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam			
practical teaching	15	oral exam	30		
seminar work	20				
colloquium	20				
	20				

Study program / study programs:		Forestry			
Type and cycle of studies:	and cycle of studies: Academic basic studies of the first cycle				
Case name: PRIMARY WOOD PROCESSING					
Teacher (surname, sr. letter, name):					
Case status:	0				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
Objective andcase file The aim of the case is toknow the forest products of wood linings, which arethe raw material basis for wood processing and the ways and features of the techniques and technologies of their acquisition and transport to the wood processing plant. The outcome of the case is the ability to determine the appropriate application of primary wood processing techniques and technologies. Subject contents The problem of cutting and making trees, attracting and remotely transporting wood and their connection and interaction in modern wood extraction technologies , forest exploitation , planning and preparation of work, forest exploitation costs , application of laws, regulations and instructions, production standards and models , models of impact and cost analysis and thresholds viability of the use of technical means and technologies of logging, making and transporting wood as well as models of					
optimal density of roads when opening and forest product production, forest pr waste and structure of waste,bark, effect production and transport, calculation of	consistencies, oduct standardi ts carcasses v	assessment of trees in a deeper s sation, use of tree wood in logging vith a chainsaw, planning of cuttin	tate, tree logging g_and_making, ig works,wood		
Literatura Mandatory Bucan, G., (2001): Material technology for woodprocessing school. Department of Textbooks and Teaching Resources. Belgrade. Supplementary Dykstra, D.P., Heinrich, R., (1996): FAO model code of harvesting practice. The Roma. Grammel, R., (1988): Holzernte und Holztransport. Verlag Paul Parey. Hamburg -Berlin. Silversides, C.R., Sundberg, U., (1989): Operational Efficiency in Forestry – Volume 2: Practice. Kluwer Academic Publishers – Forest Sciences. Dodrechts/Boston/Lancaster. Berg, S., (1992): Terrain Classification System For Forestry Work. Forest Operations Institute "Skagsarbeten".					
Number of active classes	2		Ŭ		
Theoretical teaching: 2 Practical teaching: 2					
Teaching methods					
Knowledge score (maximum number o	of points 100)				
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam			
practical teaching	15	oral exam	30		
seminar work	20				
colloquium	20				
	-		1		

Study program / study programs:		Forestry		
Type and cycle of studies:	A A	Academic basic studies of the first cycle		
Case name: FOREST GROWTH AND YIELD				
Teacher (surname, sr. letter, name):				
Case status:	0			
ESPB number:	6			
Condition: Pre-exam obligations fulfilled				
Objective andcase file The objective of the case is to gain the necessary knowledge with the legalities of the growth and growth of individual trees and consists of the main types of trees, influential effects on growth and growth, The outcome of the case is the ability to determine the appropriate applications of methods of measuring and determining the growth of trees and consistencies and to learn about growth and growth in the field of growing natural and artificially raised consistencies. Subject contents Defining basic terms; growth and growth of individual trees ; tree analysis , view of the growth flow and tree growth in height; a view of the flow of thickness, circular and volume growth and growth of individual trees ; comparison of the growth and growth of different types of trees; development and growth of single-age consistencies, clean and mixed; development and growth of converted consistencies; a representation of factors that define tree growth and development of consistencies; the pundits; the impact of competition on growth and growth; the impact of geomorphological factors on growth and growth; the impact of climate factors on growth and growth; the impact of biological factors on growth and growth; the impact of anthropological factors on growth and growth; determining the link between the elements of growth and economic procedures in one-time and pre-eminent consistencies; modelling of				
	ent on a spatial-time	e scale; ecophysiological, suction and biomodels		
Literatura Mandatory Klepac, D., (1963): Growth and growth. Knowledge. Zagreb. Supplementary Pretzsch, H., (2002): Grundlagen der Waldwachstumsforschung. Parey Buchverlag, Berlin. Pretzsch, H., (2001): Modellirung des Waldwachstums. Parey Buchverlag, Berlin. Fritts, H.C., (1976): Tree Rings and Climate, The Blackburn Press. Caldwell. New Jersey. Assmann, E., (1961): Waldertragskunde. BLV Verlagsgesellschaft, Munich, Bonn, Wien.				
Number of active classes				
¥	tical teaching: 2			
Teaching methods				
	on of mainta 400			
Knowledge score (maximum numb		Final exam Delate		
Pre-exam obligations	Points	Final exam Points		
activity during the lecture	15	written exam		
practical teaching	15	oral exam 30		
seminar work	20			
colloquium	20			

Study program / study programs:		Forestry			
Type and cycle of studies:		Academic basic studies of the first cycle			
Case name: HUNTING					
Teacher (surname, sr. letter, name)):				
Case status:	0				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
space., as well as thelans of huntir The outcome of the case is compet economic grounds, breeding progra	ng ground manageme ence for future maker	ning technology in open hunting gro nt, protected species and their habi s, enforcers and persons for monito ptection programmes.	tat.		
Subject contents Technology of farmingand game in nature, in livestock farming in a fenced area, tehnic elements of fenced hunting grounds and farms, from gamefarms, damage done by game and harm prevention measures, econical elements of game farming, game-giving products, marketing presentation of game and hunting management, quality determination process habitats, determination of hunting ground capacity, preservation of optimal gender ratios and age structure of game, growth planning, farming and wildlife protection measures, protected animal species protection plans and revitalisation of endangered species.					
Literatura Mandatory Darabush,S., and sur., (1980): The lead-up to hunting. Hunting Federation of Croatia,Zagreb. Durantel, P., (2007): Hunting: practical encyclopedia. Leo commerce. It's Zagreb. Kestercanek, F., Z., (1996): Hunting. Hrvatska Hunting Federation. It's Zagreb. Supplementary Cheovic, I., (1953): Hunting. Hunting book. It's Zagreb. Number of active classes					
Theoretical teaching: 2 Practice Practi	actical teaching: 2				
reacting methods					
Knowledge score (maximum number of points 100)					
Pre-exam obligations	Points T00)	Final exam	Points		
activity during the lecture	15	written exam	FUIIIIS		
practical teaching	15	oral exam	30		
seminar work	20		30		
colloquium	20				

Study program / study programs:		Forestry		
Type and cycle of studies:	A	Academic basic studies of the first cycle	9	
Case name: SEEDING, NURSERY AND AFFORESTATION				
Teacher (surname, sr. letter, name):				
Case status:	IP			
ESPB number:	6			
Condition: Pre-exam obligations fulfilled				
 Objective andcase file The aim of the case is to remember knowledge of habitat for the establishment of plantations, to assess the use of newly raised plantations, to selection plant materials, to modify and repair habitats, planting techniques and special economic situations in tree management to different environments. The outcome of the case is the training for the practical application of acquired theoretical knowledge and skills in the management of plantations and trees. Subject contents Forest seeding, forest nursery and tree and shrub plantations, forest seed material, forest seed types, chemical composition, physiological prerequisites for sailing, seed collection and handling, seed finishing, seed quality testing, morphological characteristics of seeds, seed storage, habitat selection for the establishment of forest nurseries, ways of producing plants, ways of growing seedlings, soil processing and storage, extraction and packaging of seedlings, seedling shipments, legal regulation and management in nursery, history of afforestation, reasons for raising plantations, predisposions and				
plantation flaws, selection of species	in afforestation, r	number of plants and density, ways of rather and patrols, rotation of species, lift	aising ,	
Literatura Mandatory Matic, S., Harapin, M., (1986): Growing and protecting forests. Alliance of Engineers and Technicians of Forestry and Wood Industry, Zagreb. Lanzara, P., Pizetti, M., (1984): Trees, Youth Book, Zagreb. Supplementary Krišković, P., (1989): Bioagriculture in practice, Mladost, Zagreb. Burnie, D., (1992): Trees, Mladost, Zagreb. Matic, S., (1994): Forests of high mountains and mountains of the Dinaric area. Ministry of Agriculture and Forestry of the Republic of Croatia,Zagreb. Matic, S., (1991): Forest care in arow. Faculty of Forestry, Zagreb. Number of active classes				
	ical teaching: 2			
Teaching methods				
Knowledge eeere (meximum results	af nainta 100)			
Knowledge score (maximum numbe Pre-exam obligations		Final axam	Points	
activity during the lecture	Points 15	Final exam written exam	FUILS	
practical teaching	15	oral exam	30	
seminar work	20		50	
		<u> </u>		
colloquium	20			

Study program / study programs:		Forestry			
Type and cycle of studies:		Academic basic studies of the first cycle			
Case name:	USING HUNTING FAUNA				
Teacher (surname, sr. letter, name)					
Case status:	IP				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
Objective andcase file The aim of the case is to introduce students to how to use hunting fauna and manage hunting grounds. The outcome of the case is the ability to determine the appropriate activities in the hunting ground and adequate economic financial bossing of hunting grounds.					
Subject contents Principles of modern hunting, breeding, protection, rational use, sustainable development, hunting ground, hunting grounds, basic data on hunting grounds, hunting ground users, hunting ground results, hunting ground status, hunting volume, measures to achieve objectives, measures to raise and protect game, measures to					
prevent damage, economic financial basis of hunting grounds, hunting works, hunting grounds. Literatura Mandatory Radosavljevic, Z., Pantelić, A., Ceranić, A., (1995): Hunter and hunting. Book poljo, Belgrade. Pear, T., (1998): Hunter and game, Alpha, Zagreb. Supplementary Prentovic, R., (2008): The Etika of Hunting Tourism, PMF, Novi Sad. Number of active classes					
	actical teaching: 2				
Teaching methods					
Knowledge score (maximum number of points 100)					
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam			
practical teaching	15	oral exam	30		
seminar work	20				
colloquium	20				

Study program / study programs:		Forestry	
Type and cycle of studies:	Ac	ademic basic studies of the	first cvcle
Case name:		FOREST ENTOMOLOG	
Teacher (surname, sr. letter, nam	e):		
Case status:	0		
ESPB number:	6		
Condition: Pre-exam obligations fulfilled			
Objective andcase file The aim of the case is to gain known and means of combating harmfu The outcome of the case is practive ptaillabelling of the mostimportant suppressing harmful forest insects Subject contents The importance of insects in nature	ul forest insects. cal knowledge in distincti pests of forest trees an s.	onin insects of attacked and h nd knowledge of methods and	ealthy plants,visual I means of
entomology, gbirth ofinsect bodie insects, withimptomies of attacks suppression, ontroll and suppress of plants against harmful insects,	of harmful insects, dijagi ion of insects using other	 and fiziology ofinsects, eins nosis and prognosis, mjera of living organisms, totheoncept 	ect cology, razivo insect control and of integral protection
insects, withimptomies of attacks suppression, ontroll and suppress of plants against harmful insects, Literatura Mandatory Zivojinović, S. (1970): Forestry Er Vajda, Z., 1973: Science on Fores Supplementary Kovacevic, Z. (1952): Entomology It's Hagiristova. Lj. (1995): Forestr Festić, H. (1996): Agricultural ento	of harmful insects, dijagi ion of insects using other isthe most conical lyrical atomology, Institute for Th st Protection, School Book applied. School book Za ry entomology I and Part I	e Issuance of Textbooks SR S c, Zagreb.	ect cology, razivo insect control and of integral protection he region.
insects, withimptomies of attacks suppression, ontroll and suppress of plants against harmful insects, Literatura Mandatory Zivojinović, S. (1970): Forestry Er Vajda, Z., 1973: Science on Fores Supplementary Kovacevic, Z. (1952): Entomology It's Hagiristova. Lj. (1995): Forestr Festić, H. (1996): Agricultural ento Number of active classes	of harmful insects, dijagi ion of insects using other isthe most conical lyrical ntomology, Institute for Th st Protection, School Book applied. School book Za y entomology I and Part I pmology, Light, Sarajevo	e Issuance of Textbooks SR S c, Zagreb.	ect cology, razivo insect control and of integral protection he region.
insects, withimptomies of attacks suppression, ontroll and suppress of plants against harmful insects, Literatura Mandatory Zivojinović, S. (1970): Forestry Er Vajda, Z., 1973: Science on Fores Supplementary Kovacevic, Z. (1952): Entomology It's Hagiristova. Lj. (1995): Forestr Festić, H. (1996): Agricultural ento Number of active classes	of harmful insects, dijagi ion of insects using other isthe most conical lyrical atomology, Institute for Th st Protection, School Book applied. School book Za ry entomology I and Part I	e Issuance of Textbooks SR S c, Zagreb.	ect cology, razivo insect control and of integral protection he region.
insects, withimptomies of attacks suppression, ontroll and suppress of plants against harmful insects, Literatura Mandatory Zivojinović, S. (1970): Forestry Er Vajda, Z., 1973: Science on Fores Supplementary Kovacevic, Z. (1952): Entomology It's Hagiristova. Lj. (1995): Forestr Festić, H. (1996): Agricultural ento Number of active classes Theoretical teaching: 2 F Teaching methods	of harmful insects, dijagi ion of insects using other isthe most conical lyrical atomology, Institute for Th st Protection, School Book applied. School book Za ry entomology I and Part I omology, Light, Sarajevo	e Issuance of Textbooks SR S c, Zagreb.	ect cology, razivo insect control and of integral protection he region.
insects, withimptomies of attacks suppression, ontroll and suppress of plants against harmful insects, Literatura Mandatory Zivojinović, S. (1970): Forestry Er Vajda, Z., 1973: Science on Fores Supplementary Kovacevic, Z. (1952): Entomology It's Hagiristova. Lj. (1995): Forestr Festić, H. (1996): Agricultural ento Number of active classes Theoretical teaching: 2	of harmful insects, dijagi ion of insects using other isthe most conical lyrical atomology, Institute for Th st Protection, School Book applied. School book Za ry entomology I and Part I omology, Light, Sarajevo	e Issuance of Textbooks SR S c, Zagreb.	ect cology, razivo insect control and of integral protection he region.
insects, withimptomies of attacks suppression, ontroll and suppress of plants against harmful insects, Literatura Mandatory Zivojinović, S. (1970): Forestry Er Vajda, Z., 1973: Science on Fores Supplementary Kovacevic, Z. (1952): Entomology It's Hagiristova. Lj. (1995): Forestr Festić, H. (1996): Agricultural ento Number of active classes Theoretical teaching: 2 F Teaching methods Knowledge score (maximum nu	of harmful insects, dijagi ion of insects using other isthe most conical lyrical ntomology, Institute for Th st Protection, School Book applied. School book Za ry entomology I and Part I pmology, Light, Sarajevo Practical teaching: 2	e Issuance of Textbooks SR S , Zagreb.	ect cology, razivo insect control and of integral protection he region. erbia, Belgrade. hodius» Skopje.
insects, withimptomies of attacks suppression, ontroll and suppress of plants against harmful insects, Literatura Mandatory Zivojinović, S. (1970): Forestry Er Vajda, Z., 1973: Science on Fores Supplementary Kovacevic, Z. (1952): Entomology It's Hagiristova. Lj. (1995): Forestr Festić, H. (1996): Agricultural ento Number of active classes Theoretical teaching: 2 F Teaching methods Knowledge score (maximum nu Pre-exam obligations	of harmful insects, dijagi ion of insects using other isthe most conical lyrical atomology, Institute for Th st Protection, School Book applied. School book Za y entomology I and Part I pmology, Light, Sarajevo Practical teaching: 2 Imber of points 100) Points	r and fiziology ofinsects, eins nosis and prognosis, mjera of living organisms, totheoncept harmful in sects in BiH and t e Issuance of Textbooks SR S k, Zagreb. greb. I. University «St. Kirill and Met Final exam	ect cology, razivo insect control and of integral protection he region. erbia, Belgrade. hodius» Skopje.
insects, withimptomies of attacks suppression, ontroll and suppress of plants against harmful insects, Literatura Mandatory Zivojinović, S. (1970): Forestry Er Vajda, Z., 1973: Science on Fores Supplementary Kovacevic, Z. (1952): Entomology It's Hagiristova. Lj. (1995): Forestr Festić, H. (1996): Agricultural ento Number of active classes Theoretical teaching: 2 F Teaching methods Knowledge score (maximum nu Pre-exam obligations activity during the lecture	of harmful insects, dijagi ion of insects using other isthe most conical lyrical ntomology, Institute for Th st Protection, School Book applied. School book Za y entomology I and Part I pmology, Light, Sarajevo Practical teaching: 2 Imber of points 100) Points 15	r and fiziology ofinsects, eins nosis and prognosis, mjera of living organisms, totheoncept harmful in sects in BiH and t e Issuance of Textbooks SR S k, Zagreb. greb. I. University «St. Kirill and Met Final exam written exam	ect cology, razivo insect control and of integral protection he region. erbia, Belgrade. hodius» Skopje.

