MANNIN MA

POLYTECHNIC OF MEÐIMURJE IN ČAKOVEC

COURSE SYLLABUS							
	ACADEMIC YEAR: 2020/2021						
1. GENERAL COURSE INFO	RMATION						
1.1 Course name	Environmental sustainability						
1.2 Study program/s	Undergraduate professiona	ıl study Sustainable	Development				
1.3 Course status (O,E)	E	1.6 Mode of	Lectures	15			
1.4 Course code	4081	instruction	Exercises	30			
1.5 Course abbreviation	ES	(number of	Seminars				
1.6 Semester	V	hours)	E-learning				
1.7 ECTS	4	1.7 Place and	Premises of	the Polytechnic of			
		time of	Međimurje i	n Čakovec,			
		instruction	according to	the schedule			
			published on	the website			
2. TEACHING STAFF							
2.1 Course leader/s-title	Silvija Zeman, Ph.D,	contact	szeman@me	ev.hr			
	senior lecturer						
		contact					
2.2 Assistant/s- title		contact					
		contact					
2.3 Instruction held by-		contact					
title							
3. COURSE DESCRIPTION							
3.1 Course goals	The student gets acquain resources, ways and method approach to developmen	ods of integrated a	and environme	entally sustainable			
	resources and the environr	-	•				
	footprint that defines the e			-			
	life. Recognizing the dama	-		•			
	business systems can ca						
	development of business sy		•	_			
	development. Applications	, , , , ,	•	•			
3.2 Prerequisites	There are no conditions						
3.3 Course outcomes	After successfully completing	ng the course, stud	ents will be ab	le to:			
	I1 Distinguish and analyse t	he basic concepts of	of environmen	tal sustainability.			
	legislation and apply th	·		,,			
	12 Understand and use basi			mponents of the			
	environment: environr	·					
	soil management, soil	protection, water p	rotection, fore	est protection,			
	spatial planning.	·					
	13 Design a presentation on	a specific topic an	d present it to	the group.			
	14 Compare and select susta	ainable constructio	n systems, but	t also the			
	protection of space and			-			
	impact of spatial plans						
	environmental toleran	ce testing, the impa	act of construc	tion on the			
	environment).						

	15	examp	le of m	nutual ir	nteract	ions	pact of man s, and meas environme	ures to p		
2.4 Course content										
3.4 Course content							Blended e-	Ind	ividual	
3.5 Types of coursework	х	Lectures	Х	Exercis	es		learning		ivities	Laboratory
		Seminar	s	Distan	•		Field	Mu	ltimedia	
	х	and		learnir	-		classes	and		Mentorship
	\vdash	worksho	ps					net	work	
2.6.Language of	ш	Other								
3.6 Language of instruction	Cr	oatian /	Englich							
3.7 Monitoring students'									1_	
work (enter the	1,5	Class	attenda	nce	0,5	Se	minars		Essay	
number of ECTS	0,5	Class	activity			Pr	oject		Report	/paper
credits for each	1.0	0 00:-14				Б.,	4:1 41.		Continu	lous
activity so that the	1,0	U Milate	erm exar	ns		Pr	actical task		knowle	dge check
total number of		Writt	en exam			Ex	perimental wo	ork		
ECTS credits is equal	1,0	0 Oral e	ovam			Po	search			
to the total ECTS	1,0	U Oran	Exaili			N.E.	Searcii			
value of the course,										
1 ECTS = 30 hours)										
3.8 Assessment and										
evaluation of			Activit	y specific	ation		Percent 9	%	Points	
students' work					Assessm	ent c	during instruct	ion		_
during classes and at			endance				5% 5%		5 5	4
the final exam			ss activit	oject/ es:	sav		30%		30	-
			dterm ex	_	<i>,</i>		30%		30	1
		Mid	dterm ex				30%		30	
			Exam				idents who fai		l all the	
		Wr	itten exa		ory requi	rem	ents during the	e semester	60	-
		Tot		· · · · · · · · · · · · · · · · · · ·			100%		100	
3.9 Assessment criteria – analysis per learning				Ways of	evaluat	ing l	earning outco			
outcomes			Atter	ndance	Activi	ty	Mid-term exam 1	Mid-terr exam 2		l Total
	10	utcome 1					5	GAGIII Z	5 WOIK	10
	I —	utcome 2					10	5	5	20
	I -	utcome 3	_				10	5	5	20
	_	utcome 4	_				5	10	5	20
		utcome 5 utcome						15	5	20
	1 1 -	ot-related		5	5					10
	To	otal		5	5		30	35	25	100
		_		=			ass the mid-			ne student
	mι			east 50%	6 point	s fo	r each learr	ning outc	ome)	
			Grade							
			excelle	• •						
			very go							
			good (3	-						
	50	-62	pass (2)						
			fail (1)	,						

