

POLYTECHNIC OF MEÐIMURJE IN ČAKOVEC

COURSE SYLLABUS						
ACADEMIC YEAR: 2020/2021						
1. GENERAL COURSE INFO	RMATION					
1.1 Course name Natural Resourse Management						
1.2 Study program/s						
1.3 Course status (O,E)	0	1.6 Mode of	Lectures	15		
1.4 Course code	4061	instruction	Exercises	30		
1.5 Course abbreviation	GPR	(number of	Seminars			
1.6 Semester		hours)	E-learning	Merlin		
1.7 ECTS	4	1.7 Place and	Classrooms F	olytechnic of		
		time of	Međimurje i	n Cakovec		
		instruction				
2. TEACHING STAFF		· ·				
2.1 Course leader/s-title	Ivančica Somodi, mag.	contact	isomodji@m	ev.hr		
	bioi. moi.					
2 2 Assistant/s titls		contact				
2.2 Assistant/s- title		contact				
2.2 Instruction hold by		contact				
title		contact				
3. COURSE DESCRIPTION			I			
3.1 Course goals						
	Apply knowledge of hatur activities, but also in othe their use. It apply a new a make sense from financia cultural perspective. Knowledge is acquired fro exploitation of natural re recognize an interdiscip knowledge, be able to ap restore and manage biodive placed on developing the a and the human dimension recognize the integration dimensions of managemen Students acquire basic kn basics of exploitation and trained as a team solving e implementation and take re	an resources manager er economic branc and emerging econ and emerging econ analytical analy	agement in pro- hes when material as from en- obal environment obal environment focused on approach need a sustainable v comprehensive ce management , sociological, sis of study can strial and aquit atural resource lems, apply leg stainable com	king decisions on eks solutions that nvironmental and ental problems of he student must basic biological eded to conserve, vay. Emphasis was e process planning nt. Students must and institutional ses. atic habitats, the es. The student is gislation in project munity.		
3.2 Prerequisites	/					
3.3 Course outcomes	After successfully completin I1 - Indicate the composition water, forests, the basis protected natural reso I2 - Identify, describe and e nature of natural resources	ng the course, stude n, structure, abiotic c document require urses. xplain the impacts urce management:	ents will be ab c and biotic fac ed for the mar on the environ predict the imp	le to: ctors of soil, nagement of iment and the pacts, compare		

		the impac	ts of	f the pro	oject v	vith	the financia	l sta	indpoin	it.		
	13 -	Interpret a	nd a	apply th	e basi	cs o	f forest, wat	er, s	oil and	air pr	ote	ction
	14 -	Assess, rev	iew	the pos	sible i	mpa	acts of envir	onm	iental II	nterve	nti	ons in the
		Plans of e	ent	of natu	rai res al and	our(nat	ces; apply da	ata t ente	rom the	e Man	age	ement
	15 -	5 - Anticipate possible consequences of intervention / management of										
		natural resources: independently apply legislation in the use of natural										
		resources.										
	16 -	Connect ar	nd pi	resent t	he aco	quir	ed knowledg	ge in	the ec	onomi	ic u	se of
		natural re	sour	ces.								
3.4 Course content	The	e course d	eals	with t	he ba	sic	managemer	nt o	f the o	compo	one	nts of the
	en	/ironment	and	nature	in a	sus	tainable wa	iy, c	lirected	l at tl	hin	king about
	sus	tainability i	n th	eir eco	nomic	use	. The conter	nts a	are pro	cessed	d de	escriptively
	and	from the	aspe	ect of s	tudy c	ase	s, focusing (on s	ustaina	ble p	rod	uction and
	cor	sumption.	The	tollow	ing co	onte	ents are pre	sen	ted in	the te	eac	hing units:
	eth	ICS, SUSTA	inab	ility ir	1 TOO	a	production,	ec	conomy	, pro	ote	ction and
	hio	diversity (r	01 50		ipositi t of r	un,	ected natur	es, al ra		ieis), v	wai	ulture and
	hu	nting) thei	r th	ne mos	t sign	ifica	ant ways of	a no	ollution	is, ayı (nest	uac tici	des heavy
	me	tals), the ir	npad	ct of th	e use	of n	ion-renewab	le e	energy s	source	es (energetics)
	ma	nagement	of	protect	ed na	atur	al values (cate	gorizat	ion, i	nfr	astructure,
	ecc	ology, educ	atio	n, tour	rism, l	histo	orical and o	cultu	ural he	ritage), :	sustainable
	dev	elopment s	strat	egy.								