Study program / study programs:		Forestry			
Type and cycle of studies:		Academic basic studies of the first cycle			
Case name:					
Teacher (surname, sr. letter, name):					
Case status:	0				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
Objective andcase file The aim of the case is to gain knowledge of the causes of the disease, their life cycles, visible manifestations of presence on diseased plants and harmful consequences, as well as the methods and means of their control and suppression. The outcome of the case is practical knowledge in distinctionin sick and healthy plants, visual ptaillabelling the presence of diseases and knowledge ofm methods and means of suppressing the disease to act in accordance with the needs. Subject contents Classifications of cation and nomenclature of mushrooms, bfruitscarcity, seeds and young plants, bolesti beech, oak and tame chestnut, maple, ash and fruit trees, poplars and willows, diseases of eating,					
snoring, pines, longitudes, aprons ar phenomena of diseases in the forests Literatura	nd pinetrees, para	sitic flowering plants, an overview	of the mass		
Mandatory Uscuplić, M. (1996): Pathology of forest and decorative trees. Faculty of Forestry, University of Sarajevo, Sarajevo. Glavas, M. (1999): Fungal diseases of forest trees. Faculty of Forestry, University of Zagreb, Zagreb. Supplementary Hartmann, G. et al (2007): Atlas of forest damage. Mediaprint, Zagreb. Agrios, G. (2004): Plant pathology. ELSEVIER Academic Press.					
Number of active classes					
	tical teaching: 2				
Teaching methods					
Knowledge score (maximum number of points 100)					
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam			
practical teaching	15	oral exam	30		
seminar work	20				
colloquium	20				

Study program / study programs:		Forestry		
Type and cycle of studies:	/	Academic basic studies of the first cycle		
Case name:		FOREST PROTECTION		
Teacher (surname, sr. letter, name):				
Case status:	0			
ESPB number:	6			
Condition: Pre-exam obligations fulfilled				
and characteristics of harmful action, an protect forests integral. The outcome of the case is practical kno axisofstaffing students to look at the ha action and the role of useful organisms is protection.	d to make usef wledge in the m rmful effects of	action of agents, to identify the main manifestations ful organisms in forest ecosystems and measuresto nanagement of forest ecosystems with a view to the agents, to observe glavv manifestations of harmful tems and to design measures of integral forest		
Subject contents Task and goal of the case. Protected areas. Stability of the ecosystem. Stability disorders caused by the presence of pests. Stability disorders due to the presence of the cause of the disease. The character of harmful fauna for the stability of the ecosystem. The importance of harmful fauna. Restrictions on the application of pest control and suppression measures. Restrictions on the application of pest control and suppression measures. Components of the ecosystem in the function of controlling and suppressing the causes of the disease. Control and suppress harmful fauna by affecting food chains. A man and his role in the ecosystem. Monitoring harmful agents.				
Literatura Mandatory Vajda, Z., 1973: Science on Forest Protection, School Book, Zagreb. Zivojinović, S. (1958): Forest protection. Science book, Belgrade. Supplementary Group of authors (1981): Manual of reporting and diagnostic forecasting services for forest protection. Alliance of Engineers and Technicians of Forestry and Wood Processing Industry of Yugoslavia, Belgrade. Petrovic N. (1968): Protection of quintuples from game and small rodents. Protection of cetinars, Yugoslav Agricultural Center, Belgrade. Group of authors: 1980-1987: Forestry Encyclopedia I, II, III; Yugoslav Lexikographic Institute Miroslav Krlezagreb, Zagreb. Hukić, M. and Šibalić, S. (2003): Viral hemorrhagic fevers. Off-Set d.o.o., Tuzla.				
Number of active classes Theoretical teaching: 2 Practica	al teaching: 2			
Teaching methods				
Knowledge score (maximum number	of points 100)			
Pre-exam obligations	Points	Final exam Points		
activity during the lecture	15	written exam		
practical teaching	15	oral exam 30		
seminar work	20			
colloquium	20			

Study program / study programs:		Forestry			
Type and cycle of studies:		Academic basic studies of the first	st cycle		
Case name: ECONOMICS OF FORESTRY					
Teacher (surname, sr. letter, name)	:				
Case status:	0				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
Objective andcase file The objective of the case is to gain knowledge to identify the specific action of economic legalities in the forestry activity. The outcome of the case is to create the possibility that economic developments and processes happening in the field of forestry are directed towards sustainable management of forest resources in order to achieve the different requirements of society according to this renewable, natural resource. Subject contents The intake of the case, the content and methods of forestry economics , themind as asocio-economic category, the application of the basis of financymathemes in the economics of forestry, dthe mining system ofproduction, production function, specificities production inforestry, pforestry production and production factors, rezultati productionof thebottom in forestry, ekonomic – reproduction processes in forestry, protitability, capital return rate, vreturn on capital and production prices in forestry, forestry product market , cforestry products, money as a means of commodity exchange, value law and specificaction in forestry,					
 rente in forestry. Literatura Mandatory Ranković, N.(1996): Economics of Forestry, Faculty of Forestry, Belgrade. Bilić, S., Blaznek, G., Bunjo, H., Glišić, J., Opakak, I. Company Economics 1, Mohor's Zalošba/Hermagoras Verlag, Klagenfurt, 2011. Schmithusen, F. (2006): Entrepreneurship in forestry and the wood industry. Faculty of Economics, Belgrade. Supplementary Bilic, S., Kunic, M., Krupić, I. Basics of Economics, High School "Center for Business Studies" Kiseljak, 2010. It's a whip. F. (2004): Initiating economics, Facultyof Economics . Samuelson, P.A. and Northaus, W. (1992): Economics (translated), Mate, Zagreb. 					
Number of active classes					
Theoretical teaching: 2 Pra	ctical teaching: 2				
Teaching methods					
Knowledge score (maximum number of points 100)					
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam			
practical teaching	15	oral exam	30		
seminar work	20				
colloquium	20				

Study program / study programs:		Forestry		
Type and cycle of studies:		Academic basic studies of the firs	st cycle	
Case name: PETROGRAPHY WITH GEOLOGY				
Teacher (surname, sr. letter, name):				
Case status:	IP			
ESPB number:	6			
Condition: Pre-exam obligations fulfilled				
Objective andcase file				
The aim of the subject is to acquire know				
fromembryos in order to get to know comp	olex processes	of rock decomposition, land formati	on to grow	
vegetation and form embosses.				
The outcome of the case is the recognitio				
aesthetic values, understanding the chara		e terrain in order to plan and edit lan	dscapes in	
landscape architecture and protect geodv Subject contents	erse.			
•	the motorial	from the ombruce observatoriation of	notrogonio	
Prelude to the object, onmaterial data or minerals, petrological characteristics of th				
rocks and their application as decorative a				
the process of erosion, transport and accu				
of the rocks of the lithosphere, geotectoni				
formation of embossed materials, charact				
Literatura	eneriee er geet			
Mandatory				
Tider, M., Herak, M., (1966): Petrograp	hy and Geolog	y, School Book Zagreb.		
Supplementary	, 0			
Zebec, V., Cepelak, M., (1984):Volcanoe	es and eruptive	rocks, Mineralological Petrographic	: Museum Zagreb.	
Vragovic, M. & Brajdić V., 1988: Metamor	phic rocks, Cro	atian at theZagreb Genealogy Muse	eum.	
Babić, Lj. & Zebec, V., 1991: Sedimentary	Rocks, Croati	an Natural History Museum Zagreb.		
Number of active classes				
	teaching: 2			
Teaching methods				
Knowledge score (maximum number of points 100)				
Pre-exam obligations	Points	Final exam	Points	
activity during the lecture	15	written exam		
practical teaching	15	oral exam	30	
seminar work	20			
colloquium	20			

Study program / study programs:		Forestry		
Type and cycle of studies:	A	Academic basic studies of the first	st cycle	
Case name: ANTIEROZINE AFFORESTATION				
Teacher (surname, sr. letter, name):			
Case status:	IP			
ESPB number:	6			
Condition: Pre-exam obligations fulfilled				
Objective andcase file The aim of the case is to learn about the phenomena of torrential phenomena, with a focus related to erosion processes, types and ways of degradation of the terrain, as well as the principles of decorating torrential flows. The outcome of the case is to train students to override the dominant degradation processes on concrete field occasions, and on the basis of the knowledge gained through this course they primarily preventively implement measures to prevent the occurrence of erosion on forest terrain. Subject contents In general, eroded forest terrains, biological and technical works inthe sleepof eroded forest terrains,				
construction and technical works, withpecificor editing torrents, with prhymesof new materials in the sle	static barriers, from theanimatement of er epof eroded forest to	atime methods and facilities for edit oded forest surfaces as part of the e errains, microaccumulation and rete ance of facilities anti-influenza and	ing torrents , editing of torrents, ention and their	
Literatura Mandatory Jahic, M. (2006): Torrent editing, Faculty of Forestry, Sarajevo. Jahic, M. (2003): Hydrotechnics, Technical Faculty, Bihać. Supplementary Kostadinov, S. (1996): Torque flows and erosion, Faculty of Forestry, Belgrade. Gavrilović, S. (1972): Engineering about torque flows and erosion, "Construction", Belgrade. Vucicevic, D. (1995): Editing of tortuous flows, Society of Torturers of Yugoslavia, Belgrade. Number of active classes Theoretical teaching: 2				
Teaching methods Knowledge score (maximum number of points 100)				
Pre-exam obligations	Points	Final exam	Points	
activity during the lecture	15	written exam	F UII IIS	
practical teaching	15	oral exam	30	
seminar work	20		30	
colloquium	20			

Study program / study programs:		Forestry		
Type and cycle of studies:		Academic basic studies of the first	st cycle	
Case name: PLANTATION FORESTRY				
Teacher (surname, sr. letter, name):				
Case status:	0			
ESPB number:	6			
Condition: Pre-exam obligations fulfilled				
Objective andcase file The aim of the case is to acquire knowle measures, as well as on meliorationa The outcome of the subject is to train st indirect conversions of low degraded for	and degraded lov udents to mast	w forests into a higher breeding for	n.	
Subject contents				
History oftechi nka in raising forest cu	ltures ; habitat a	nd garbage; landscaping of the p	lantation area ;	
landprocessing, sowing and planting;				
prhymes of fertilizer and garbage when	raising plantation	s; mthe elioration of degraded fore	sts and land and	
their implementation into a higher bree	eding form; tothe	rhythm for the classification of deg	raded beech low	
forests from the point of view of meliora	tion; tortoises; p	oljoprotective forest belts; parks; de	ecoration of the	
appetizers.	-			
Literatura				
Mandatory				
Mekic, F (1998) Nursery and plantation	ns, textbook, Fa	culty of Forestry in Sarajevo.		
Mekic, F. and Višnjić (2005) Implementi	ng care measure	s in unnurtured culturesand.		
Supplementary	-			
Matic, S and others (1992) Forest cultiv	ation, Forest see	dlings, Forest nursery, Monographs	i "Forests in	
Croatia", Zagreb.				
Jovković, B (1952) Forest Seeding and	Nursery, Sarajev	0.		
Lujić, R (1973) Forest melioration, Belgi	rade.			
Number of active classes				
Theoretical teaching: 2 Practic	al teaching: 2			
Teaching methods				
Knowledge score (maximum number	of points 100)			
Pre-exam obligations	Points	Final exam	Points	
activity during the lecture	15	written exam		
practical teaching	15	oral exam	30	
seminar work	20			
colloquium	20			

Study program / study programs:		Forestry			
Type and cycle of studies:	A	cademic basic studies of the firs	st cycle		
Case name:		FOREST PRODUCTS			
Teacher (surname, sr. letter, name):					
Case status:	0				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
Objective andcase file The aim of the case is to gain knowle environmental system provides to per The outcome of the subject is to train are obtained and collected, as well as Subject contents Forest wood products. Wood sorting diametered and quantity calculated. F varieties according to a valid standard Characteristics of mushroom fertility. accommodation, packaging, storage,	ople. students to classify the possibilities for and diameter regula Regulations on how t d. European Standar Chemical compositio	forest products with their necessary their use. ions. Regulations on how dimension o determine the quality of wood lini ds (EN) for forest wood products. No on of mushrooms. Medicinal herbs,	y values, how they ons are ngs. Types of Aushroom world. collection, drying,		
and tree juices. Ethical oils and wood	greenery. Bark and	forest waste.			
Literatura Mandatory Kukušić, B. (1977): Exploitation of forests. Sarajevo Faculty of Forestry. Sarajevo. Popovic, V. et al. (1972): Exploitation of forests. Economic review. Belgrade. Uscuplić, M. (2004): Mushroom World. ANU BiH, Sarajevo. Nikolic, S. Forest Exploitation (script). Faculty of Forestry in Belgrade. Supplementary JUS - Forest exploitation products. EN - Round and saw timber. BAS - Curved and cut wood. Terzic, D. (1970): Study of the chemical composition of greenery of forest trees - raw materials for the production of livestock food concentrate. Special edition of the Faculty of Forestry and the Institute of Forestry in Sarajevo Trezić, D. (1998): Research into the application of the black pine resin method. Edition of the Faculty of Forestry and the Institute of Forestry in Sarajevo. Glawas, S. (1976): Ethical oils. Technical encyclopedia. Edition and edition of the Yugoslav Lexicographic Institute. Zagreb					
Number of active classes Theoretical teaching: 2 Prace	tical teaching: 2				
Teaching methods	nical leaching. Z	II			
Knowledge score (maximum numb	per of points 100)				
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam			
practical teaching	15	oral exam	30		
seminar work	20				
colloquium	20				

Study program / study programs:		Forestry			
Type and cycle of studies:		Academic basic studies of the first	cycle		
Case name: INFORMATION SYSTEMS IN FORESTRY					
Teacher (surname, sr. letter, name)):				
Case status:	0				
ESPB number:	6				
Condition: Pre-exam obligations fulfilled					
Objective andcase file The subject aims to introduce students to new achievements in the implementation of information systems and their possibilities of applying from operational to strategic level in management. The outcome of the case is training witha tudentusing modern software tools and systems to process large amounts of data and benefit results in business. Subject contents Introductory assumptions, platform, database, system modelling, standards, forest cadastre, planning,					
hunting, customer and claims regis		ial overview, cash flows, incentives in ortal.			
Literatura Mandatory Dr Velimir Sotirović, Dr Branislav Egić: Electron business, TIMS, Novi Sad, 2005. Dr Velimir Sotirović, Dr Branislav Egić: Informatic technologies, University textbook, Technical Faculty Zrenjanin, 2005. Supplementary Tomanić, S., Novak, N.: Development of the information system in forestry, Šumarski List, Zagreb. Tomanić, S., B. Meštrić & I. Martinić: IT challenge to the development of forestry, Faculty of Forestry, University of Zagreb, Zagreb. Hasan Hanić: Mmanagement information systems, Belgrade 2004. Overview of the state of IT equipment in forestry institutions and cantonal forest economic societies (9/2005). Proposal for further steps for the development of a single IT system in FBiH forestry (11/2007)					
Number of active classesTheoretical teaching:2Practical teaching:2	actical teaching: 2				
Teaching methods					
Knowledge score (maximum number of points 100)					
Pre-exam obligations	Points	Final exam	Points		
			FUILIS		
activity during the lecture	15 15	written exam	20		
practical teaching		oral exam	30		
seminar work	20				
colloquium	20				

Study program / study programs:		Forestry				
Type and cycle of studies:		Academic basic studies of the first	cycle			
Case name:		TRADE IN FOREST PRODUCT	S			
Teacher (surname, sr. letter, name):					
Case status:	IP					
ESPB number:	6					
Condition: Pre-exam obligations fulfilled						
Objective andcase file The aim of the case is to introduce students to the concept of marketing as a business filosophya and offerthese knowledge necessary for the successful operation of forestry companies in market economy conditions. The outcome of the case is to train students to discuss the specificities of the wood and non-wood products and services market and successfully organize a marketing function in business forestry systems with a full understanding of changes in the dynamics of consumer priorities, the application of the principles of environmental and business ethics and the concept of corporate responsibility in the management of public						
goods. Subject contents						
Subject contents The concept, concept and role of marketing, trade and markets in the market economy, andthestorial development of marketing of forestry products, andthestewardship of market opportunities, arelessons and choice of the target market, marketing mixin forestry, inmaking business contact in the woodtrade and aboutthebrightnessof wood sales, mmanipulation and preparation for the shipment and acquisitionof goods in the wood trade, standards in woodtrade, tothearachterists of the domestic and regional forestry product market, tothearachteristicsof the international forestry product market, rees external trade and technical instruments foreign trade policies, internationalconventions and rules for interpreting trade terms, Incoterms, withbusiness traffic, conclusion of wood sales contracts, colossal and business ethos, corporate responsibilities, p romaine in the consumer priority system and environmentally oriented purchase and saleof forestry products.						
Literatura						
Mandatory Oeršcanin, D., Redzic, A. (1994): Wood trade, Faculty of Forestry, University of Belgrade Glavonjić, B., Petrović, S. (2004): Wood trade, Faculty of Forestry, University of Belgrade. Supplementary Sabadi, R., (1988): Basics of commercial technique, commercial policy and marketing in forestry and wood industry, Faculty of Forestry, University of Zagreb. Kotler, P., (2001): Marketing management, analysis, planning, application and control, Gate, Zagreb.						
Number of active classes						
	actical teaching: 2					
Teaching methods						
	Knowledge score (maximum number of points 100)					
Pre-exam obligations	Points	Final exam	Points			
activity during the lecture	15	written exam				
practical teaching	15	oral exam	30			
seminar work	20					
colloquium	20					

Study program / study programs:		Forestry				
Type and cycle of studies:		Academic basic studies of the	first cycle			
Case name:	EDITING FORESTS					
Teacher (surname, sr. letter, name):						
Case status:	IP					
ESPB number:	6					
Condition: Pre-exam obligations fulfilled						
Objective andcase file The aim of the subject is to introduce principle of continuity of landlords. The outcome of the subject is to train and social planning; that on the the well as permanently and rationally u	students to use theoretical basis of s	forest landlords on elements of science on professional forest rest	spatial, infrastructure toration and care as			
-	landlords shumama on periods, system est landscaping and	a, ondreams of continuityof theite hsand ways of forest landlords , j forest areas, device plans, fore	of production, yields prostorne forest			
tree classification , p roreverse devices, gplans and performance projects. Literatura Mandatory Drinić, P., Bozalo, G. (1979): Spatial editing of beech forests, dishes and snoring depending on the selected bossing system, Sarajevo. Matic, V., et al. (1990): Tables of taxation elements of high and treacherous forests in Bosnia and Herzegovina. Sarajevo. Supplementary Miletić, Z. (1958): Forest editing Part I and Part II, textbook, Belgrade. Klepac, D. (1965): Forest editing, Zagreb. Lelezal, B. 1972): Forest landssystems. Belgrade. Number of active classes						
	tical teaching: 2					
Teaching methods						
Knowledge score (maximum numb						
Pre-exam obligations	Points	Final exam	Points			
activity during the lecture	15	written exam				
practical teaching	15	oral exam	30			
seminar work	20					
colloquium	20					

Study program / study programs:		Forestry			
Type and cycle of studies:	Acade	mic basic studies of the first	cycle		
Case name:					
		GRADUATE WORK			
Teacher (surname, sr. letter, name):					
Case status:	0				
ESPB number:	6				
Condition:					
Fulfilled all teaching obligations.					
Subject objective:					
Developing the ability to connect knowled			actical tasks and		
competence for expert-research rad in the d	omainofforests of the	country.			
Outcome of the case:					
Acquired competences of candidates for pla	nning, programming	and research in the field of fore	stry.		
Contents of thecase:					
Graduate work is a subject on which candid					
different approaches and methods of resear					
Theoretical teaching includes analysis of the					
problems, activity plan during research, ba			methods of data		
collection, access to analysis, interpretation					
The work on the case involves independent					
the topic, reviews different theoretical approa					
of work, defines a methodological approac					
processed on the project. The result of the					
access to creation. The topic of work is seen	and formulated in rela	alion to current theoretical and p	practical problems		
in the field of traffic engineering.					
Literature:					
The choice of literature depends on the topic of thesis.					
Number of active classes					
	Other forms:	Study research work	Other hours:		
Methods of teaching:					
Independent work of candidates.					
Knowledge score: (ratings 6 to 10)					