the exam, provided that he / she has done practical work (exercises). A student cannot access the exam period if he / she has not achieved a min for each exercise. 60% correct answers. Practical work-exercises are made according to the instructions published on the Merlin system and are submitted by placing on the Merlin. Checking the completed exercises is done in the exercise classes after prior preparation with the teacher. Throughout the semester, the student is required to perform six exercises independently. Practical work (completed exercises) is taught until the last week of lectures. During the exam; it is possible to orally check the knowledge from practical work (exercises). If a student does not achieve a sufficient number of points on the midterm exam, he / she cannot take the next midterm exam. Once achieved points in intermediate exams for each learning outcome are no longer deleted unless the student decides to correct the result for each learning outcome, whereby the points won until then are deleted and newly achieved points for that learning outcome are entered. The final grade is obtained on the exam period and is the sum of points earned during classes. Students who did not take the colloquium access the written part of the exam where all learning outcomes are checked, and are required to have completed exercises before taking the exam. 3.11 Students obligations Full-time students are required to attend at least 70% of the total number of hours of lectures and exercises in order to exercise the right to take the exam. Part-time students are required to attend at least 30% of the total number of hours of lectures and exercises in order to exercise the right to take the exam. If the student has not fulfilled all the obligations set by the course, he is obliged to attend the lectures again and meet the conditions for taking the exam. Attendance can be offset by online tuition, organised webinars and added assignments given by teachers. One lesson lasts 45 minutes, and several hours form	3.10 Specific features	If a student collects 50% of the points of each outcome, he / she directly takes
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4.2 Contact the teacher	Students can contact the teacher during the office hours and during classes, while for short questions and explanations they can contact him/her any day during working hours by coming in person or by landline. It is also possible to ask questions by e-mail, which will be answered in 48 hours at the latest. It is
	desirable for students to come as often as possible for any possible questions during the teacher's office hours.
4016	
4.3 Information about	It is the obligation of each student to be regularly informed about the course.
the course	All notifications about the classes or possible postponement of classes will be
	posted on the bulletin board and on the website of the Polytechnic at least 24
	hours in advance.
4.4 Course contribution	Interpret information, ideas, problems and solutions to professional and
to the study	general audiences
program	Use new technologies and techniques as part of the lifelong learning process Advocate an ethical approach to work and to associates in project teams Critically evaluate arguments, assumptions and data in order to form opinions and contribute to solving the problem
	Manage water, air, soil, waste and energy in a sustainable way Formulate simple problems in the field of environmental protection in order
	to solve them by applying the principles of sustainable development

5. ANALYSIS OF COURSE TOPICS (the number of hours is equal to the number of lectures and exercises of the course)

	LECTURES						
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.	Introduction to the course, teaching syllabus Historical development of ecology and ecological sustainability	Presentation, pp presentation	Interpret the concepts of ecology, ecological sustainability, biocenosis, biotope, environment, ecosystem, basic laws in the ecosystem.	I1			
2.	Global environmental problems	Presentation, pp presentation	Connect the world's population, human activities, changes in the use of natural resources, changes in flora and fauna, the impact of agriculture, industry and	I1 I2			

		T	 	
			transport on the	
			environment,	
			energy sources,	
			waste and its	
			disposal.	
3.			Describe changes in	
			land use, the	
			problem of arable	
	Human influence on the		land, erosion,	
	pedosphere, lithosphere,	Presentation, pp	compaction, use of	12
	hydrosphere and cryosphere	presentation	minerals, urban	13
	nyarosphere and cryosphere		and infrastructure	
			coverage. Changes	
			in the hydrosphere	
			and cryosphere.	
4.			Define the Law on	
			Nature Protection,	
			the Law on	
			Environmental	
			Protection, the	
			Strategy and Action	
			Plan for the	14
	Legislation on spatial management	Presentation, pp	Protection of	l1
	in protected areas	presentation	Biological and	12
			Landscape	13
			Diversity, the	
			Convention for the	
			Protection of the	
			World Cultural and	
			Natural Heritage,	
			etc.	
5.			To connect the	
			mutual influence of	
			agriculture, as an	
			economic branch,	
	Environmental sustainability	Presentation, pp	the environment in	12
	indicators	presentation	which agricultural	13
			activities take	
			place, and their	
			influence on	
			protected areas.	
6.			Define soil as a	
			source of	
			greenhouse gases,	l1
	Sustainable soil management	Presentation, pp	interpret soil roles,	12
	Sastamasic son management	presentation	describe soil	13
			management in	IJ
			ecologically	
			sensitive areas	
7.			Interpret a	12
	Sustainable waste management	Presentation, pp	comprehensive	12
	Sustamable waste management	presentation	waste management	15 15
			system	IJ
			l.	