3.5 Types of coursework	x	Lectures	x	Exercise	es		Blended e-		Individu	lal		Laboratory
	\vdash	Seminars					learning		Multim	edia		-
	x	and		Distant	a		Field		and	cara		Mentorship
	\square	workshops		learning	5		0103303		networ	k		
2 Chamman of	\square	Other										
3.6 Language of												
3 7 Monitoring students'	0.5	Classette			0.25	6				_		
work (enter the	0,5	Class atte	ndan	ce	0,25	Sei	minars			Essay	/	
	0,25	0.25 Class activity P				Pro	Project Repo		ort/paper			
number of ECTS					-					tinuous		
number of ECTS credits for each	1,0	Midterm	, exam	IS		Pra	actical task			Conti	inuc	ous
number of ECTS credits for each activity so that the	1,0	Midterm	, exam	IS		Pra	actical task			Conti know	inuc /led	ous ge check
number of ECTS credits for each activity so that the total number of ECTS	1,0	Midterm Written e	exam xam	IS		Pra Exj	actical task perimental wor	·k		Conti know	inuc /led	ge check
number of ECTS credits for each activity so that the total number of ECTS credits is equal to	1,0 1,0	Midterm Written e Oral exam	exam xam	IS		Pra Exj Re	actical task perimental wor search	'k		Conti know	inuc	uus ge check
number of ECTS credits for each activity so that the total number of ECTS credits is equal to the total ECTS value	1,0	Midterm Written e Oral exam	exam xam 1	IS		Pra Exj Re	actical task perimental wor search	·k		Conti know	inuc (led)	ge check
number of ECTS credits for each activity so that the total number of ECTS credits is equal to the total ECTS value of the course, 1 ECTS = 30 bours)	1,0	Midterm Written e Oral exam	exam xam	15		Pra Exj Re	actical task perimental wor search	'k		Conti know	inuc	uus ge check
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number of ECTS credits for each activity so that the total number of ECTS credits is equal to the total ECTS value of the course, 1 ECTS = 30 hours) 3.8 Assessment and evaluation of	1,0	Midterm of Written e	exam xam n	is / specifica	ation	Pra Ex Re	actical task perimental wor search Percent %	⁻ k	Po	Conti know	inuc	ge check
number of ECTS credits for each activity so that the total number of ECTS credits is equal to the total ECTS value of the course, 1 ECTS = 30 hours) 3.8 Assessment and evaluation of students' work	1,0	Class active Midterm (Written e Oral exam	exam xam	is y specifica A	ation	Pra Ex Re	ectical task perimental wor search Percent % luring instruction	rk		ints	inuc /led	ge check
number of ECTS credits for each activity so that the total number of ECTS credits is equal to the total ECTS value of the course, 1 ECTS = 30 hours) 3.8 Assessment and evaluation of students' work during classes and at	1,0	Class active Midterm (Written e: Oral exam Oral exam Attenda Class active	exam xam n tivity	s specifica A	ation	Pra Exp Re ent d	ectical task perimental wor search Percent % luring instruction 10% 10%	rk on	Po	ints	inuc iled	ge check
number of ECTS credits for each activity so that the total number of ECTS credits is equal to the total ECTS value of the course, 1 ECTS = 30 hours) 3.8 Assessment and evaluation of students' work during classes and at the final exam	1,0	Class active Midterm (Written e Oral exam Oral exam Attenda Class ac Seminal	exam xam n tivity nnce_ tivity	y specific A Dject/ ess	ation ssessmo	Pra Exp Re	Percent % luring instruction 10% 20%	rk Dn	Po	ints	inuc /led	ge check
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number of ECTS credits for each activity so that the total number of ECTS credits is equal to the total ECTS value of the course, 1 ECTS = 30 hours) 3.8 Assessment and evaluation of students' work during classes and at the final exam	1,0	Midterm of Written e Oral exam	exam xam n tivity tivity r/ prc n exa n exa sssessi exan	y specifica A Dject/ ess im 1 im 2 ment for req n	ation ssessme ay the stuc uiremen	Pra Exp Re ent d dents dents	Percent % search Percent % luring instruction 10% 20% 12,5% 12,5% 5 who failed to p uring the seme 25% 35% 100%	bn fullfil ster	Po 1 1 1 2 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 3 1 1 3 1 3 1 1 3 1	ints 10 10 20 2,5 2,5 bligator 25 35 00	inuc rled	ge check