Study program / study programs:		Forestry		
Type and cycle of studies:		Master's studies		
Case name:	METHODS	RESEARCH AND TECHNIQUES		
Teacher (surname, sr. letter, name):				
Case status:	0			
ESPB number:	8			
Condition:				
Seminar work done and defended				
research subjects.	scientific research work a	and applying them in the handling of different		
Outcome of the case				
Training for independent planning, conce	ption and performance o	f scientific research projects		
Subject contents				
		arch. Study and display literature. Select an		
		nethodology and performance of research		
		experimental data. Processing the results of		
		ion and evaluation of scientific works. Criteria		
		Technical presentations. Reviews of scientific		
		align research work with current trends and terature. Classifications of scientific papers.		
		g samples. Simulation of planning, setting up		
		a and results. Study research work, drawing		
up seminar papers for the projects.	ying, and presenting dat	a and results. Study research work, arawing		
Recommended literature				
1. V. Sotirović, B. Egić, I. Tasic : Method	ology of Scientific Resea	rch. Novi Pazar 2008.		
2. Sotirović-Adamovic: Methodology of s				
Mihajlo Pupin, Zrenjanin 2002.	,	, , , , , , , , , , , , , , , , , , ,		
	cientific research work wi	th EXCEL statistics, University of Novi Sad,		
Technical Faculty Mihajlo Pupin, Zrenjar				
	onal scientific work, Radn	ićki University Radivoj Cirpanov, Novi Sada		
1978.				
5.M. Sarić: General Principles of Scientif	ic Work, Scientific Book E	°		
Number of active classes 4 + Class:		Study research work:		
2 (90) 4 x 15 :	= 60	30		
Teaching methods				
Verbal-text method, illustrative-demonstrative method, cyber/problem method.				
	score (maximum numb			
v	ritten exams – up to 25 p			
oral– up to 25 points				
proj	ect presentation – up to 2			
seminars – up to 25 points				

Study program / study programs:		Forestry				
Type and cycle of studies:		Master's studies				
Case name:		QUANTATIVE GENETICS				
Teacher (surname, sr. letter, name):						
Case status:	0					
ESPB number:	8					
Condition:						
Fulfilment of pre-exam obligations (30 p	oints).					
Subject objective:						
Introducing students to reproduction and			quantitative,			
population and evolutionary genetics with	th examples in fo	orest trees				
Outcome of the case:			and the second second			
The student will be trained tolearn varia	ibility and innerita	ance of qualitative and quantitative p	properties in forest			
treesindependently. Subject contents:						
The parameters of the variability of quar	atitativo proportio	s types and examples of the inherit	tance of			
quantitative properties in forest trees, th						
Inheritance of sex, specifics and genus						
the phenotypes of modifications, phenot						
with hereditary and phenotypic similarity						
structure, gene frequency changes (mig						
populations, genetic drift and testing of						
Literature:	•					
Kajba, D., Ballian, D., (2007): Forestry g	enetics. Faculty	of Forestry, University of Zagreb, Fa	aculty of Forestry,			
University of Sarajevo.						
Eriksson, G., Ekberg, I., (2001): An intr	oduction to fores	t genetics. SLU Repro. It's uppsal.				
Number of active classes			Other hours:			
Lectures: 2 Exercises: 2 Other	forms:	Study research work:				
Methods of teaching:						
Verbal-textual and illustrative-demonstra			ndent and group			
work on the study of relevant sources; and presenting seminar exercises.						
Knowledge score (maximum number of points 100)						
Pre-exam obligations	Points	Final exam	Points			
activity during the lecture	15	written exam				
practical teaching	15	oral exam	30			
seminar work	20					
colloquiums	20					

Study program / study programs:		Forestry					
Type and cycle of studies:		Master's studies					
Case name:		PLANT SYSTEMATICS					
Teacher (surname, sr. letter, name):						
Case status:	0						
ESPB number:	8						
Condition:							
Fulfilment of pre-exam obligations	(30 points).						
Subject objective:							
Introducing students to a great vari	ety of plant worlds	, and the basic features of individua	al systematic groups.				
Outcome of the case: The student will be trained to indep world, categorize plant material an		the biodiversity of the isisthematic and identification system.	divide of the plant				
Subject contents:							
•	a sources for syste	matics, basic characteristics of plar	nts, phytography.				
		ision of the plant world, basic chara					
		plant material, accessories, equipm					
diagrams, flora and vegetation.			,				
Literature:	<u></u>						
Nikolic, T., (2013): Systematic bota			7				
		evolution, geobotany. School book	, Zagreb.				
Hulina, N., (2011): More tree plants							
Nikolic, T., (1996): Herbaric Manua	al. School dook. It's	s Zagreb.					
Electoral literature	votomotio hotom	Alaha Zagrah					
Nikolic, T., (2013): Practitioner of s Dubravec, K., (1996): Botany. Fact							
Number of active classes	ally of Agronomy,	Shiversity of Zagreb. It's Zagreb.					
	other forms:		Other hours:				
	uner ionns.	Study research work:					
Methods of teaching:		a averained and approximations inde	an an along to an along to the				
		s, exercises and consultations, inde	ependent and group				
work on the study of relevant source							
Knowledge score (maximum nu							
Pre-exam obligations	Points	Final exam	Points				
activity during the lecture	15	written exam					
practical teaching	15	oral exam	30				
seminar work	20						
colloquiums	20						

Study program / study programs:		Forestry			
Type and cycle of studies:		Master's studies			
Case name:	GOODS				
Teacher (surname, sr. letter, name):					
Case status:	IP				
ESPB number:	8				
Condition:					
Fulfilment of pre-exam obligations (30) points).				
Subject objective: Introducing students to the needs of s importance and impact of protected a biocenesis. Outcome of the case: The student will be trained to identify	reas for the cons	ervation of biodiversity and natural re	storation of		
The student will be trained to identify knowledge of the problem of nature protection and the environment in the country and the world, and trained to create environmental studies. Subject contents: Creation and development of protection, nature protection needs, protection objectives, categorisation of protected natural goods, natural environment in protected natural goods, tristical valorisation of protected natural goods, nature parks, exceptional qualities, nature reserves, nature monuments, roles and importance of protected areas, categories of protected areas, declaration of protected areas (World heritage areas, biosphere reserves, wetlands of international importance - Ramsar areas, European and world network of geoparks, IUCN categories of protected areas, primary function of national park and nature park, fundamental phenomena of protection, process of protection of new areas – permanent and preventive protection, process of abolishing area protection, development of nature protection in protected areas. Literature: Dudley, N., (2008): Guidelines for Applying Sold Area Management Categories, IUCN, Gland, Switzerland. Martinić, I., (2010): Management of protected areas of nature - planning, development and sustainability. Faculty of Forestry, University of Zagreb. Group of authors (2007): Protected natural goods of Serbia. Belgrade: Ministry of Environmental Protection and Institute for Nature Protection of Serbia.Pantic, N., Belij, S. and Mijovic, D. (1998): Geo-heritage in the system of natural values and its protection in Serbia. Nature protection, 50.					
Number of active classes			Other beyrey		
Lectures: 2 Exercises: 2 Othe	er forms:	Study research work:	Other hours:		
Methods of teaching: Verbal-textual and illustrative-demonstrative. Lectures, exercises and consultations, independent and group work on the study of relevant sources; and presenting seminar exercises. Knowledge score (maximum number of points 100)					
Pre-exam obligations	Points	Final exam	Points		
activity during the lecture	15	written exam	. 51110		
practical teaching	15	oral exam	30		
seminar work	20				
colloquiums	20				
conoquiuma	20				

Study program / study programs:		Forestry					
Type and cycle of studies:		Master's studies					
Case name:		INVESTMENTS IN FORE	STRY				
Teacher (surname, sr. letter, name	e):						
Case status:	IP						
ESPB number:	8						
Condition:							
Fulfilment of pre-exam obligations	(30 points).						
Subject objective:							
Introducing students to the needs of	of investment and s	ustainable development in forestr	у.				
Outcome of the case:							
The student will be trained to ident		e problem of the importance of inv	esting in forestry, and				
trained to create an investment pla	n.						
Subject contents:							
Financing and investments, Extern							
Specificity of balance sheet positio							
show. Links between balance shee							
		sheet and balance sheet of success, Balance sheet of capital flows and funds, investments in forestry,					
Financing of forest management. Investment, significance and homework. Assessment of specific balance							
		ance and homework. Assessment					
sheet positions in forestry. Accoun	ting separation of c	ance and homework. Assessment osts by activity-based costing. Ba	lance sheet analysis.				
sheet positions in forestry. Accoun Analysis of the balance sheet of su	ting separation of c iccess. Determinati	ance and homework. Assessment osts by activity-based costing. Ba on of the results of the operations	lance sheet analysis. of forestry companies.				
sheet positions in forestry. Accoun Analysis of the balance sheet of su Investment calculations. Methods of	ting separation of c uccess. Determinati of investment calcul	ance and homework. Assessment osts by activity-based costing. Ba on of the results of the operations lations; static and dynamic metho	lance sheet analysis. of forestry companies. ds. Static methods of				
sheet positions in forestry. Accoun Analysis of the balance sheet of su Investment calculations. Methods of investment calculations. Cost comp	ting separation of c uccess. Determination of investment calcul parison method. Me	ance and homework. Assessment osts by activity-based costing. Ba on of the results of the operations lations; static and dynamic metho ethod of comparing profits. Investr	lance sheet analysis. of forestry companies. ds. Static methods of nent profitability				
sheet positions in forestry. Accoun Analysis of the balance sheet of su Investment calculations. Methods of investment calculations. Cost comp indicators. Method of refund. Dyna	ting separation of c iccess. Determination of investment calcul parison method. Me mic methods of inve	ance and homework. Assessment osts by activity-based costing. Ba on of the results of the operations lations; static and dynamic methor ethod of comparing profits. Investr estment calculations. Method of c	lance sheet analysis. of forestry companies. ds. Static methods of nent profitability				
sheet positions in forestry. Accoun Analysis of the balance sheet of su Investment calculations. Methods of investment calculations. Cost com indicators. Method of refund. Dyna investments. Assessment of altern	ting separation of c iccess. Determination of investment calcul parison method. Me mic methods of inve	ance and homework. Assessment osts by activity-based costing. Ba on of the results of the operations lations; static and dynamic methor ethod of comparing profits. Investr estment calculations. Method of c	lance sheet analysis. of forestry companies. ds. Static methods of nent profitability				
sheet positions in forestry. Accoun Analysis of the balance sheet of su Investment calculations. Methods of investment calculations. Cost comp indicators. Method of refund. Dyna investments. Assessment of altern Literature:	ting separation of c inccess. Determination of investment calcul parison method. Me mic methods of inve ative use of forests	ance and homework. Assessment osts by activity-based costing. Ba on of the results of the operations lations; static and dynamic metho- ethod of comparing profits. Investr estment calculations. Method of c	lance sheet analysis. of forestry companies. ds. Static methods of nent profitability apital value of				
sheet positions in forestry. Accoun Analysis of the balance sheet of su Investment calculations. Methods of investment calculations. Cost comp indicators. Method of refund. Dyna investments. Assessment of altern Literature: Schmithusen, F. (2006): Entrepren	ting separation of c access. Determination of investment calcul parison method. Me mic methods of inve ative use of forests eurship in forestry a	ance and homework. Assessment osts by activity-based costing. Ba on of the results of the operations lations; static and dynamic method ethod of comparing profits. Investr estment calculations. Method of c	lance sheet analysis. of forestry companies. ds. Static methods of nent profitability apital value of nomics, Belgrade.				
sheet positions in forestry. Accoun Analysis of the balance sheet of su Investment calculations. Methods of investment calculations. Cost comp indicators. Method of refund. Dyna investments. Assessment of altern Literature: Schmithusen, F. (2006): Entrepren Bilić, S., Blaznek, G., Bunjo,	ting separation of c iccess. Determination of investment calcul parison method. Me mic methods of inve ative use of forests eurship in forestry a H., Glišić, J., O	ance and homework. Assessment osts by activity-based costing. Ba on of the results of the operations lations; static and dynamic method ethod of comparing profits. Investr estment calculations. Method of c	lance sheet analysis. of forestry companies. ds. Static methods of nent profitability apital value of nomics, Belgrade.				
sheet positions in forestry. Accoun Analysis of the balance sheet of su Investment calculations. Methods of investment calculations. Cost comp indicators. Method of refund. Dyna investments. Assessment of altern Literature: Schmithusen, F. (2006): Entrepren Bilić, S., Blaznek, G., Bunjo, Zalošba/Hermagoras Verlag, Klago	ting separation of c incress. Determination of investment calcul parison method. Me mic methods of inve ative use of forests eurship in forestry a H., Glišić, J., O enfurt.	ance and homework. Assessment osts by activity-based costing. Ba on of the results of the operations lations; static and dynamic method ethod of comparing profits. Investr estment calculations. Method of c and wood industry, Faculty of Eco pakak, I., (2011): Company E	lance sheet analysis. of forestry companies. ds. Static methods of nent profitability apital value of nomics, Belgrade.				
sheet positions in forestry. Accoun Analysis of the balance sheet of su Investment calculations. Methods of investment calculations. Cost comp indicators. Method of refund. Dyna investments. Assessment of altern Literature: Schmithusen, F. (2006): Entrepren	ting separation of c iccess. Determination of investment calcul parison method. Me mic methods of inve ative use of forests eurship in forestry a H., Glišić, J., O enfurt. 4): Accounting, Littl	ance and homework. Assessment osts by activity-based costing. Ba on of the results of the operations lations; static and dynamic method ethod of comparing profits. Investr estment calculations. Method of c and wood industry, Faculty of Eco pakak, I., (2011): Company E e Book, Novi Sad.	lance sheet analysis. of forestry companies. ds. Static methods of nent profitability apital value of nomics, Belgrade. Economics 1, Mohor's				
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Study program / study programs:	Τ	Forestry				
Type and cycle of studies:		Master's studies				
Case name:	SPATI/	SPATIAL ANALYSIS IN FOREST BOSSING PLANNING				
Teacher (surname, sr. letter, name):						
Case status:	IP					
ESPB number:	8					
Condition:						
Fulfilment of pre-exam obligations (30 poin	its).					
Subject objective:	`					
Introducing students to the skills of using G	IS in spatial a	analysing at a specific forest comple	×X.			
Outcome of the case:						
The student will be trained for practical ap	plication in sp	atial analysing.				
Subject contents:						
Basic information about geographical infor	mation system	is, map types and methodology for	creating seminar			
work.soil protection, water protection, clima						
maps from analogue to digital form, georef	erence, vecto	rization and printing prospects, mak	ting 3D field			
models and spatial analysis.						
Literature:						
Kushan, V., (1994): New techniques of me		nd cartography. It's Zagreb.				
Lovrić, P., (1988): General cartography, SI						
Macarol, S., (2001): Practical geodesy, Za						
Ziegler, T., (1989): Inom Grenzstein zur La	andcarte, Stu	ttgart.				
Number of active classes			Other hours:			
Lectures: 2 Exercises: 2 Other for	ms:	Study research work:				
Methods of teaching:	• .					
Verbal-textual and illustrative-demonstrativ			ndent and group			
work on the study of relevant sources; and presenting seminar exercises.						
Knowledge score (maximum number of points 100)						
5	Points	Final exam	Points			
activity during the lecture	15	written exam				
practical teaching	15	oral exam	30			
seminar work	20	ļ				
colloquiums	20					

Study program / study programs:	Forestry					
Type and cycle of studies:		Master's studies				
Case name:		PLANNING AND BOSSING SHul	ΙΑΜΑ			
Teacher (surname, sr. letter, name):						
Case status:	0					
ESPB number:	8					
Condition:						
Fulfilment of pre-exam obligations (30 poir	nts).					
Subject objective:						
Introducing students to planning and bossi	ng at a specifi	c forest complex.				
Outcome of the case:						
The student will be trained to practically a	pply knowledg	e of forest bossing.				
Subject contents:						
Forest economic basis and annual forest la						
supervision of forest economic base, adop						
tree remittance and land marking, biologic						
biological reproduction, calculation and pa						
for the use of general useful forest function						
sanitary logging and other preventive mea						
confiscation of wood and other forest prod forest land with a special management me		on of placing on the market and stora	age, ioresis and			
Literature:	uiou.					
Pranjić, A., Lukić, N. (1995): Measurement	t of forests Eo	restry facts. University of Zagreb. Z	areh			
Jurković, S., (2004): Park realization of dr						
Loetsch, F., Zöhrer, F., Haller, K.E., (1973			т.			
Davis, L.S. and Johnson, K.N., (1987): Fo			New York			
Number of active classes	i oot managon					
Lectures: 2 Exercises: 2 Other for	ms:	Study research work:	Other hours:			
Methods of teaching:						
Verbal-textual and illustrative-demonstrativ	/e. Lectures. e	exercises and consultations, indepen	dent and group			
work on the study of relevant sources; and			J			
Knowledge score (maximum number of points 100)						
Pre-exam obligations	Points	Final exam	Points			
activity during the lecture	15	written exam				
practical teaching	15	oral exam	30			
seminar work	20					
colloquiums	20					

Study program / study programs:		Forestry	
Type and cycle of studies:		Master's studies	
Case name:	ВА	ASICS OF MODULATING GROWT	H SHUMA
Teacher (surname, sr. letter, name):			
Case status:	IP		
ESPB number:	8		
Condition:			
Fulfilment of pre-exam obligations (30 pc	oints).		
Subject objective:			
Introducing students tooptimal solutions			
action of exogenous and endogenous fa			the diversity of
structure and growth elements consisting	in order to opti	mise the production process	
Outcome of the case:			
The student will be trained as carriers of			process of
producing dendromace and ensuring the	stability of fore	st ecosystems.	
Subject contents:			
Growth-settings and features models, Ba			
Formulating and checking hypotheses, M			
Opportunities and limitations of different			
formulation. Preparation and organizatio			
climate, growth-habitat, competition mod			
models, thickness growth and growth mo			
tree volumes and consistency, consisten			
diversification models, growth and use m growth: the goal of regulating forest grow			
Optimization of dendromasa production.	th, forming dec	isions in the process of regulating it	nest growth.
Literature:			
Pranjić, A., Lukić, N. (1995): Measureme	nt of forests Ec	prestry facts. University of Zagreb. Z	agreb
Jurković, S., (2004): Park realization of			
Loetsch, F., Zöhrer, F., Haller, K.E., (197			т.
Cabaravdić, A., (2012): Planning experin			o Saraievo
Number of active classes			
Lectures: 2 Exercises: 2 Other for	orms.	Study research work:	Other hours:
Methods of teaching:	51110.	olddy foodaron work.	
Verbal-textual and illustrative-demonstra	tive. Lectures. e	exercises and consultations, indeper	ndent and group
work on the study of relevant sources; ar			aon ana group
Knowledge score (maximum number			
Pre-exam obligations	Points	Final exam	Points
activity during the lecture	15	written exam	. 51110
practical teaching	15	oral exam	30
seminar work	20		
colloquiums	20	·	
	20	1	

Study program / study programs:		Forestry				
Type and cycle of studies:		Master's studies				
Case name:		FOREST BIOMASS FOR ENERGY				
Teacher (surname, sr. letter, name):						
Case status:	IP					
ESPB number:	8					
Condition:						
Fulfilment of pre-exam obligations (30) points).					
Subject objective: Getting to know students in the field o among which wood occupies a very s		ass for energy and using renewable	e energy sources,			
Outcome of the case:						
The student will be trained to make pl			ecnnology and			
planning production when using fores	t biomass for energ	gy in forests for different purposes.				
Subject contents:	for onlinear D'	neiene buek eentent enders . T				
A tree as a power source. Regulation						
forest biomass for energy in the mour						
using forest biomass for energy in the						
use technology for now. And phase II						
forest biomass for energy. Daily and u work in the business of using forest bi						
Forest biomass storage technology. E						
production. It's a screw-up	inquetting totest bit		01 101631 010111033			
Literature:						
Calle, F. R., P. de Groot, S. L. (2007):	· Bioenerov for a si	stainable environment The Bioma	ss Assessment			
Handbook, Hemstock, J. Woods, EAF						
Kaltschmitt, M., Streicher, W., Wiese,		able Energy – Technology, Econom	ics and			
Environment, Springer-Verlag, Berlin-						
Udović, B., (1988): Energy and energy		Book, Belgrade, 1988,				
Lajos, J., (2006): Energy processes a						
Udovićić, B. (1993): Energy. School b						
Kalea, M. (2006): Unconventional ene		Osijek, Osijek.				
Number of active classes		· ·	Otherhouse			
	er forms:	Study research work:	Other hours:			
Methods of teaching:		· · · ·				
Verbal-textual and illustrative-demons	strative. Lectures, e	exercises and consultations, indepe	ndent and group			
work on the study of relevant sources			ũ ,			
Knowledge score (maximum numb						
Pre-exam obligations	Points	Final exam	Points			
activity during the lecture	15	written exam				
practical teaching	15	oral exam	30			
seminar work	20					
colloquiums	20	1				
		1	I			

Study program / study programs:		Forestry	
Type and cycle of studies:		Master's studies	
Case name:	BIOTEC	HNOLOGY IN THE BREEDING OF	WOODEN SPECIES
Teacher (surname, sr. letter, name):			
Case status:	IP		
ESPB number:	8		
Condition:			
Fulfilment of pre-exam obligations (3	30 points).		
Subject objective:			
Introducing students tobiotechnology	y's reproduction of	of tree species for the purposes of re	efinement and
plantation forestry programs.			
Outcome of the case:			
The student will be trained to produ	ce forest reprodu	ctive material through macropropag	ation and
micropropagation methods.			
Subject contents:			
An initiation into tree reproduction bi			
reproductive material. Mass vegetat			
embryogenesis. Production of artific	ial seeds. Produc	tion of seedlings from protoplast. Re	ejuvenation. Mycory
symbiosis.			
Literature:			
Calle, F. R., P. de Groot, S. L. (2007		a sustainable environment, The Blor	nass Assessment
Handbook, Hemstock, J. Woods, EA		Accrew Hill Destan	
Raven P.H. et Johnson G.B. (1999) Taiz L. et Zeiger E. (2002) Plant phy			
Number of active classes	Slology, Sinauer	Associates, Sundenand.	
	her forms:	Study research work:	Other hours:
Methods of teaching:		Study research work.	
Verbal-textual and illustrative-demor	ostrativo Locturo	s evercises and consultations inde	nendent and aroun
work on the study of relevant source			pendent and group
Knowledge score (maximum num			
Pre-exam obligations	Points	Final exam	Points
activity during the lecture	15	written exam	
practical teaching	15	oral exam	30
seminar work	20		
colloquiums	20		
	20		

Study program / study programs:		Forest		
Type and cycle of studies:	Master's studies			
Case name:	INDUS	STRIAL PRODUCTION	OF MEDIC	INAL PLANTS
Teacher (surname, sr. letter, name):				
Case status:	IP			
ESPB number:	8			
Condition:				
Fulfilment of pre-exam obligations (30 poi	nts).			
Subject objective:				
Introducing students to the importance, w	ay and technol	ogies of the production	of forest an	d medicinal herbs.
Outcome of the case:				
The student will be trained to practically a	apply knowledg	e of new trends and tec	chnologies i	n industrial
production of medicinal herbs.				
Subject contents:				
The importance of modern production of I				
seeds (collection, sowing, stratification me	ethods); vegeta	tive pathway (from rhize	omes, mole	s, tableons, bulbs,
seeds (collection, sowing, stratification me root sharing, tissue culture). Production te	ethods); vegeta chnology: outo	ative pathway (from rhize loor growing, in plastics	omes, mole s, in containe	s, tableons, bulbs, ers. Land
seeds (collection, sowing, stratification me root sharing, tissue culture). Production te processing. Care, treatment, prevention.	ethods); vegeta chnology: outo Care (picking, f	ative pathway (from rhize loor growing, in plastics illing empty places, dus	omes, mole , in containe ting, dug, th	s, tableons, bulbs, ers. Land ninning). Prevention
seeds (collection, sowing, stratification me root sharing, tissue culture). Production te processing. Care, treatment, prevention. ((protection against diseases and pests). F	ethods); vegeta chnology: outo Care (picking, f Pouring (drop p	ative pathway (from rhize loor growing, in plastics illing empty places, dus er drop, surface pouring	omes, mole s, in containe sting, dug, th g, spraying v	s, tableons, bulbs, ers. Land iinning). Prevention via spray, etc.).
seeds (collection, sowing, stratification me root sharing, tissue culture). Production te processing. Care, treatment, prevention. ((protection against diseases and pests). F Storage: a) organic fertilisers (stand, com	ethods); vegeta cchnology: outo Care (picking, f Pouring (drop p post, peat, gre	ative pathway (from rhize loor growing, in plastics illing empty places, dus er drop, surface pouring en fertilizer and hummu	omes, mole s, in containe sting, dug, th g, spraying v s); b) miner	s, tableons, bulbs, ers. Land iinning). Prevention via spray, etc.). al fertilisers (nipple,
seeds (collection, sowing, stratification me root sharing, tissue culture). Production te processing. Care, treatment, prevention. ((protection against diseases and pests). F Storage: a) organic fertilisers (stand, com phosphorus, potassium and calcium). New	ethods); vegeta cchnology: outo Care (picking, f Pouring (drop p post, peat, gre	ative pathway (from rhize loor growing, in plastics illing empty places, dus er drop, surface pouring en fertilizer and hummu	omes, mole s, in containe sting, dug, th g, spraying v s); b) miner	s, tableons, bulbs, ers. Land iinning). Prevention via spray, etc.). al fertilisers (nipple,
seeds (collection, sowing, stratification me root sharing, tissue culture). Production te processing. Care, treatment, prevention. ((protection against diseases and pests). F Storage: a) organic fertilisers (stand, com phosphorus, potassium and calcium). New Literature:	ethods); vegeta echnology: outo Care (picking, f Pouring (drop p post, peat, gre w trends in pro	ative pathway (from rhize loor growing, in plastics illing empty places, dus er drop, surface pouring en fertilizer and hummu duction. Use of polymer	omes, mole s, in containe sting, dug, th g, spraying v s); b) miner	s, tableons, bulbs, ers. Land iinning). Prevention via spray, etc.). al fertilisers (nipple,
seeds (collection, sowing, stratification me root sharing, tissue culture). Production te processing. Care, treatment, prevention. ((protection against diseases and pests). F Storage: a) organic fertilisers (stand, com phosphorus, potassium and calcium). New Literature: McVicar, J., (2006): Medicinal and herbs,	ethods); vegeta echnology: outo Care (picking, f Pouring (drop p post, peat, gre w trends in pro Naklada Ulix,	ative pathway (from rhize loor growing, in plastics illing empty places, dus er drop, surface pouring en fertilizer and hummu duction. Use of polymer Rijeka.	omes, mole s, in containe ting, dug, th g, spraying v s); b) miner -organic ori	s, tableons, bulbs, ers. Land iinning). Prevention via spray, etc.). al fertilisers (nipple,
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Study program / study programs:		Forestry		
Type and cycle of studies:		Master's studies		
Casename: AFFORESTATION FOR SPECIAL PURPOSES				
Teacher (surname, sr. letter, name):				
Casestatus:	IP			
ESPBnumber:	8			
Condition:				
	points).			
Subject objective:				
Education of students for planning, impl				
(firehouses, naked, surface exploitation			ng the necessary	
knowledge for afforestation planning in	ine with climate	change.		
Outcome of the case:				
The student will be trained in planning,		nd controlling the success of afforesta	tion for special	
purposes and in line with climate chang	€.			
Subject contents:				
An initiation of afforestation techniques.				
success. Afforestation tickles – planning				
exploitation – planning, implementation				
implementation and control of success.				
of success. Afforestation of sands – pla seat belts. Establishment of anti-erosior				
adaptation of natural populations and ar				
Literature:		s and selection and production of plan	iting material.	
Kimmins, J.P., (2004): Forest Ecology.	Prentice Hall Ne			
Davis, L.S. and Johnson, K.N., (1987):			lew York	
Jović, N., Tomic, Z., Burlica, C., Jovan				
basics for afforestation of unprocessed				
Studies, Faculty of Forestry, Belgrade.				
Ranković, N., Ratknić, M. (1993). Asses	sment of the via	bility of investment sourcing forest cu	Iltures, Forestry 6,	
Belgrade.			· · · ·	
Stamenković, V., Ratknić, M. (1995): De	pendence on thi	ckgrowth and vitality of forest trees fro	om climate factors,	
Proceedings 38-39, Forestry Institute, B	elgrade.			
Number of active classes			.	
Lectures: 2 Exercises: 2 Other	orms:	Study research work:	Other hours:	
Methods of teaching:				
Verbal-textual and illustrative-demonstr	able. Lectures	, exercises and consultations, in	dependent and	
group work on the study of relevant so	urces; drafting	and presenting seminar exercises.	•	
Knowledge score (maximum number				
Pre-exam obligations	Points	Final exam	Points	
activity during the lecture	15	written exam		
practical teaching	15	oral exam	30	
seminar work	20			
colloquium-and	20			

Type and cycle of studies:		Forestry			
		Master's studies			
Case name:	PL	PLANNING OF BOSSING IN HUNTING GROUNDS			
Teacher (surname, sr. letter, name):				
Case status:	IP				
ESPB number:	8				
Condition:					
Fulfilment of pre-exam obligations	(30 points).				
Subject objective:					
Introducing students to planning an	nd landlording in hu	nting grounds and certain dedicate	d wholes within forest		
areas (breeding centres - game fai	rms)				
Outcome of the case:					
The student will be trained to succ			s (hunting bases,		
hunting development and intensive	game-raising prog	rams, and annual hunting plans)			
Subject contents:					
The need and importance of compl					
characteristics and specificities of la					
forestry, agriculture and hunting (cl					
basics of planning the raising, prote					
hunting planning; Organisation of h					
grounds); Planning and training of l					
specific); Measures and means to a					
landfill plans and programmes with					
document; Stages of work in the dr	afting of hunting la	adeconing plane and programmer.			
	ilities and their con	struction); Revision of plans and pr			
and emergency audits, and hunting	ilities and their con				
and emergency audits, and hunting Literature:	ilities and their con precords).	struction); Revision of plans and pr	ogrammes (planned		
and emergency audits, and hunting Literature: Williams, B.K., Nichols, J.D., Conro	ilities and their con g records). by, M.J. (2001): An	struction); Revision of plans and pr	ogrammes (planned		
and emergency audits, and hunting Literature: Williams, B.K., Nichols, J.D., Conro estimating and decision making. Ad	ilities and their con g records). by, M.J. (2001): An cademic Press.	struction); Revision of plans and pr alysis and Management of Animal	ogrammes (planned Population. Modeling,		
and emergency audits, and hunting Literature: Williams, B.K., Nichols, J.D., Conro estimating and decision making. Ac Elton,C., (1968): Animal Ecology.	ilities and their con g records). by, M.J. (2001): An cademic Press. Methuen and Co. L	struction); Revision of plans and pr alysis and Management of Animal TD and Science Paperbacks. Lond	ogrammes (planned Population. Modeling, on.		
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Study program / study programs:		Forestry			
Type and cycle of studies:		Master's studies			
Case name:		MASTER'S WORK			
Teacher or teachers (surname,					
middle letter name):					
Case status	0				
ESPB number:	10				
Condition:					
written theme of master's work; the results of original scientific researc	e ability to independently an th in the field of science by a	matic understanding of the selected and d argumentate theapplied methodology and applying literary language; givingconcise, embers of the commission for the defence of			
The ability to achieve scientific research results and confirmationand knowledge and systematic understanding of the selected topic of master 's work; the ability to independently and argumentally explain theapplied methodology and research results; to give concise, clear and argumentative answers to all questions asked by members of the Commission for the Defence of Master 's Work.					
Subject contents					
agreement with the mentor a mast proposes to the Commission for th	er 's paper nto theadvocatin	efence of master's work,after submitting in g scientific council of thedepartment,which f master's work of at least 3 members with			
the University 'senata. The Commission stipulates the assessment report to the Teaching and Scientific Council considered and forwarded to the University Senate for adoption. Positive, and adopted by the University Senate, a report on the assessment of master 's work is submitted to the Commission , which , together with the mentor and candidate , schedules an term of oral defence of master 's work. The oral defence of master 's work first exposes a short exposé about its thesis, the results of its research and contribution to work, and thenanswers questions asked to it by commission members. The defence is considered complete when all commission members exhaust the envisaged questions and the magistrate to answer them. After the Commission's withdrawal and the drafting of the defence minutes, the Commission shall announce the result of the defence. The defense record is forwarded to the University administration.					
Recommended literature					
	ological framework of the ma	aster's theme and the established research			
methodology					
Number of active classes Cla	SS:	Study research work: 8 x 15 = 120			
Teaching methods					
		ng independent original results of scientific			
research on the topic of master 's					
Knowle	dge score (maximum num Defence of master's work:				

Study program / study programs:		Forestry			
Type and cycle of studies:	Do	octoral studies			
Case name:	METHODOLOGY OF	SCIENTIFIC RESEARCH WORK			
Teacher (surname, sr. letter, name):					
Case status:	0				
ESPB number:	8				
Condition:					
Seminar work done and defended					
Object Target Getting acquainted with the methods of sciences research subjects.	entific research work and ap	oplying them in the handling of different			
Outcome of the case					
Training for independent planning, concepti	on and performance of scie	ntific research projects			
Subject contents					
Principles of scientific research work. Methods of scientific research. Study and display literature. Select an area and define a theme and goal of research. Planning, methodology and performance of research experiments. Experiment tracking. Collect, analyze, and display experimental data. Processing the results of the research. Principles of writing scientific work. Types, classification and evaluation of scientific works. Criteria for evaluating a scientist. Writing and elements of doctoral dissertation. Technical presentations. Reviews of scientific papers. Scientific research projects. Ways to formulate and align research work with current trends and reference centres. Data storage and intellectual property. Collecting, recording and quoting scientific literature. Classifications of scientific papers. Demonstration of selected techniques for collecting and analysing samples. Simulation of planning, setting up and building projects. Processing, displaying, and presenting data and results. Study research work, drawing up seminar papers for the projects.					
 Recommended literature 1. V. Sotirović, B. Egić, I. Tasic : Methodology of Scientific Research, Novi Pazar 2008. 2. Sotirović-Adamovic: Methodology of scientific research work, University of Novi Sad, Technical Faculty Mihajlo Pupin, Zrenjanin 2002. 					
3. Sotirović-Adamovic: Methodology of scie	ntific research work with FX	CEL statistics. University of Novi Sad			
Technical Faculty Mihajlo Pupin, Zrenjanin					
4. S. Borojevic: Methodology of expansional scientific work, Radnićki University Radivoj Cirpanov, Novi Sada 1978.					
5.M. Sarić: General Principles of Scientific					
Number of active classes 4 + 2 Class:		Study research work:			
(90) 4 x 15 =	60	30			
Teaching methods					
Verbal-text method, illustrative-demonstrativ		nethod.			
Knowledge score (maximum number of	ooints 100)				