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3.9 Assessment criteria –							
analysis per learning		Ways o	f evaluating l	earning outco	omes	_	
outcomes		Attendance	Activity	Mid-term	Mid-term	Practical	Total
				exam 1	exam 2	work	10
	Outcome 1			5	5		10
	Outcome 2			5	5		10
	Outcome 3			5	5	10	20
	Outcome 5		5	5	5	5	20
	Outcome 6		5	5	5	5	20
	Outcome		-	-	-	-	
	not-related	5	5				10
	Total	5	5	30	30	30	100
	Grading of o	outcomes (in	order to pa	ass the mid	-term exam	/exam the	student
	must achiev	e at least 509	% points fo	r each leari	ning outcon	ne)	
	Points G	Grade					
	89–100 e	xcellent (5)					
	76 – 88 v	erv good (4)					
	63 – 75 g	ood(3)					
	50 - 62 n	ass (2)					
	0_10_f	$d_{23}(2)$					
2 10 Specific features	0-49 lo		of the main	to of oo ob		o / cho din	
3.10 Specific features	n a student	conects 50%	of the poir		outcome, n	ie / sne ure	
related with taking	the exam, p	provided that	t ne / sne	nas submit	ted a semi	nar paper.	A student
the course	cannot acce	ss the exam	period if h	e / she has	not submi	tted and pr	esented a
	seminar pa	per. The sem	ninar paper	is taught	and presen	ted accord	ng to the
	schedule of	the lecture,	and at the	latest at th	ne final lect	ture when i	t must be
	presented.	During the	exam, it is	possible	to orally c	heck the k	nowledge
	during the p	reparation o	of the semir	nar paper.			
	If a student	does not ad	chieve a su	fficient nu	mber of po	ints on the	midterm
	exam, he / s	he cannot ta	ke the next	t midterm e	exam.		
	Once achiev	ed points in	intermedia	te exams fo	or each lear	ning outco	me are no
	longer delet	ed unless th	e student o	lecides to c	orrect the	result for a	particular
	learning out	tcome when	eby the no	ints won u	ntil then ar	e deleted :	and newly
	achieved no	ints for that	learning ou	itcome are	ontorod		
	The final of	ada is abtai	icaring ou		entereu.	a tha aum	of nainta
			med on th	e exam pe		s the sum	or points
	earned duri	ng classes.					1
	Students wi	no did not tal	ke the collo	oquium acc	ess the writ	tten part of	the exam
	where all le	arning outco	mes are ch	ecked.			
3.11 Students obligations	Full-time stu	udents are re	quired to a	ttend at lea	ast 70% of t	he total nu	mber of
	hours of lec	tures and exe	ercises in o	rder to exe	rcise the rig	ght to take t	he exam.
	Part-time st	udents are re	equired to a	attend at le	ast 30% of	the total nu	imber of
	hours of lec	tures and exe	ercises in o	rder to exe	rcise the rig	ght to take t	he exam.
	If the stude	nt has not ful	filled all th	e obligatior	ns set by the	e course, he	e is
	obliged to a	ttend the lec	tures again	and meet	the conditi	ons for taki	ng the
	exam.		-				-
	Attendance	can be offse	t by online	tuition, org	anised web	pinars and a	dded
	assignment	s given by tea	, achers, One	lesson last	ts 45 minut	es, and seve	eral hours
	form a teac	ning unit. Ab	sence from	one teachi	ng unit is c	ounted as o	ne
	absence De	lays and ano	logies are r	ecorded se	narately Ir	that case	if the
	student mis	cod moro the	nogics are i	laccoc and	bac a justif	i chlat case,	
	roacon /ana		unct chould	iasses, dilu	tias a justil	ianic Joportmort	Council
	reason/apo	logy, the requ		i be submit	ieu io ine L	runen	Council,
	which then	ueclaes on th	ie justificat	ion of stud	ent absence	es with the	
	obligatory o	pinion of the	e course lea	der.			
3.12 Written	Seminar pap	pers must be	computer	written and	I may have	a maximun	n of 10 to
assignments	12 text card	s (Times Nev	v Roman, fo	ont 12) from	n introduct	ion to conc	usion,
	together wi	th pictures, a	ppendices	to tables a	ccording to	the "Regula	ations on

		the f	inal work,";	MEV, 2015. Seminar pa	pers must have an adequa	ate title		
		page	, content, ma	irked pages and literatur	re. The seminar paper sho	uld be		
		divid	ed into chapt	ters and contain a list of	references and a list of fig	gures and		
		table	s and graphs	and finally a summary /	conclusion in the size of 2	250 words.		
		The s	tudent guara	antees the authenticity o	of the work with his signat	ure.		