Doctoral studies Control studies KNOWLEDGE MANAGEMENT Teacher: Condition: ESPE number: 8 Condition: Pre-exam obligations fulfilled. Subject objective: Developing students' views on the necessity of applying knowledge management concepts to significantly improve the company's business performance, as well as skills and knowledge about how knowledge is designed, developed and implemented. Outcome of the case: The concept of knowledge, developed and implemented. Subject contents Tappingka teaching: *** The concept of knowledge, different models of knowledge management models Organizational aspect: organizational knowledge management *** Operational aspect company: subiand culture, organizational knowledge management *** *** Operational aspect: organizational knowledge management *** *** Operational aspect: organizational knowledge management *** **** Operational aspect: organizational knowledge management *** ************************************	Study program / study programs:		Forestry				
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through practical work on exercises. Remembering elements of one of the commercial software solutions in this area Help in the drafting and defence of seminar papers Literature 1. Knowledge management, Savić Z., Arsenijević O., Todorović B., Klicek T., FAM 2008. 2. On the way to the age of knowledge, 1, 2, 3, 4 counseling, Zobnatica, Valdanos, N. Sad, Chambers of Works, Faculty of Management, 2003, 2004, 2005, 2006,2007. Number of active classes Other forms: Lectures: 3X15=45 Exercises: 3X15=45 Other forms: Study research work: hours: Methods ofteaching: Verbal-textual and demonstrable methods, methods of papermaking, seminar papers and projects, as well as the step-by-step method are used. Pre-exam obligations Points Final exam Points activity during the lecture 15 oral ispt 30 colloquiums 20 30							
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1. Knowledge management, Savić Z., Arsenijević O., Todorović B., Klicek T., FAM 2008. 2. On the way to the age of knowledge, 1, 2, 3, 4 counseling, Zobnatica, Valdanos, N. Sad, Chambers of Works, Faculty of Management, 2003, 2004, 2005, 2006,2007. Number of active classes Lectures: $3X15=45$ Exercises: $3X15=45$ Other forms: Study research work: hours: Methods ofteaching: Verbal-textual and demonstrable methods, methods of papermaking, seminar papers and projects, as well as the step-by-step method are used. Knowledge score (maximum number of points 100) Pre-exam obligations Points Final exam Points activity during the lecture 15 written exam 90 practical teaching 15 oral ispt 30 colloquiums 20 40		ce of seminar papers					
1. Knowledge management, Savić Z., Arsenijević O., Todorović B., Klicek T., FAM 2008. 2. On the way to the age of knowledge, 1, 2, 3, 4 counseling, Zobnatica, Valdanos, N. Sad, Chambers of Works, Faculty of Management, 2003, 2004, 2005, 2006,2007. Number of active classes Lectures: $3X15=45$ Exercises: $3X15=45$ Other forms: Study research work: hours: Methods ofteaching: Verbal-textual and demonstrable methods, methods of papermaking, seminar papers and projects, as well as the step-by-step method are used. Knowledge score (maximum number of points 100) Pre-exam obligations Points Final exam Points activity during the lecture 15 written exam 90 nots practical teaching 15 oral ispt 30 colloquiums 20 40							
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Number of active classesOtherLectures: 3X15=45Exercises: 3X15=45Other forms:Study research work:Other hours:Methods ofteaching: Verbal-textual and demonstrable methods, methods of papermaking, seminar papers and projects, as well 			bhatica, valdanos, N. Sad, Chami	bers of			
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Lectures: 3X15=45 3X15=45 Other forms: Study research work: nours: Methods ofteaching: Verbal-textual and demonstrable methods, methods of papermaking, seminar papers and projects, as well as the step-by-step method are used. Knowledge score (maximum number of points 100) Pre-exam obligations Points Final exam Points activity during the lecture 15 written exam attraction of a study research work: 30 colloquiums 20 40				Other			
Methods ofteaching: Verbal-textual and demonstrable methods, methods of papermaking, seminar papers and projects, as well as the step-by-step method are used. Knowledge score (maximum number of points 100) Pre-exam obligations Pre-exam obligations Points Final exam Points activity during the lecture 15 practical teaching 15 colloquiums 20		Other forms:	Study research work:	hours:			
Verbal-textual and demonstrable methods, methods of papermaking, seminar papers and projects, as well as the step-by-step method are used. Knowledge score (maximum number of points 100) Pre-exam obligations Points Final exam Points activity during the lecture 15 written exam 10 practical teaching 15 oral ispt 30 colloquiums 20 1			-				
as the step-by-step method are used. Knowledge score (maximum number of points 100) Pre-exam obligations Points Final exam Points activity during the lecture 15 written exam 10 practical teaching 15 oral ispt 30 colloquiums 20	-	ada mathada af nanarma	king cominar papara and projecto				
Knowledge score (maximum number of points 100) Pre-exam obligations Points Final exam Points activity during the lecture 15 written exam Points practical teaching 15 oral ispt 30 colloquiums 20 Image: colloge coll		loos, methods of paperma	king, seminar papers and projects	, as well			
Pre-exam obligationsPointsFinal examPointsactivity during the lecture15written exampractical teaching15oral ispt30colloquiums20	as the step-by-step method are used.						
Pre-exam obligationsPointsFinal examPointsactivity during the lecture15written exampractical teaching15oral ispt30colloquiums20	Knowledge	acoro (maximum numb	or of points 100)				
activity during the lecture15ntspractical teaching15oral ispt30colloquiums20	¥	· · · · · · · · · · · · · · · · · · ·	• •	Doi			
activity during the lecture15written exampractical teaching15oral ispt30colloquiums20	Fre-exam obligations	Foints	Filidi exalli				
practical teaching15oral ispt30colloquiums20	optivity during the last use	46	uritton aven	nis			
colloquiums 20							
			oral ispt	30			
Seminar work 20							
	Seminar work	20					

Study program / study programs:		Forestry	
Type and cycle of studies:		Doctoral studies	
Casename:		COMPARATIVE ANATOMY OF T	HE TREE
Teacher (surname, sr. letter, name)			
Casestatus:	IP		
ESPBnumber:	8		
Condition:			
	(30 points).		
Subject objective:			
Introducing students to macroscopic, species.	mykorscopic and	submicroscopic material of indigenc	ous and alohton tree
Outcome of the case:			
The student will be trained to determi	ning wood in war	ehouses on the ground, industrial pla	ants or samples
submitted, as well as pro determining			
Subject contents:	•		•
The goal, significance and methods of	of working in the a	natomy of the tree. Genesis and dev	elopment of
wooden plants. Cell wall. Macromole	cular components	and their organization in the wall (la	yers of cell wall and
intercellular spaces); guarantors (mat			
permanent tissues) Material of cambi			
of permanent elements. Anatomical r			
resin canals. Anatomy of coniferous t			
for wood as raw material. Anatomical			
Anatomical material of diffusely porou			
ringporous species with hard wood. E			The structure and
characteristics of compression wood	conifer and tensil	e lilies wood.	
Literature:			
Franjić, J., (1998): Practitioner from h	erb anatomy.		
Thirteen, I., (1978): Herb anatomy.			
Bacic, T., (2001): Morphology and a	natomia of herbs	. Faculty of Pedagogical Science. Jo	osip JurStrossmayer
University in Osijek, Osijek.			
Number of active classes	(Other hours:
	er forms:	Study research work:	
Methods of teaching:		· · · · · · · · · · · · · · · · · · ·	
Verbal-textual and illustrative-demon			
group work on the study of relevant			
Knowledge score (maximum numb		<i>.</i>	Delate
Pre-exam obligations	Points	Final exam	Points
activity during the lecture	15	written exam	
practical teaching	15	oral exam	30
seminar work	20		
colloquium-and	20		

Study program / study programs:		Forestry				
Type and cycle of studies:		Doctoral studies				
Case name:		MOLECULAR GENETICS OF FOREST TREES				
Teacher (surname, sr. letter, name):					
Case status:	IP					
ESPB number:	8					
Condition:						
Fulfilment of pre-exam obligations	(30 points).					
Subject objective:						
		ture and function testing in order to as				
polymorphic within and between po	opulations, provena	nces, lines or genotypes of forest tree	es.			
Outcome of the case:						
	the genetic structu	ire, diversity and differentiation of pop	ulations or			
genotypes of forest trees.						
Subject contents:						
		ic information; Genomy-term and defir				
		arkers; Types and characteristics of n				
		nalysis; Basic principles of electrophor				
	of molecular marke	rs in modern forestry; Basics of genet	ic engineering			
Kajba, D., Ballian, D., (2007): Fore	estry genetics. Univ	ersity of Sarajevo. Sarajevo.				
		ishment of forest trees. Liber, Zagreb.				
Borojević, K. (1986): Genes and po Number of active classes	opulation. It's a foru	m. new now.				
)thar formal	Study research works	Other hours:			
	other forms:	Study research work:				
Methods of teaching:	anatrativa Lasturas	avaraises and consultations, indepen	ndant and group			
		, exercises and consultations, independent	ndent and group			
work on the study of relevant source						
Knowledge score (maximum nu Pre-exam obligations	Points Tot	/) Final exam	Points			
0	<u> </u>	written exam	FUILIS			
activity during the lecture practical teaching	15		30			
seminar work	20	oral exam	30			
	20					
colloquiums	20					

Study program /	study programs	:		Forestry			
Type and cycle	of studies:			Doctoral studies			
Case name:			RESEARCH PAPER FOR THE SELECTION OF TOPICS AND LITERATURE EXAMINATIONS FOR DOCTORAL DISSERTATION				
Teacher (surnar	ne, sr. letter, nai	ne):					
Case status:	· · ·	,	0				
ESPB number:			8				
Condition: fulfilm	nent of pre-exam	obligations	s (30 points)				
Object Target			/				
Outcome of the							
				aching a particular teaching subj			
				doctoral dissertation and specifi	cations of the thematic		
area and concre	ete research task	s on doctor	al dissertatior	ז			
Subject conten	ts						
-							
Study research	work						
The contents of	the case are det	termined by	the methodo	logical area to which the theme	of doctoral		
		as the conc	rete paradigm	natic possibilities that open up ir	the research field of		
the theme of dis	sertation.						
Literature							
	t in cooperation	with the me	entor selects t	he literature provided for the pro	ofiling of the concept		
				methodical field, as well as liter			
covers the selec		ion, nom u	e appropriate		atore that areotry		
Number of acti	ve classes				Other hours:		
Class:	Exercises:	Other form	ns:	Study research work:	4X50		
			-				
Methods of tea	ching:				.		
	0						
Knowledge sco	ore (maximum r	number of p	points 100)				
Pre-exam	obligations	P	oints	Final exam	Points		
activity during th	e lecture		15	written exam			
practical teachin	Ig		15	oral exam	30		
seminar work			20				
colloquium			20				

Study program / study programs:	Fo	restry	
Type and cycle of studies:	Doctoral studies		
Case name:		OF FOREST REPRODUCTIVE	
Teacher (surname, sr. letter, name):			
Case status:	IP		
ESPB number:	8		
Condition:			
Fulfilment of pre-exam obligations (30 poi	nts).		
Subject objective: Familiarisation of students with the proceed namely seeds (in categories of qualified a seedlings for the purposes of plantation for	nd tested - varietal reproductive m	naterial) and dedicated (target)	
Outcome of the case:			
The student will be trained to organize ar			
controlled pollination. Ability to produce cl		g for defining and producing	
dedicated planting matter (target seedling	s)		
Subject contents:			
Production of qualified reproductive mate			
seeds from controlled pollination. Establis			
reproductive material. Define the target se			
type. Combined seeding types. Choice of			
trimming. Morphological quality paramete relationships. Determining the right time to			
seedlings. Handshake and send.	Dextract seedings. Classification,	Dackading and Storage of	
Literature:	ostry college University of Service		
Literature: Gurda, S., (2002): Forestry products. For		vo. Sarajevo.	
Literature: Gurda, S., (2002): Forestry products. For Višnjić, Ć., and sar., (2002): Ecological br	eeding characteristics of beech pa	vo. Sarajevo.	
Literature: Gurda, S., (2002): Forestry products. For Višnjić, Ć., and sar., (2002): Ecological br Forestry college. University of Sarajevo. S	eeding characteristics of beech pa	vo. Sarajevo. nthers in Bosnia and Herzegovina.	
Literature: Gurda, S., (2002): Forestry products. For Višnjić, Ć., and sar., (2002): Ecological br Forestry college. University of Sarajevo. S Number of active classes	eeding characteristics of beech pa Sarajevo.	o. Sarajevo. nthers in Bosnia and Herzegovina.	
Literature:Gurda, S., (2002):Forestry products. ForVišnjić, Ć., and sar., (2002):Ecological brForestry college.University of Sarajevo.Number of active classesLectures:2Exercises:2	eeding characteristics of beech pa Sarajevo.	o. Sarajevo. nthers in Bosnia and Herzegovina.	
Literature:Gurda, S., (2002):Forestry products. ForVišnjić, Ć., and sar., (2002):Ecological brForestry college.University of Sarajevo.Number of active classesLectures:2Exercises:2Methods of teaching:	eeding characteristics of beech pa Sarajevo. rms: Study research v	vo. Sarajevo. nthers in Bosnia and Herzegovina.	
Literature:Gurda, S., (2002): Forestry products. ForVišnjić, Ć., and sar., (2002): Ecological brForestry college. University of Sarajevo. SNumber of active classesLectures: 2Exercises: 2Other foMethods of teaching:Verbal-textual and illustrative-demonstration	eeding characteristics of beech pa Sarajevo. rms: Study research v ve. Lectures, exercises and consu	vo. Sarajevo. nthers in Bosnia and Herzegovina. vork:	
Literature:Gurda, S., (2002):Forestry products. ForVišnjić, Ć., and sar., (2002):Ecological brForestry college.University of Sarajevo.Sumber of active classesLectures:2Exercises:2Other foMethods of teaching:Verbal-textual and illustrative-demonstrativework on the study of relevant sources; and	eeding characteristics of beech pa Sarajevo. rms: Study research v ve. Lectures, exercises and consu d presenting seminar exercises.	vo. Sarajevo. nthers in Bosnia and Herzegovina. vork:	
Literature: Gurda, S., (2002): Forestry products. For Višnjić, Ć., and sar., (2002): Ecological br Forestry college. University of Sarajevo. S Number of active classes Lectures: 2 Exercises: 2 Other for Methods of teaching: Verbal-textual and illustrative-demonstrative work on the study of relevant sources; an Knowledge score (maximum number of the study of	eeding characteristics of beech pa Sarajevo. rms: Study research v ve. Lectures, exercises and consu d presenting seminar exercises.	vo. Sarajevo. nthers in Bosnia and Herzegovina. vork:	
Literature:Gurda, S., (2002): Forestry products. ForVišnjić, Ć., and sar., (2002): Ecological brForestry college. University of Sarajevo. SNumber of active classesLectures: 2Exercises: 2Other foMethods of teaching:Verbal-textual and illustrative-demonstrativework on the study of relevant sources; anKnowledge score (maximum number of Pre-exam obligations	eeding characteristics of beech pa Sarajevo. rms: Study research w ve. Lectures, exercises and consu d presenting seminar exercises. f points 100) Points Final exam	vo. Sarajevo. nthers in Bosnia and Herzegovina. vork: Itations, independent and group	
Literature: Gurda, S., (2002): Forestry products. For Višnjić, Ć., and sar., (2002): Ecological br Forestry college. University of Sarajevo. S Number of active classes Lectures: 2 Chercises: 2 Other for Methods of teaching: Verbal-textual and illustrative-demonstrative work on the study of relevant sources; an Knowledge score (maximum number of Pre-exam obligations activity during the lecture	eeding characteristics of beech pa Sarajevo. Tms: Study research w ve. Lectures, exercises and consu d presenting seminar exercises. f points 100) Points Final exam 15 written exam	vo. Sarajevo. nthers in Bosnia and Herzegovina. vork: Itations, independent and group Points	
Literature:Gurda, S., (2002): Forestry products. ForVišnjić, Ć., and sar., (2002): Ecological brForestry college. University of Sarajevo. SNumber of active classesLectures: 2Exercises: 2Other foMethods of teaching:Verbal-textual and illustrative-demonstrativework on the study of relevant sources; anKnowledge score (maximum number of Pre-exam obligations	eeding characteristics of beech pa Sarajevo. rms: Study research w ve. Lectures, exercises and consu d presenting seminar exercises. f points 100) Points Final exam	vo. Sarajevo. nthers in Bosnia and Herzegovina. vork: Itations, independent and group	

Study program / study programs:		Forestry	
Type and cycle of studies:	Doctoral studies		
Case name:	PLANT	ATION PRODUCTION OF MEDICIN AND SPICE PLANTS	IAL, AROMATIC
Teacher (surname, sr. letter, name):			
Case status:	IP		
ESPB number:	8		
Condition:			
Fulfilment of pre-exam obligations (30 pc	oints).		
Subject objective: Introducing students with the importance herbs	of modern plar	ntation production of medicinal, aron	natic and spice
Outcome of the case:			
The student will be trained to practically	apply knowled	ge of plantation production of medic	inal, aromatic and
herbs.			
Subject contents:			
Trends of interest in medicinal, aromatic			
herbs in plantation production. The import Extracts, parts of the healing plant. It's ar			
species in relation to objective circumsta			
technology. Care, treatment, prevention.			
ha. Placement: as a semi-product, as an			
oils, dried drugs). Stages of development			
Literature:	·		
Viovilović, I., (2014): Production and pro	cessing of med	licinal and aromatic herbs. Lifelong	earning facility of
the Magistrate. Pula.	-	_	
Tucakov, J., (1954): Medicinal herbs in th			
Lange, D., Schippmann, U., (1997): Trad			ution to
International Plant Specification Conserv			
Laird, S.A., (1999): The botany medicine		e commercial use of biodiversity: ac	cess to genetic
resources and benefit-sharing. Earthscar		filière "Diantas Arematiques 9 Mad	ining any the stee
Adossides, A., (2003): Strategie et politic Project Assistance.	lue agricole. La	millere Plantes Afomatiques & Med	icineles. Its a lao.
Number of active classes			
Lectures: 2 Exercises: 2 Other for	orms:	Study research work:	Other hours:
Methods of teaching:			
Verbal-textual and illustrative-demonstrative	tive. Lectures.	exercises and consultations. indepe	ndent and aroup
work on the study of relevant sources; ar			3 F
Knowledge score (maximum number of			
Pre-exam obligations	Points	Final exam	Points
activity during the lecture	15	written exam	
practical teaching	15	oral exam	30
seminar work	20		
colloquiums	20		