3.13 Req	uired reading							
		1	Manageme	nt of protected areas of	nature - planning, develo	pment,		
		1.	sustainabili	ty, Ivan Martinić, Univer	sity of Zagreb, Faculty of I	orestry,		
			Zagreb, 201	LO.				
		2	Poisoned B	lue-Green Planet, O. P. S	Springer, Daniel Springer,	Meridians,		
		Ζ.	2008 - selec	cted Chapters				
		2	Nevenko H	erceg. Environment and	sustainable development	, Zagreb:		
		5.	Synopsis, 2	013, selected chapters				
		4	Remediatio	on of contaminated soil,	I. Kišić, Faculty of Agricult	ure,		
		4.	University of	of Zagreb, Zagreb, 2012.				
3.14 Add	ditional reading	1	Natural Res	oursce Conservation, Ol	iver S. Owen, daniel D. Ch	iras, John		
		1.	P, Reganolo	l, Prentice Hall				
		2.	Biology, Ra	ven Johnson, Losos Singe	er			
4 ADDIT	IONAL COURSE IN	FORM/	ATION					
4.1 Qual	lity control	The o	quality of the	program, teaching proc	ess, teaching skills and lev	el of		
		mast	ery of the ma	aterial will be established	d by conducting a written	evaluation		
		base	d on questior	nnaires, and in other sta	ndardised ways and in acc	ordance		
		with	the by-laws o	of the Polytechnic of Me	đimurje in Čakovec.			
4.2 Cont	act the teacher	Stude	ents can cont	act the teacher during t	he office hours and during	g classes,		
		while	e for short qu	estions and explanation	s they can contact him/he	er any day		
		durir	ig working ho	ours by coming in persor	n or by landline. It is also p	ossible to		
		ask q	uestions by e	e-mail, which will be ans	wered in 48 hours at the l	atest. It is		
		desir	able for stud	ents to come as often as	s possible for any possible	questions		
		durir	ig the teache	r's office hours.				
4.3 Infor	mation about	It is t	he obligation	of each student to be re	egularly informed about t	he course.		
the	course	All no	All notifications about the classes or possible postponement of classes will be					
		poste	ed on the bul	I on the bulletin board and on the website of the Polytechnic at least 24				
		hour	s in advance.					
4.4 Cour	se contribution	16 So	lve engineeri	ng problems in sustaina	ble development by appla	ving		
to ti	he study	mathematics, chemistry, physics and biology						
pro	gram	18 Int	erdisciplinar	v solving of engineering	problems in sustainable			
		deve	lopment.	, c c c c				
		127 A	ssess potent	ial environmental risks a	ind cooperate in the prepa	aration of		
		envir	onment imp	act studies and EIA.				
F				of house to an a late of h	www.bow.cflost			
5. ANAL	TSIS OF COURSE TO	OPICS	the number	or hours is equal to the	number of lectures and e	exercises of		
the cour	se)							
				LECTURES				
				IVIETNO Ivietno				
				instruction nn				
				presentation)				
Hours	Topic and	descri	otion	Discovery learning	Learning outcomes	Course		
				(individual, lead,		outcome		
				discussion)				
				 Group learning 				
				Case study				

		Field classes		
1.	Introduction: concept, content, career	Direct teaching, conversation	Explain the content of the course and basic obligations	11
2.	Economy and ethic	Direct teaching, ppt	Understand sustainable ethics and creating sustainable economy, develop the ability to think critically	12
3.	Basic concepts of ecology and sustainability	Direct teaching, ppt	Understanding the basic concepts of ecology to understand the anthropogenic impact on the environment and nature.	12
4.	The structure of the planet Earth	Direct teaching, ppt	Describe the structure of the Earth	11
5.	Geological resources	Direct teaching, ppt	Distinguish geological resources	12
6.	Ores, minerals	Direct teaching, ppt	Distinquish ores and minerals	12
7.	Soil: composition, origin, value, profiles	Direct teaching, ppt	Distinguish soil profiles, get to know the structure of the soil	13
8.	Midterm exam 1	Written work	Present the acquired knowledge	16
9.	Soil pollution	Direct teaching, ppt	Explain the types of soil pollution	14
10.	Forests: abiotic and biotic factors	Direct teaching, ppt	Distinguish between abiotic and biotic factors in the forest	13
11.	Forest management: maintenance, general forest functions, hunting	Direct teaching, ppt	Explain forest management: maintenance, general forest functions, hunting	13
12.	Water resources management	Direct teaching, ppt	Explain the global role of water	12
13.	Fisheries, aquaculture	Direct teaching, ppt	Distinguish between economic and SF fisheries, explain aquaculture	13
14.	Management of protected nature areas	Direct teaching, ppt	Explain the planning documents on the basis of which it is	14

			managed of protected	
			nature areas	
15.	Midterm exam 2	Written work	Present the acquired knowledge	16
	EXEI	RCISES/ SEMINARS		
Hours	Topic and description	Method • Direct teaching (lecture, instruction, pp presentation) • Discovery learning (individual, lead, discussion • Group learning • Case study • Field classes) Learning outcomes	Course outcome