Study program / study programs:		Forestry	
Type and cycle of studies:		Doctoral studies	
Case name:		ANISATION, CONSTRUCTION TEC AGEMENT OF CONSTRUCTION C FORESTRY	
Teacher (surname, sr. letter, name):		
Case status:	IP		
ESPB number:	8		
Condition:			
Fulfilment of pre-exam obligations ((30 points).		
Subject objective:			
Getting to know students in the field			ment of the
construction of all kinds of low-rise	buildings in forestry	/.	
Outcome of the case:			
The student will be trained to creat			ds and buildings on
them, as well as to manage the cor	nstruction of low-rise	e buildings in forestry.	
Subject contents:		Collection in the first second second second	
		of the technological process by the r	
diagram of the progress and by pro management of construction of buil			
cyclogram dynamic plans. Parallel			
		nd financial resources. Initiating dyr	
planning. Structure analysis. Techn			
network dynamic plan. Analysis of			
Optimal time of construction of build			
network plan.	5 ,	, , ,	5 1 5
Literature:			
Pichman, D., (2007): Forest Road	s. University of Zag	ıreb. It's Zagreb.	
Pichman, D., (2007): Forest Road Knuchel, H., (1953): Planning and			e LTD. Edinburgh.
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing.	control in the mana Knowledge. Zagreb	igement forest. T. And A. Constable	e LTD. Edinburgh.
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing. Cavlović, I., (2013): Basics of fores	control in the mana Knowledge. Zagret t editing. University	igement forest. T. And A. Constable of Zagreb. It's Zagreb.	
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing. Cavlović, I., (2013): Basics of fores Davis, L.S. and Johnson, K.N., (198	control in the mana Knowledge. Zagret t editing. University	igement forest. T. And A. Constable	
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing. Cavlović, I., (2013): Basics of fores Davis, L.S. and Johnson, K.N., (198 Number of active classes	control in the mana Knowledge. Zagret t editing. University 87): Forest Manag	gement forest. T. And A. Constable o. of Zagreb. It's Zagreb. ement, McGraw-Hill Book Compan	y, New York.
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing. Cavlović, I., (2013): Basics of fores Davis, L.S. and Johnson, K.N., (1997) Number of active classes Lectures: 2 Exercises: 2 O	control in the mana Knowledge. Zagret t editing. University	igement forest. T. And A. Constable of Zagreb. It's Zagreb.	
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing. Cavlović, I., (2013): Basics of fores Davis, L.S. and Johnson, K.N., (1997) Number of active classes Lectures: 2 Exercises: 2 O Methods of teaching:	control in the mana Knowledge. Zagret t editing. University 87): Forest Manag ther forms:	of Zagreb. It's Zagreb. ement, McGraw-Hill Book Compan Study research work:	y, New York. Other hours:
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing. Cavlović, I., (2013): Basics of fores Davis, L.S. and Johnson, K.N., (198 Number of active classes Lectures: 2 Exercises: 2 O Methods of teaching: Verbal-textual and illustrative-demo	control in the mana Knowledge. Zagret t editing. University 87): Forest Manag ther forms:	gement forest. T. And A. Constable of Zagreb. It's Zagreb. ement, McGraw-Hill Book Compan Study research work: , exercises and consultations, indep	y, New York. Other hours:
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing. Cavlović, I., (2013): Basics of fores Davis, L.S. and Johnson, K.N., (199 Number of active classes Lectures: 2 Exercises: 2 O Methods of teaching: Verbal-textual and illustrative-demo work on the study of relevant source	control in the mana Knowledge. Zagret t editing. University 87): Forest Manag ther forms: onstrative. Lectures es; and presenting	ogement forest. T. And A. Constable of Zagreb. It's Zagreb. ement, McGraw-Hill Book Compan Study research work: , exercises and consultations, indep seminar exercises.	y, New York. Other hours:
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing. Cavlović, I., (2013): Basics of fores Davis, L.S. and Johnson, K.N., (198 Number of active classesLectures: 2Exercises: 2OMethods of teaching: Verbal-textual and illustrative-demonstrative-demonstrativeOKnowledge score (maximum num	control in the mana Knowledge. Zagret t editing. University 87): Forest Manag ther forms: onstrative. Lectures es; and presenting nber of points 100	of Zagreb. It's Zagreb. of Zagreb. It's Zagreb. ement, McGraw-Hill Book Compan Study research work: , exercises and consultations, indep seminar exercises.	y, New York. Other hours: pendent and group
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing. Cavlović, I., (2013): Basics of fores Davis, L.S. and Johnson, K.N., (1997) Number of active classes Lectures: 2 Exercises: 2 O Methods of teaching: Verbal-textual and illustrative-demon work on the study of relevant source Knowledge score (maximum num Pre-exam obligations	control in the mana Knowledge. Zagret t editing. University 87): Forest Manag ther forms: onstrative. Lectures es; and presenting nber of points 100 Points	of Zagreb. It's Zagreb. of Zagreb. It's Zagreb. ement, McGraw-Hill Book Compan Study research work: , exercises and consultations, indep seminar exercises.	y, New York. Other hours:
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing. Cavlović, I., (2013): Basics of fores Davis, L.S. and Johnson, K.N., (197Number of active classesLectures: 2Exercises: 2OMethods of teaching: Verbal-textual and illustrative-demo work on the study of relevant sourceOKnowledge score (maximum num Pre-exam obligations activity during the lectureImage: Carlor of the study of the s	control in the mana Knowledge. Zagret t editing. University 87): Forest Manag ther forms: onstrative. Lectures es; and presenting nber of points 100 Points 15	of Zagreb. It's Zagreb. of Zagreb. It's Zagreb. ement, McGraw-Hill Book Compan Study research work: , exercises and consultations, indep seminar exercises.) Final exam written exam	y, New York. Other hours: pendent and group Points
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing. Cavlović, I., (2013): Basics of fores Davis, L.S. and Johnson, K.N., (1997) Number of active classes Lectures: 2 Exercises: 2 O Methods of teaching: Verbal-textual and illustrative-demo work on the study of relevant source Knowledge score (maximum num Pre-exam obligations activity during the lecture practical teaching	control in the mana Knowledge. Zagret t editing. University 87): Forest Manag ther forms: onstrative. Lectures es; and presenting nber of points 100 Points 15 15	of Zagreb. It's Zagreb. of Zagreb. It's Zagreb. ement, McGraw-Hill Book Compan Study research work: , exercises and consultations, indep seminar exercises.	y, New York. Other hours: pendent and group
Knuchel, H., (1953): Planning and Klepac, D., (1965): Forest editing. Cavlović, I., (2013): Basics of fores Davis, L.S. and Johnson, K.N., (197 Number of active classes Lectures: 2 Exercises: 2 O Methods of teaching: Verbal-textual and illustrative-demo work on the study of relevant source Knowledge score (maximum num Pre-exam obligations activity during the lecture	control in the mana Knowledge. Zagret t editing. University 87): Forest Manag ther forms: onstrative. Lectures es; and presenting nber of points 100 Points 15	of Zagreb. It's Zagreb. of Zagreb. It's Zagreb. ement, McGraw-Hill Book Compan Study research work: , exercises and consultations, indep seminar exercises.) Final exam written exam	y, New York. Other hours: pendent and group Points

Study program / study programs: Type and cycle of studies:	Forestry	
	Doctoral studies	
Case name:	DEGRADATION, PROTECTION, USE A	AND MELIORATION OF
Feacher (surname, sr. letter, name):		
Case status:	IP	
ESPB number:	8	
Condition:		
Fulfilment of pre-exam obligations (30 po	nts).	
Subject objective:		
	esource, analysing the process of degradation	
	s to protection, revitalization, revitalization ar	nd remediation of land.
Outcome of the case:		
	erform experimental research on scientific group	
analysis and interpretation of analytical re	sults and their presentation through oral pres	sentation and written
eport		
Subject contents:		
	efinition of land degradation. The causes of d	
	he earth. Characteristics that affect sensitivity	
Physical degradation and taking of land n	ass – erosion. Degradation with in-situ dama	age. Sources and types
Physical degradation and taking of land n of pollutants Degradation of physical and	nass – erosion. Degradation with in-situ dama chemical properties as a result of natural and	age. Sources and types d anthropogenic
Physical degradation and taking of land n of pollutants Degradation of physical and nfluences. The impact of economic activi	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land o	age. Sources and types d anthropogenic damage processes.
Physical degradation and taking of land n of pollutants Degradation of physical and nfluences. The impact of economic activi _egislation and directives to prevent land	nass – erosion. Degradation with in-situ dama chemical properties as a result of natural and	age. Sources and types d anthropogenic damage processes.
Physical degradation and taking of land n of pollutants Degradation of physical and nfluences. The impact of economic activi _egislation and directives to prevent land of contaminated and degraded land.	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land o	age. Sources and types d anthropogenic damage processes.
Physical degradation and taking of land n of pollutants Degradation of physical and nfluences. The impact of economic activi _egislation and directives to prevent land of contaminated and degraded land. _iterature:	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land of degradation. Land protection measures. Rer	age. Sources and types d anthropogenic damage processes. mediation and reculption
Physical degradation and taking of land n of pollutants Degradation of physical and nfluences. The impact of economic activi Legislation and directives to prevent land of contaminated and degraded land. Literature: Sokolović, J., Bajrić, M., (2013): Opening	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land of degradation. Land protection measures. Rer forests. Forestry college. University of Sarajo	age. Sources and types d anthropogenic damage processes. mediation and reculption evo. Sarajevo.
Physical degradation and taking of land n of pollutants Degradation of physical and nfluences. The impact of economic activi Legislation and directives to prevent land of contaminated and degraded land. Literature: Sokolović, J., Bajrić, M., (2013): Opening Spaniard,Z., (2005): Meliorations of the r	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land of degradation. Land protection measures. Rer forests. Forestry college. University of Saraju ubble. Forestry college. University of Zagreb	age. Sources and types d anthropogenic damage processes. mediation and reculption evo. Sarajevo. . It's Zagreb.
Physical degradation and taking of land n of pollutants Degradation of physical and nfluences. The impact of economic activi Legislation and directives to prevent land of contaminated and degraded land. Literature: Sokolović, J., Bajrić, M., (2013): Opening Spaniard,Z., (2005): Meliorations of the r Davis, L.S. and Johnson, K.N., (1987): F	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land of degradation. Land protection measures. Rer forests. Forestry college. University of Sarajo	age. Sources and types d anthropogenic damage processes. mediation and reculption evo. Sarajevo. . It's Zagreb.
Physical degradation and taking of land n of pollutants Degradation of physical and nfluences. The impact of economic activi egislation and directives to prevent land of contaminated and degraded land. Literature: Sokolović, J., Bajrić, M., (2013): Opening Spaniard,Z., (2005): Meliorations of the r Davis, L.S. and Johnson, K.N., (1987): F Number of active classes	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land of degradation. Land protection measures. Rer forests. Forestry college. University of Saraju ubble. Forestry college. University of Zagreb orest Management, McGraw-Hill Book Com	age. Sources and types d anthropogenic damage processes. mediation and reculption evo. Sarajevo. . It's Zagreb. pany, New York.
Physical degradation and taking of land n of pollutants Degradation of physical and nfluences. The impact of economic activi egislation and directives to prevent land of contaminated and degraded land. Literature: Sokolović, J., Bajrić, M., (2013): Opening Spaniard,Z., (2005): Meliorations of the r Davis, L.S. and Johnson, K.N., (1987): F Number of active classes Lectures: 2 Exercises: 2 Other for	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land of degradation. Land protection measures. Rer forests. Forestry college. University of Saraju ubble. Forestry college. University of Zagreb orest Management, McGraw-Hill Book Com	age. Sources and types d anthropogenic damage processes. mediation and reculption evo. Sarajevo. . It's Zagreb.
Physical degradation and taking of land n of pollutants Degradation of physical and nfluences. The impact of economic activi Legislation and directives to prevent land of contaminated and degraded land. Literature: Sokolović, J., Bajrić, M., (2013): Opening Spaniard,Z., (2005): Meliorations of the r Davis, L.S. and Johnson, K.N., (1987): F Number of active classes Lectures: 2 Exercises: 2 Other for Methods of teaching:	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land of degradation. Land protection measures. Rer forests. Forestry college. University of Sarajo ubble. Forestry college. University of Zagreb orest Management, McGraw-Hill Book Com rms: Study research work:	age. Sources and types d anthropogenic damage processes. mediation and reculption evo. Sarajevo. . It's Zagreb. pany, New York. Other hours:
Physical degradation and taking of land n of pollutants Degradation of physical and nfluences. The impact of economic activi Legislation and directives to prevent land of contaminated and degraded land. Literature: Sokolović, J., Bajrić, M., (2013): Opening Spaniard,Z., (2005): Meliorations of the r Davis, L.S. and Johnson, K.N., (1987): F Number of active classes Lectures: 2 Exercises: 2 Other for Methods of teaching:	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land of degradation. Land protection measures. Rer forests. Forestry college. University of Saraju ubble. Forestry college. University of Zagreb orest Management, McGraw-Hill Book Com	age. Sources and types d anthropogenic damage processes. mediation and reculption evo. Sarajevo. . It's Zagreb. pany, New York. Other hours:
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Physical degradation and taking of land n of pollutants Degradation of physical and influences. The impact of economic activi egislation and directives to prevent land of contaminated and degraded land. Literature: Sokolović, J., Bajrić, M., (2013): Opening Spaniard,Z., (2005): Meliorations of the r Davis, L.S. and Johnson, K.N., (1987): F Number of active classes ectures: 2 Exercises: 2 Other for Methods of teaching: Verbal-textual and illustrative-demonstrat work on the study of relevant sources; an Knowledge score (maximum number of	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land of degradation. Land protection measures. Rer forests. Forestry college. University of Saraju ubble. Forestry college. University of Zagreb orest Management, McGraw-Hill Book Com rms: Study research work: ve. Lectures, exercises and consultations, in d presenting seminar exercises. f points 100)	age. Sources and types d anthropogenic damage processes. mediation and reculption evo. Sarajevo. . It's Zagreb. pany, New York. Other hours:
Physical degradation and taking of land n of pollutants Degradation of physical and nfluences. The impact of economic activi egislation and directives to prevent land of contaminated and degraded land. Literature: Sokolović, J., Bajrić, M., (2013): Opening Spaniard,Z., (2005): Meliorations of the r Davis, L.S. and Johnson, K.N., (1987): F Number of active classes ectures: 2 Exercises: 2 Other for Methods of teaching: Verbal-textual and illustrative-demonstrat work on the study of relevant sources; an	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land of degradation. Land protection measures. Rer forests. Forestry college. University of Saraju ubble. Forestry college. University of Zagreb prest Management, McGraw-Hill Book Com rms: Study research work: ve. Lectures, exercises and consultations, in d presenting seminar exercises.	age. Sources and types d anthropogenic damage processes. mediation and reculption evo. Sarajevo. . It's Zagreb. pany, New York. Other hours:
Physical degradation and taking of land n of pollutants Degradation of physical and influences. The impact of economic activi egislation and directives to prevent land of contaminated and degraded land. Literature: Sokolović, J., Bajrić, M., (2013): Opening Spaniard,Z., (2005): Meliorations of the r Davis, L.S. and Johnson, K.N., (1987): F Number of active classes ectures: 2 Exercises: 2 Other for Methods of teaching: Verbal-textual and illustrative-demonstrat work on the study of relevant sources; an Knowledge score (maximum number of	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land of degradation. Land protection measures. Rer forests. Forestry college. University of Sarajo ubble. Forestry college. University of Zagreb orest Management, McGraw-Hill Book Com rms: Study research work: ve. Lectures, exercises and consultations, in d presenting seminar exercises. f points 100	age. Sources and types d anthropogenic damage processes. mediation and reculption evo. Sarajevo. . It's Zagreb. pany, New York. Other hours:
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Physical degradation and taking of land n of pollutants Degradation of physical and of pollutants Degradation of physical and nfluences. The impact of economic activi _egislation and directives to prevent land of contaminated and degraded land. _iterature: Sokolović, J., Bajrić, M., (2013): Opening Spaniard,Z., (2005): Meliorations of the r Davis, L.S. and Johnson, K.N., (1987): F Number of active classes _ectures: 2 Exercises: 2 Verbal-textual and illustrative-demonstrat work on the study of relevant sources; an Knowledge score (maximum number of Pre-exam obligations activity during the lecture	hass – erosion. Degradation with in-situ dama chemical properties as a result of natural and ties and technological development on land of degradation. Land protection measures. Rer forests. Forestry college. University of Saraje ubble. Forestry college. University of Zagreb orest Management, McGraw-Hill Book Com rms: Study research work: ve. Lectures, exercises and consultations, in d presenting seminar exercises. f points 100) Points Final exam 15 written exam	age. Sources and types d anthropogenic damage processes. mediation and reculption evo. Sarajevo. . It's Zagreb. pany, New York. Other hours: dependent and group

Study program / study programs:		Forestry		
Type and cycle of studies:		Doctoral studies		
Case name:	PRODUCT	TION AND PUBLICATION OF THE FIRST SCIENTIFIC WORK		
Teacher:				
Case status:	0			
ESPB number:	7			
Condition:				
Object Target				
Training for independent scientific ar	nd research and aut	thorwork.		
Outcome of the case				
Publishing crafted scientific work in publications or magazines of the appropriate scientific rank.				
Subject contents				
Study research work Selection of the appropriate research	n topic, studying rel	evant literature and creating scientific work itself.		
Recommended literature				
Selected relevant literature that abso	Selected relevant literature that absorbs the research task on which scientific work is constructed.			
Number of active classes Clas	SS:	Study research work:		
		6 x 15 = 90		
Teaching methods				
Scientific and research methods dep				
Knowle	Knowledge score (maximum number of points 100)			

Study program / study progran	IS:	Forestry		
Type and cycle of studies:		Doctoral studies		
Case name:		RESEARCH TOPIC 1		
Teacher:				
Case status:	0			
ESPB number:	8			
Condition: no				
Object Target				
The basic research work of ph	O students on the conception o	f the basic structure of doctoral dissertation, on profiling		
of special sections and themat	c wholes of dissertation, as we	Il as writing individual texts from the thematic		
dissertation tasks set.				
Outcome of the case				
	ure of doctoral dissertation, its	internal organisation in specific research areas and		
thematic tasks				
Subject contents				
Study research work	and the second state of th			
		Parsing the research idea on special research themes.		
Parsing research themes into a	pecific textual wholes.			
Recommended literature	had non-onellist of literations and	a blia baal fan tha such a la af da atamal alla a antatian. Litanatum		
		ablished for the whole of doctoral dissertation, literature		
selection is carried out accordi		Otudu na a anah wantu		
Number of active classes	Class:	Study research work:		
		6 x 15 = 90		
Teaching methods	warding any the field of destance	dia a seta dia s		
	pending on the field of doctoral			
	Knowledge score (maximum number of points 100)			

Study program / study programs:		Forestry		
Type and cycle of studies:		Doctoral studies		
Case name:	CHANGE MANAGERS			
Teacher:				
Case status:	0			
ESPB number:	8			
Condition:				
Pre-exam obligations fulfilled.				
Subject objective: And Make students aware of the in II Meet students with as many differ understand their multidimensional c best suits a given situation III Transfer knowledge of the causes can fully understand them when the IV Transfer sufficient practical know students are able to successfully m Outcome of the case: Gaining competences to understand Gaining competences to understand	rent perspectives haracter and be all s, content and cou y meet in practice ledge on how to m hanage this proces the course of org	of organizational changes as possib ble to implement in practice that app rse of the organizational change pro- nanage the process of organizational an practice anisational changes and events the	ble so that they can broach to change that broess so that students I changes so that rein ;	
happening; Gaining competences to lead the organizational change process – taking steps that lead to the successful realisation of the objectives of change			the successful realisation	
Subject contents				
Theoretical teaching:				
1. Processes and phenomena in civil	izational periods			
2. Context of change				
3. Change management				
Resistance to change				
6. Understanding changes				
7. Reshaping the organisation				
8. Knowledge management				
9. Corporate culture				
10. Making changes				
Precision teaching:	all groups			
Practical teaching – students work in sn 1. Work on case studies on themes i	n theoretical teach	ing		
2. Work on changes in organisations		0		
Literature	millione students u			
Syfert Z. and associates: Change Mana Ristic, D. and Associates, (2005) Chang supplementary Draker, P.(1995) Post-capitalist Society.	e Management, (Cekom books,Novi Sad		
Janićijević, N. (1996) Organizational cul			ad	
Number of active classes			~~	
Lectures: 3X15=45 Exercises: 3X15=45	Other forms:	Study research work	Other hours:	
Methods ofteaching:				
Verbal text (conversation, text work)	, illustratively dem	onstrative		
	dge score (maxir	num number of points 100)		
Pre-exam obligations	Points	Final exam	Points	
activity during the lecture	15	written exam		
practical teaching	15	oral ispt	30	
colloquiums	20			
Seminar work	20			