1.	Natural Resourse Conservation and Management: Past, Present and Future	Presentation, pp presentation, example, discussion	Explain the sustainability of using nat. resources	12
2.	Case study: China-birth control, ethics, meeting food needs, growth of food production	Problem solving on case analysis, discussion	e Problem solving on case analysis, discussion	15
3.			Identify the	
4.	Division of mineral resources, formation of non-renewable mineral resources, legislation	Presentation, pp presentation, example, discussion	environmental impacts of the life of minerals, energy, state the composition of non-renewable mineral resources	12
5.			Explain the	
6.	Soil: rocks, wear and soil formation processes, formation, soil microorganisms, humification	Presentation, pp presentation, example, discussion	formation of soil, humus, identify the role of microorganisms, water, humic acids in the soil	12
7.	Environmental impact of mineral use	Presentation, pp presentation, example, discussion	Identify and analyse mineral resources in life cycle impact assessment	15
8.	Impact of energy on the environment	Presentation, pp presentation, example, discussion	Identify environmental impact of energy	12
9.	Soil as a resource: Earth's structure, minerals, value and characteristics	Presentation, pp presentation, example, discussion	Describe the structure of the Earth, discuss the diversity of layers	12
10.	Case study: how much is gold worth?	Presentation, pp presentation, example, discussion	Integrate acquired knowledge in the use of MR, link ethical issues with	16

			the use of MR	
11.	Soil: profiles, classification, forest soils	Presentation, pp presentation, example, discussion	Describe profiles of soil	12
12.	Sustainable management of mineral resources: mining, mineral life, protection of geological heritage, environmental effects of mineral resources	Presentation, pp presentation, example, discussion	Integrate acquired knowledge in the use of mineral resources and geological heritage	13
13.	Seminars: impact of TPP / HPP	Problem solving by example (case analysis), discussion	Critical thinking and recognize impacts through case analysis.	12
14.	Seminars: LNG	Problem solving by example (case analysis), discussion	Critical thinking and recognize impacts through case analysis.	16
15.	Soil: soil erosion, protection and sustainable agriculture	Presentation, pp presentation, example, discussion	Describe erosion	12
16.	Study case: Dust bowl	Problem solving by example (case analysis), discussion	Critical thinking, protection through case analysis	14
17.	Soil pollution by pesticides:		Explain the role of	
18.	historical overview, division, use, hazards, health and environmental protection, removal from the soil, remediation	Presentation, pp presentation, example, discussion	pesticides, division and identify the consequences of application	12
19.			Critical thinking and	
20.	Heavy metal soil contamination: case analysis, sustainable use and regulation	example (case analysis), discussion	recognize impacts through case analysis.	12
21.	Case study: bioaccumulation and boil. magnification	Problem solving by example (case analysis), discussion	Think critically and recognize the accumulation of pesticides and heavy metals in the food web.	14
22.	Influence of biotic and abiotic factors on the forest	Presentation, pp presentation	Identify basic abiotic and biotic factors in the forest, synecological relationships	12
23.	Hunting management basics, wildlife management, legislation	Presentation, pp presentation	Use data from hunting Management Plans, learn importands of wilderness areas	13
24.	Seminars: Wildlife Management: Management Plans	Problem solving by example (Wildlife Management Plans),	Present management plans of lynx, wolf	16
25.	Global water pollution	Presentation, pp		13

		presentation	Interpret global water pollution	
			problems	
26.	Aquaculture, legislation	Presentation, pp presentation	Present the types of aquaculture	13
27.	Case Study: Irrigation, California Water Project	Problem solving by example (case analysis), discussion	Interpret the example; relationship between purpose and influence	14
28.	Landscape planning, urban ecosystem management	Presentation, pp presentation	Identify spatial planning documentation	12
29.	Seminars: National Park Management Plans	Problem solving by example (case analysis), discussion	Present NP Management Plans (protection, economic, educational and tourist activities)	16
30.	Seminars: ethics of nature conservation (sustainability of the economy and protection)	Problem solving by example (case analysis), discussion	Problem solving by example (case analysis)	16