Study program / study programs:		Forestry		
Type and cycle of studies:		Doctoral studies		
Case name:		PHYTOPHARMACY		
Teacher (surname, sr. letter, name):	Teacher (surname, sr. letter, name):			
Case status:				
ESPB number:	SPB number: 8			
Condition:	I			
Fulfilment of pre-exam obligations (30	points).			
Subject objective:	1 /			
Introducing students to the most signifi	icant chemical ag	gents (pesticides) used in plant prote	ction in order to kill	
phytopathogenic organisms, insects, m				
agents.		· · · · •	C C	
Outcome of the case:				
The student will also be trainedto recor	mmend appropria	ate pesticides for plant protection an	d training for the	
use of appropriate pesticide application			c .	
Subject contents:				
Damage from insects, diseases, as we	ell as some other	biotic agents, damage in the form of	f pigeons,	
defoliation, including drying of individua				
agents, chemical and biological measu				
agents attack plants, animals and humans, the use of pesticides in the production of quality and healthy				
planting material, pesticide in the protection of young plantations of soft lilies and cetinar cultures.				
Literature:				
Igrc-Barcic, J., Maceljski, M., (2001): Environmentally friendly protection of plants from pests. Zrinski d.d.				
Chakovec.				
Maceljski, M., (1992): Methods and apparatus for the use of pesticides. University of Zagreb, Faculty of				
Agronomy, Zagreb.				
You're headed. M., (2004): The Plant	Protection Societ	y inForestry. Forest Protection and I	-lunting Institute. It's	
Zagreb.				
Bohmont, B.L., (1981): The New Pest	icide User's Guic	le. B and K Enterprises, Inc., Fort Co	ollins, Colorado.	
The United York Errands.				
Number of active classes	-		Other hours:	
	r forms:	Study research work:		
Methods of teaching:				
Verbal-textual and illustrative-demonst			ndent and group	
work on the study of relevant sources; and presenting seminar exercises.				
Knowledge score (maximum numbe		1 <u></u> .		
Pre-exam obligations	Points	Final exam	Points	
activity during the lecture	15	written exam		
practical teaching	15	oral exam	30	
seminar work	20			
colloquiums	20			

Study program / study programs:		Forestry		
Type and cycle of studies:		Doctoral studies		
Case name:		APPLIED ZOOLOGY		
Teacher (surname, sr. letter, name):				
Case status:	IP			
ESPB number:	8			
Condition:				
Fulfilment of pre-exam obligations (3	0 points).			
Subject objective:				
Meeting students about animals that	reside in the woo	ods.		
Outcome of the case:				
		eir harmful representatives and in pa		
combat them, so that they can in pra	ctice determine a	and use an appropriate way to comba	at or prevent them	
from acting harmfully.				
Subject contents:				
Harmful insects, nematodes, sofas, r	nites, centuries,	rodents, mammals and birds		
Literature:				
Matonic, I., (1981): Invertebrates. It's				
	, (1998): Eckert	animal physiology. Mechanisms and	adaptations; W. H.	
Freeman and Company, NewYork.				
	er Forstoologie	und des Forstchutzes gegeb Tiere.	Verlag Paul Parey.	
Hamburg undBerlin.	rol - o olo mi Cohi	al baals Itla Zaarab		
Matonic, I., Erben, R., (2002): Gene	rai zoology. Scho	JOI DOOK. It's Zagreb.		
Number of active classes		Chudu rooo arab warku	Other hours:	
	er forms:	Study research work:		
Methods of teaching:	atrativa Lastura	a avaraiaan and annoultations inden	and and aroun	
		s, exercises and consultations, indep	endent and group	
work on the study of relevant sources				
Knowledge score (maximum numl			Dointo	
Pre-exam obligations	Points	Final exam written exam	Points	
activity during the lecture	<u>15</u> 15	oral exam	30	
practical teaching	20		30	
seminar work				
colloquiums	20			

Study program / study programs:		Forestry		
Type and cycle of studies:		Doctoral studies		
Case name:	INVES	TMENTS IN INFRASTRUCTURE	N FORESTRY	
Teacher (surname, sr. letter, name):				
Case status:	IP			
ESPB number:	8			
Condition:				
Fulfilment of pre-exam obligations (30	points).			
Subject objective:				
Introducing students to the types and f				
profitability of investments, with an em	phasis on investm	nent investments in forestry, through	n a theoretical and	
practical approach.				
Outcome of the case:				
The student will also be trainedto succ		ks and problems in the field of invest	sting capital in	
forestry and making investment elabor	ates in forestry.			
Subject contents:				
The concept of investments and invest				
investments, investments in forestry, e				
investments in forestry); Financing of i				
own resources of forestry enterprises,				
development of forms of investment in forestry of Serbia, participation of forestry investments in total				
investments in Serbia); Assessment of				
process of investment in forestry, criter				
method, repayment deadline method,				
cost ratio, liquidity analysis, assessme			ement (defining	
investment task, basic stage in investn	nent, feasibility sti	udy, investment lab).		
Literature:				
Ranković, N. (1996): Economics of For				
Vucicević, S. (1999): Forest and enviro				
Stojanović, Lj., Krstić, M. (2000): Fores			, Beigrade.	
Delić, S., (2008): Basics of forestry eco	phomics. Universi	ly of Sarajevo. Sarajevo.		
Number of active classes		Ctuch recearch work	Other hours:	
	r forms:	Study research work:		
Methods of teaching:	wativa Lasturas v		adapt and arrains	
Verbal-textual and illustrative-demonst			ndent and group	
work on the study of relevant sources;		eminar exercises.		
Knowledge score (maximum numbe		Fig. et essent	Deinte	
Pre-exam obligations	Points	Final exam	Points	
activity during the lecture	15	written exam		
practical teaching	15	oral exam	30	
seminar work	20			
colloquiums	20			

Study program / study programs:		Forestry			
Type and cycle of studies:		Doctoral studies			
Case name:	DYNAMICS OF TREE GROWTH AND FOREST CONSISTENCIES				
Teacher (surname, sr. letter, name):					
Case status:	IP				
ESPB number:	8				
Condition:					
Fulfilment of pre-exam obligations (30 pc	oints).				
Subject objective:					
Getting to know students in the field of tr		orest consistencies and producing	biomass from a		
biological, environmental and economic	aspect				
Outcome of the case:					
The student will be trained in research v					
application. Knowledge in this area is ne					
commercial facilities, as facilities for envi	ronmental prote	ection, treatment and recreation or	objects of general		
aesthetic and cultural importance					
Subject contents:	in a struct so of s		a dia a sa tha		
Characteristics of growth of tree species					
consistency and habitat conditions, definition of optimal constituent condition, real and potential production,					
analysis of the functioning of exogenous and endogenous factors on the vitality and growth of forests, analysis of the diversity of structure and elements of the growth of consistencies, organization and systematization of					
knowledge and understanding of individual aspects of the legality of forest growth in order to education a comprehensive idea of the overall ecosystem and the development of sustainable forest development plans as					
	a natural resource of special economic and environmental importance.				
Literature:					
Matic, S., I. Anić, M. Oršanić, (2003): Or	dinarv beech. A	cademy of Forestry Sciences. It's	Zagreb.		
Matic, S., Prpić, B., Anić, I., Oršanić, M.,					
Zagreb.	(,	,			
Lid, D., (1996): Oak alcove. HAZU and C	roatian Forests	p.o. Zagreb.			
Matic, S., (1992): Forest cultures and plantations. Knowledge. Zagreb.					
	antations. Know	ledge. Zagreb.			
	antations. Know	ledge. Zagreb.	Other hours		
Matic, S., (1992): Forest cultures and pl		ledge. Zagreb. Study research work:	Other hours:		
Matic, S., (1992): Forest cultures and playNumber of active classesLectures: 2Exercises: 2Methods of teaching:	orms:	Study research work:			
Matic, S., (1992): Forest cultures and playNumber of active classesLectures: 2Exercises: 2Other forMethods of teaching:Verbal-textual and illustrative-demonstration	orms: tive. Lectures, e	Study research work:			
Matic, S., (1992): Forest cultures and playNumber of active classesLectures: 2Exercises: 2Other forMethods of teaching:Verbal-textual and illustrative-demonstrativework on the study of relevant sources; and	orms: tive. Lectures, e nd presenting se	Study research work:			
Matic, S., (1992): Forest cultures and playNumber of active classesLectures: 2Exercises: 2Other forMethods of teaching:Verbal-textual and illustrative-demonstrativework on the study of relevant sources; andKnowledge score (maximum number of the study of the	orms: tive. Lectures, e nd presenting se of points 100)	Study research work: exercises and consultations, indepe eminar exercises.	endent and group		
Matic, S., (1992): Forest cultures and play Number of active classes Lectures: 2 Exercises: 2 Methods of teaching: Verbal-textual and illustrative-demonstra work on the study of relevant sources; and study of relevant sources; and play Pre-exam obligations	orms: tive. Lectures, e nd presenting se of points 100) Points	Study research work: exercises and consultations, indepe eminar exercises. Final exam			
Matic, S., (1992): Forest cultures and play Number of active classes Lectures: 2 Exercises: 2 Methods of teaching: Verbal-textual and illustrative-demonstra work on the study of relevant sources; ar Knowledge score (maximum number of pre-exam obligations) activity during the lecture	orms: tive. Lectures, e nd presenting se of points 100) Points 15	Study research work: exercises and consultations, indepe eminar exercises.	Points		
Matic, S., (1992): Forest cultures and play Number of active classes Lectures: 2 Exercises: 2 Other for Methods of teaching: Verbal-textual and illustrative-demonstra work on the study of relevant sources; and Knowledge score (maximum number of pre-exam obligations) activity during the lecture practical teaching	orms: tive. Lectures, e nd presenting se of points 100) Points 15 15	Study research work: exercises and consultations, indepe eminar exercises. Final exam	endent and group		
Matic, S., (1992): Forest cultures and play Number of active classes Lectures: 2 Exercises: 2 Methods of teaching: Verbal-textual and illustrative-demonstra work on the study of relevant sources; ar Knowledge score (maximum number of pre-exam obligations) activity during the lecture	orms: tive. Lectures, e nd presenting se of points 100) Points 15	Study research work: exercises and consultations, indeperent eminar exercises. Final exam written exam	Points		

ype and cycle of studies:	ns:	Forestry	
ype and cycle of studies.		Doctoral studies	
Case name:		AND THEME 2	
eacher:			
Case status:	0		
SPB number:	9		
Condition:			
f special sections and themat nematic tasks of dissertation. Dutcome of the case	ic wholes of dissertation	of the structure of doctoral dissertation, on profiling h, as well as writing individual texts from the set of its internal organisation in specific research areas	
nemes. Parsing research ther Recommended literature In accordance with the establis	nes into specific textual shed general list of litera	ture established for the whole of doctoral	
dissertation, literature selection is carried out according to concrete research tasks Number of active classes Class: Study research work: 6 x 15 = 90			
eaching methods			
Scientific research methods de	pending on the field of	doctoral dissertation.	
Kno	wledge score (maximu	m number of points 100)	

Study program / study programs:		Forestry		
Type and cycle of studies:		Doctoral studies		
Case name:	мо	MODERN TECHNOLOGIES IN INVENTORY SHuMA		
Teacher (surname, sr. letter, name):				
Case status:	IP			
ESPB number:	8			
Condition:				
Fulfilment of pre-exam obligations (3	30 points).			
Subject objective:				
		nologies (remote detection), processin		
		ems, and forming GIS databases as th	e basis for better	
planning, management and control in	n forestry.			
Outcome of the case:		and a set of the set of		
	n practice and in s	scientific institutions (institutes and fac	culty).	
Subject contents:				
		potentials in the space they occupy re		
		mages; Designing a network of suitab prms (applications) designed to collect		
		lications for constituent forest inventor		
			y, Flocessing,	
analysis avaluation presenting and	lagaring of data(d	latabases)		
	lagering of data(d	latabases).		
Literature:			lt's Zagreb	
Literature: Pranjić, A., Lukić, N., (1995): Measu	rement of forests.	Forestry college. University of Zagreb		
Literature: Pranjić, A., Lukić, N., (1995): Measu Mirković, D., Banković, S., (1993): D	rement of forests. endrometry. Forest	Forestry college. University of Zagreb stry college. University of Belgrade. B	elgrade.	
Literature: Pranjić, A., Lukić, N., (1995): Measu Mirković, D., Banković, S., (1993): D Matć, V., (1965): Method of forest in	rement of forests. endrometry. Forest	Forestry college. University of Zagreb	elgrade.	
Literature: Pranjić, A., Lukić, N., (1995): Measu Mirković, D., Banković, S., (1993): D Matć, V., (1965): Method of forest in Forestry in Sarajevo. Sarajevo.	rement of forests. endrometry. Fores ventory for large s	Forestry college. University of Zagreb stry college. University of Belgrade. B surfaces. And Part II. Forestry Institute	elgrade. of the Faculty of	
Literature: Pranjić, A., Lukić, N., (1995): Measu Mirković, D., Banković, S., (1993): D Matć, V., (1965): Method of forest in Forestry in Sarajevo. Sarajevo. Kangas, A., Maltamo, M., (2006): Fo	rement of forests. endrometry. Fore ventory for large s prest Inventory. Me	Forestry college. University of Zagret stry college. University of Belgrade. B surfaces. And Part II. Forestry Institute ethodology and Applications. Springer	elgrade. of the Faculty of . The Netherlands.	
Literature: Pranjić, A., Lukić, N., (1995): Measu Mirković, D., Banković, S., (1993): D Matć, V., (1965): Method of forest in Forestry in Sarajevo. Sarajevo. Kangas, A., Maltamo, M., (2006): Fo Shiver, B.D., Borders, B.E., (1996): S	rement of forests. endrometry. Fore ventory for large s prest Inventory. Me Sampling techniqu	Forestry college. University of Zagreb stry college. University of Belgrade. B surfaces. And Part II. Forestry Institute	elgrade. of the Faculty of . The Netherlands.	
Literature: Pranjić, A., Lukić, N., (1995): Measu Mirković, D., Banković, S., (1993): D Matć, V., (1965): Method of forest in Forestry in Sarajevo. Sarajevo. Kangas, A., Maltamo, M., (2006): Fo Shiver, B.D., Borders, B.E., (1996): S New York, Chichester, Brisbane, Tor	rement of forests. endrometry. Fore ventory for large s prest Inventory. Me Sampling techniqu	Forestry college. University of Zagret stry college. University of Belgrade. B surfaces. And Part II. Forestry Institute ethodology and Applications. Springer	elgrade. e of the Faculty of . The Netherlands. n Wiley & Sons.	
Literature: Pranjić, A., Lukić, N., (1995): Measu Mirković, D., Banković, S., (1993): D Matć, V., (1965): Method of forest in Forestry in Sarajevo. Sarajevo. Kangas, A., Maltamo, M., (2006): Fo Shiver, B.D., Borders, B.E., (1996): S New York, Chichester, Brisbane, Top Number of active classes	rement of forests. endrometry. Fore ventory for large s prest Inventory. Me Sampling techniqu	Forestry college. University of Zagret stry college. University of Belgrade. B surfaces. And Part II. Forestry Institute ethodology and Applications. Springer	elgrade. of the Faculty of . The Netherlands.	
Literature: Pranjić, A., Lukić, N., (1995): Measu Mirković, D., Banković, S., (1993): D Matć, V., (1965): Method of forest in Forestry in Sarajevo. Sarajevo. Kangas, A., Maltamo, M., (2006): Fo Shiver, B.D., Borders, B.E., (1996): S New York, Chichester, Brisbane, Tor Number of active classes Lectures: 2 Exercises: 2 Oth	rement of forests. lendrometry. Fores ventory for large s prest Inventory. Me Sampling techniqu ronto, Singapore.	Forestry college. University of Zagrek stry college. University of Belgrade. B surfaces. And Part II. Forestry Institute ethodology and Applications. Springer ues for forest resource inventory. Johr	elgrade. e of the Faculty of . The Netherlands. n Wiley & Sons.	
Literature: Pranjić, A., Lukić, N., (1995): Measu Mirković, D., Banković, S., (1993): D Matć, V., (1965): Method of forest in Forestry in Sarajevo. Sarajevo. Kangas, A., Maltamo, M., (2006): Fo Shiver, B.D., Borders, B.E., (1996): \$ New York, Chichester, Brisbane, Tor Number of active classes Lectures: 2 Exercises: 2 Oth Methods of teaching:	rement of forests. lendrometry. Forest ventory for large s prest Inventory. Me Sampling techniqu ronto, Singapore. her forms:	Forestry college. University of Zagrek stry college. University of Belgrade. B surfaces. And Part II. Forestry Institute ethodology and Applications. Springer ues for forest resource inventory. Johr	elgrade. e of the Faculty of The Netherlands. Wiley & Sons. Other hours:	
Literature: Pranjić, A., Lukić, N., (1995): Measu Mirković, D., Banković, S., (1993): D Matć, V., (1965): Method of forest in Forestry in Sarajevo. Sarajevo. Kangas, A., Maltamo, M., (2006): Fo Shiver, B.D., Borders, B.E., (1996): S New York, Chichester, Brisbane, Tor Number of active classes Lectures: 2 Exercises: 2 Oth Methods of teaching: Verbal-textual and illustrative-demor work on the study of relevant source	rement of forests. eendrometry. Fore- ventory for large s prest Inventory. Me Sampling techniqu ronto, Singapore. her forms: hstrative. Lectures	Forestry college. University of Zagret stry college. University of Belgrade. B surfaces. And Part II. Forestry Institute ethodology and Applications. Springer ues for forest resource inventory. John Study research work: , exercises and consultations, indepen- seminar exercises.	elgrade. e of the Faculty of The Netherlands. Wiley & Sons. Other hours:	
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Literature: Pranjić, A., Lukić, N., (1995): Measu Mirković, D., Banković, S., (1993): D Matć, V., (1965): Method of forest in Forestry in Sarajevo. Sarajevo. Kangas, A., Maltamo, M., (2006): Fo Shiver, B.D., Borders, B.E., (1996): S New York, Chichester, Brisbane, Tor Number of active classes Lectures: 2 Exercises: 2 Ott Methods of teaching: Verbal-textual and illustrative-demor work on the study of relevant source Knowledge score (maximum numl Pre-exam obligations activity during the lecture	rement of forests. endrometry. Forest ventory for large s prest Inventory. Me Sampling techniqu ronto, Singapore. her forms: her forms: her forms: her forms: her forms 100	Forestry college. University of Zagrets stry college. University of Belgrade. B surfaces. And Part II. Forestry Institute ethodology and Applications. Springer ues for forest resource inventory. John Study research work: , exercises and consultations, indepen- seminar exercises.	elgrade. e of the Faculty of : The Netherlands. Wiley & Sons. Other hours: ndent and group	
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Study program / study programs:	Forestry	
Type and cycle of studies:	Doctoral studies	
Case name:	USE OF FOREST UNDER SPECIAL PROT	ECTION REGIME
Teacher (surname, sr. letter, name):		
Case status:	IP	
ESPB number:	8	
Condition:	·	
Fulfilment of pre-exam obligations (30 point	nts).	
special forest protection regimes and appr Outcome of the case:	eate as well as transport of wood varieties under to opriate measures in the field of use of these fores solving problems related to the selection of optime	st complexes
The student will also be trained to dealwithsolving problems related to the selection of optimal technologies in areas that want certain treatment from their protection.		
work in forest use jobs. Constructive and e for the emission of harmful gases as well a harmful gaoves. Biodegradable propulsion soil with different machines. Compression work and cargo when towing and driving. indices and contact pressure. Possibilities of measuring soil compression and its ass	Environmental and ergonomatic characteristics of exploitative characteristics of labour resources an as the impact on land. Use of special fuels to reduce in fuels and oils. The load-bearing of the forest soil and erosion of the soil, as a result of the movement lt's a colossus. Transfer of force from wheels to the for reducing the contact pressure of vehicles on the ressment. Damage to deeper trees, rejuvenating a	d their importance uce emissions of I. Trampling forest ent of the means of he base. Wheel forest soil. Methods
characteristics of means of working on ster with rope systems, pourers, animal clamp forest cable car. Planning a corridor of for transporting wood by cable car. Calculatio wood to forest cable cars in areas under s rejuvenation caused by the transport of we special protection regime. Construction of regime. Choice of forest exploitation tech	then attracting wood varieties. Technical and consider terrains and low load-bearing terrains. Transpring. Classification of forest cable cars. Technical dest cable cars in protected areas. Normizing work ons of work on wire transport jobs. The effectivener pecific protection regimes. Damage to the remain bod by cable car. Planning travel infrastructure in travel infrastructure in forests with a special protection logies, given the damage in the land as well as an animal cart with special review of the occurrent.	tructive ort of wood wired characteristics of on the jobs of ess of transporting hing trees, land and forests with a ection the reduction of
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characteristics of means of working on ster with rope systems, pourers, animal clamp forest cable car. Planning a corridor of fore transporting wood by cable car. Calculatio wood to forest cable cars in areas under so rejuvenation caused by the transport of we special protection regime. Construction of regime. Choice of forest exploitation tech CO2 emissions. Transport of the tree with Torture capabilities of the animal cartridge Literature: Vajda, Z., (1973) Forest protection science Martinić, I., (2009): Management of protect University of Zagreb. Forestry college. It's Altenkirsh, W., Mayunke, C., Ohnesorge, Verlag. It's Stuttgart. Pullin, A.S., (2002): Conservation biology. Number of active classes Lectures: 2 Exercises: 2 Other for Methods of teaching: Verbal-textual and illustrative-demonstrative work on the study of relevant sources; and	 eep terrains and low load-bearing terrains. Transping. Classification of forest cable cars. Technical dest cable cars in protected areas. Normizing work on wire transport jobs. The effectivener specific protection regimes. Damage to the remain bod by cable car. Planning travel infrastructure in travel infrastructure in forests with a special protenologies, given the damage in the land as well as an animal cart with special review of the occurrent. e, school book. It's Zagreb. e, school book. It's Zagreb. e, school book. It's Zagreb. B., (2002) Waldschutz auf ökologischer Grundlag <u>Cambridge University Press. Cambridge.</u> <u>Study research work:</u> we. Lectures, exercises and consultations, indeped presenting seminar exercises. 	tructive ort of wood wired characteristics of on the jobs of ess of transporting hing trees, land and forests with a ection the reduction of face of damage. sustainability. e. Eugen Ulmer
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characteristics of means of working on ster with rope systems, pourers, animal clamp forest cable car. Planning a corridor of fore transporting wood by cable car. Calculatio wood to forest cable cars in areas under so rejuvenation caused by the transport of we special protection regime. Construction of regime. Choice of forest exploitation tech CO2 emissions. Transport of the tree with Torture capabilities of the animal cartridge Literature: Vajda, Z., (1973) Forest protection science Martinić, I., (2009): Management of protect University of Zagreb. Forestry college. It's Altenkirsh, W., Mayunke, C., Ohnesorge, Verlag. It's Stuttgart. Pullin, A.S., (2002): Conservation biology. Number of active classes Lectures: 2 Exercises: 2 Other for Methods of teaching: Verbal-textual and illustrative-demonstratii work on the study of relevant sources; and Knowledge score (maximum number of Pre-exam obligations activity during the lecture practical teaching	eep terrains and low load-bearing terrains. Transp ing. Classification of forest cable cars. Technical of est cable cars in protected areas. Normizing work on sof work on wire transport jobs. The effectivener especific protection regimes. Damage to the remain bod by cable car. Planning travel infrastructure in travel infrastructure in forests with a special protection of the damage in the land as well as an animal cart with special review of the occurrent. e, school book. It's Zagreb. e, school book. It's Zagreb. e, school book. It's Zagreb. B., (2002) Waldschutz auf ökologischer Grundlag Cambridge University Press. Cambridge. rms: Study research work: ve. Lectures, exercises and consultations, indepeed presenting seminar exercises. f points 100 Points Final exam 15 oral exam	tructive ort of wood wired characteristics of on the jobs of ess of transporting ning trees, land and forests with a ection the reduction of nce of damage. sustainability. e. Eugen Ulmer Other hours:
characteristics of means of working on ster with rope systems, pourers, animal clamp forest cable car. Planning a corridor of fore transporting wood by cable car. Calculatio wood to forest cable cars in areas under s rejuvenation caused by the transport of wo special protection regime. Construction of regime. Choice of forest exploitation tech CO2 emissions. Transport of the tree with Torture capabilities of the animal cartridge Literature: Vajda, Z., (1973) Forest protection science Martinić, I., (2009): Management of protect University of Zagreb. Forestry college. It's Altenkirsh, W., Mayunke, C., Ohnesorge, Verlag. It's Stuttgart. Pullin, A.S., (2002): Conservation biology. Number of active classes Lectures: 2 Exercises: 2 Other for Methods of teaching: Verbal-textual and illustrative-demonstrati work on the study of relevant sources; and Knowledge score (maximum number of Pre-exam obligations activity during the lecture	eep terrains and low load-bearing terrains. Transp ing. Classification of forest cable cars. Technical of est cable cars in protected areas. Normizing work ins of work on wire transport jobs. The effectivener ipecific protection regimes. Damage to the remain bod by cable car. Planning travel infrastructure in travel infrastructure in forests with a special protection nologies, given the damage in the land as well as an animal cart with special review of the occurrence. e, school book. It's Zagreb. et areas of nature: Planning, development and s Zagreb. B., (2002) Waldschutz auf ökologischer Grundlag Cambridge University Press. Cambridge. rms: Study research work: ve. Lectures, exercises and consultations, indeped a presenting seminar exercises. f points 100 Points Final exam 15 written exam	tructive ort of wood wired characteristics of on the jobs of ess of transporting hing trees, land and forests with a ection the reduction of nee of damage. sustainability. e. Eugen Ulmer Other hours: andent and group

Study program / study program	าร:	Forestry		
Type and cycle of studies:		Doctoral studies		
Case name:		PRODUCTION AN	D PUBLICATION OF OTHER SCIENTIFIC WORK	
Teacher:				
Case status:		0		
ESPB number:		8		
Condition: no				
Object Target				
Training for independent scientific and research and authorwork.				
Outcome of the case				
Publishing crafted scientific work in publications or magazines of the appropriate scientific rank.				
Subject contents				
Study research work. Selection of the appropriate research topic, studying relevant literature and creating				
scientific work itself.				
Recommended literature				
		e research task on wh	nich scientific work is constructed.	
Number of active classes	Class:		Study research work:	
			6 x 15 = 90	
Teaching methods				
Scientific and research methods depending on the field of scientific work.				
Knowledge score (maximum number of points 100)				

Study program / study program	ns:		Forestry	
Type and cycle of studies:		Doctoral studies		
Subject				
		DOCTORAL DISSE	RTATION – RESEARCH ON TOPIC 3	
Teacher or teachers (surnam	e,			
middle letter name):				
Case status:		0		
ESPB number:		14		
Condition:				
Object Target				
The basic research work of the PhD in the conception of the structure of doctoral dissertation, on				
profiling of special sections and thematic wholes of dissertation, as well as writing individual texts			on, as well as writing individual texts	
from the set of thematic tasks of dissertation.				
Outcome of the case				
Determination of the structure of doctoral dissertation, its internal organisation in specific research				
areas and thematic tasks.				
Subject contents				
Study research work				
			ing the research idea on special	
research themes. Parsing rese	earch them	nes into specific textu	al wholes.	
Recommended literature				
			tablished for the whole of doctoral	
dissertation, literature selection		d out according to col		
Number of active classes	Class:		Study research work:	
			10 x 15 = 150	
Teaching methods				
Scientific research methods depending on the field of doctoral dissertation.				
Knowle	edge scol	re (maximum numb	er of points 100)	

Study program / study program	s:	Forestry
Type and cycle of studies:		Doctoral studies
Case name:		
	DOC	TORAL DISSERTATION – RESEARCH ON TOPIC 4
Teacher or teachers (surname) ,	
middle letter name):		
Case status:	0	
ESPB number:	14	
Condition:		
Object Target		
		ception of the structure of doctoral dissertation, on
		es of dissertation, as well as writing individual texts
from the set of thematic tasks of	f dissertation.	
Outcome of the case		
Determination of the structure of doctoral dissertation, its internal organisation in specific research		
areas and thematic tasks.		
Subject contents		
Study research work		
Elaboration of the research idea of doctoral dissertation. Parsing the research idea on special		
research themes. Parsing research themes into specific textual wholes.		
Recommended literature		
In accordance with the established general list of literature established for the whole of doctoral		
dissertation, literature selection	is carried out a	ccording to concrete research tasks
Number of active classes	Class:	Study research work:
		10 x 15 = 150
Teaching methods		
Scientific research methods depending on the field of doctoral dissertation.		
Knowledge score (maximum number of points 100)		

Study program / study programs:	Forestry		
Type and cycle of studies:	Doctoral studies		
Case name:	WRITING DOCTORAL DISSERTATION (PROCESSING OF DOCTORAL DISSERTATION DATA)		
Teacher or teachers (surname, middle			
letter name):			
Case status:	0		
ESPB number:	14		
Condition:			
Object Target By applying basic, theoretically methodological, scientific and professional-applied knowledge, methods and latest knowledge from recent relevant scientific and professional literature (monographs and periodics) a PhD student approaches to solving concrete problems within the topic of doctoral dissertation aimed at writing and defending final work. Outcome of the case			
Confirmed ability of phD students to, by applying the appropriate methodology, independent ly linking and applying acquired knowledge from doctoral studies and adopting new ones from the field from which the candidata reported doctoral dissertation, as well as the ability to use relevant literature independently, in particular recent, application of scientific methodology, systematic analysis and implementation of relevant conclusions, announce the results of its research in the framework of the topic of doctoral dissertation, explain their importance for further scientific research in a particular area and contribution to science.			
area and contribution to science. Subject contents The content or structure of doctoral dissertation was formed individually in accordance with the topic and needs of the work. The PhD studied professional and theoretical literature, analyzed the subject of his doctoral dissertation in order to find a solution to a specific task set by his mentor and approached the writing of the final work. Theoretical basics are a condition for successful work on writing doctoral dissertation. Writing dissertation: Mentor, along with his PhD, ceded the silabus of the work of doctoral dissertation, which the PhD accepted and applied in his work to write dissertation. Doctoral dissertation is required to be written in the framework of a set and approved topic that has previously defined objectives and objectives, and reasoned, and reasoned, by the Commission for the assessment of the eligibility of the topic, candidates and mentors assessed by the proposal for the topic of doctoral dissertation certified by the University Senate. A positively evaluated proposal of the topic of doctoral dissertation, the PhD student is entitled to approach the writing doctoral dissertation. In writing doctoral dissertation. In writing doctoral dissertation, the PhD is used by the relevant literature proposed by the mentor or literature he himself proposed and analyzed together with the mentor. During the development of doctoral dissertation, the PhD is consulted with a mentor who can also give additional instructions to the PhD, refer to additional and new literature and direct him in a direction that will lead to the development of quality doctoral dissertation. Depending on the topic and requirements resulting from the task of writing doctoral thesis, the PhD, before accessing the writing of the text of doctoral dissertation, performs certain (field, archival, etc.) research, surveys, tests, statistical data processing and other research whose results are incorporated into the text part of the thesis. The PhD student con			
literature selection is carried out according to con-			
Number of active classes Class:	Study research work:		
Topohing mothodo	10 x 15 = 150		
Teaching methods	a field of destaral dissortation		
Scientific research methods depending on th			
Knowledge score (n	naximum number of points 100)		

Study program / study program	าร:	Forestry	
Type and cycle of studies:		Doctoral studies	
Case name:			
	PRODU	JCTION AND PUBLICATION OF THIRD SCIENTIFIC WORK	
Teacher or teachers (surnam middle letter name):	e,		
Case status:	0		
ESPB number:	12		
Condition:			
Object Target			
Training for independent scientific and research and authorwork.			
Outcome of the case			
Publishing crafted scientific work in publications or magazines of the appropriate scientific rank that			
require reviewed work.			
Subject contents			
Study research work Selection of the appropriate research topic, studying relevant literature and creating scientific work itself.			
Recommended literature			
Selected relevant literature that	t absorbs the re	esearch task on which scientific work is constructed.	
Number of active classes	Class:	Study research work:	
		6 x 15 = 90	
Teaching methods			
Scientific and research methods depending on the field of scientific work.			
Knowledge score (maximum number of points 100)			

Study program / study programs:		Forestry	
Type and cycle of studies:	[Doctoral studies	
Case name:			
	DOCTORAL DISSER	TATION – RESEARCH ON TOPIC 5	
Teacher or teachers (surname,			
middle letter name):			
Case status:	0		
ESPB number:	12		
Condition:			
Object Target			
		tion of the written structure of doctoral	
		es of dissertation, as well as writing	
individual texts from the set of thematic tasks of dissertation.			
Outcome of the case			
Auditing the structure of the doctoral dissertation, its internal organisation to specific research areas			
and thematic tasks.			
Subject contents			
Study research work			
Elaboration of the research idea of doctoral dissertation. Parsing the research idea on special			
		I wholes. The latest revision of the	
written doctoral thesis proposal b	efore the final form.		
Recommended literature			
		ablished for the whole of doctoral	
dissertation, literature selection is			
Number of active classes C	lass:	Study research work:	
		6 x 15 = 90	
Teaching methods			
Scientific research methods depending on the field of doctoral dissertation.			
Knowled	ge score (maximum numbe	r of points 100)	

Study program / study programs:	Forestry	
Type and cycle of studies:	Doctoral studies	
Case name:		
	DEFENSE OF DOCTORAL DISSERTATION	
Teacher or teachers (surname,		
middle letter name):		
Case status	0	
ESPB number:	11	
Condition:		
Object Target		
Public oral or multimedia presentation	on of the PhD and systematic understanding of the selected and	
written theme of doctoral dissertatio	n; the ability to explain the applied methodology and results of original	
scientific research in the field of scie	ence by applying literary language with the necessary degree of	
academic integrity; giving concise, o	clear and argumentative answers to all questions asked by members of	
the Commission for the Defence of	Doctoral Dissertation.	
Outcome of the case		
	arch results by original research extending the boundaries of	
	rance. Public confirmation of doctoral knowledge and systematic	
	of doctoral dissertation; the ability to explain independently and	
	ology and results of original scientific research in the field of science	
	mic integrity; giving concise, clear and argumentative answers to all	
· · · · ·	Commission for the Defence of Doctoral Dissertation.	
Subject contents		
	on in accordance with the Doctoral Studies Regulations.	
After completing the writing of the doctoral thesis, and in agreement with the mentor, The PhDt t hands		
over at least 8 copies of the thesis to the Teaching and Scientific Council of the Department, which		
proposes to the Senate of the University the Commission for the Assessment and Defence of doctoral		
dispersal of at least 3 members.		
	sitive) assessment report to the Teaching and Scientific Council	
considered and forwarded to the University Senate for adoption. Positive, and adopted by the University		
Senate, a report on the assessment of doctoral dissertation is submitted to the Commission, which,		
together with the mentor and candidate, schedules an oral defence of doctoral dissertation. On the oral		
defence of doctoral dissertation, doctoralt first exhibits a short exposé about its thesis, the results of its		
research and the contribution of its dissertation of the area from which the thesis is written, and then		
answers the questions asked to it by the members of the Commission. Defence shall be considered		
complete when all Members of the Commission exhaust the envisaged questions and doctoralt on them to		
answer the satispensing answers. Following the Commission's withdrawal and the drawing up of defence		
minutes, the Commissionshall announce the result of the defence. The defense record is forwarded to the		
University administration.		
Recommended literature		
In line with the problem and chronological framework of the topic of doctoral dissertation and the		
established research methodology		
Number of active classes Clas		
Teaching mathed	8 x 15 = 120	
Teaching methods	modia mathada in procenting independent original results of estimatific	
Public oral defence, the use of multimedia methods in presenting independent original results of scientific		
research on the topic of doctoral dis		
Knowledge score (maximum number of points 100) Defence of doctoral dissertation: 100 points		