8.	Colloquium 1			I1 I2
				13
9.			Define the	12
	Landscape protection	Presentation, pp	landscape as part	13
	Landsape protestion	presentation	of the environment	15
10.			Name the types	.5
10.	Meteorological aspects of	Presentation, pp	and sources of	12
	atmospheric pollution	presentation	pollutants in the	13
		presentation	atmosphere.	15
11.			Processes acting on	12
11.	Meteorological aspects of	Presentation, pp	atmospheric	12
	atmospheric pollution	presentation	1	15 15
40		-	pollutants.	15
12.		Presentation, pp	Describe water	13
	Groundwater protection	presentation	quality	15
			management	
13.		Presentation, pp	Describe a	13
	Forest ecology	presentation	sustainable way of	15
		p. 555551011	forest management	.5
14.			To connect the	
			impact of cities	
			(settlements) on	
			the environment	
	Environmental protection in	Procentation on	and the impact and	14
	construction - sustainable	Presentation, pp	protective	14 15
	construction	presentation	measures of	15
			construction and	
			maintenance of	
			roads on the	
			environment.	
15.	Callandiana 3			14
	Colloquium 2			15
	EXE	RCISES/ SEMINARS	T	
		Method		
		Direct teaching (lecture,		
		instruction, pp		
		presentation)		
Harres	Tanis and description	Discovery learning (individual lead	Loorning outcomes	Course
Hours	Topic and description	(individual, lead, discussion)	Learning outcomes	outcome
		•		
		Group learning Gase study		
		Case study		
		• Field classes		
1.			Connect and	
			interpret the	
			concepts of	
			ecology, ecological	
	Historical development of ecology	Group learning	sustainability,	l1
	and ecological sustainability	Oroup rearrilling	•	ΙΙ
			biocenosis,	
			biotope,	
			environment,	
			ecosystem, basic	

			laws in the	
			ecosystem.	
2.			Discuss changes in	
		Discovery learning,	the use of natural	
	Global environmental problems	guided (scientific papers	resources and	I1
		and scientific shows)	other	12
			environmental	
			issues	
3.			Define the problem	
			of arable land,	
			erosion,	
			compaction, use of	
	Human influence on the	Learning by discovery,	mineral resources,	12
	pedosphere, lithosphere,	discussion	covering cities and	13
	hydrosphere and cryosphere		infrastructure	
			facilities. Changes	
			in the hydrosphere	
			and cryosphere.	
4.			Interpret the	
			Strategy and Action	
			Plan for the	
			Protection of	
			Biological and	
			Landscape	I1
	Legislation on spatial management	Case study, discussion	Diversity, the	12
	in protected areas		Convention	13
			Concerning the	
			Protection of the	
			World Cultural and	
			Natural Heritage,	
			etc.	
5.	Environmental sustainability		Analyse the impact	12
	indicators	Case study, discussion	of agriculture on	13
			the environment	13
6.			Interpret	
			economically and	
			environmentally	
			efficient solutions	
	Sustainable soil management	Guided learning,	according to the	I1
	- Sastamable 3011 management	discussion	concept of	12
		ui3cu33iUII	sustainable	13
			agriculture. Soil	
			management in	
			environmentally	
			sensitive areas	
7.			Summarize the	
			remediation of	
			existing landfills,	12
	Sustainable waste management	Case study, discussion	Waste	13
			Management Plan	15
			of the Republic of	
			Croatia, Complete	

			waste management system	
8.	Landscape protection	Case study	Define norms and standards in landscape: parks and nature reserves, exceptional landscapes. Nature protection systems (Natura 2000 and acceptability assessment).	12 13 15
9.	Meteorological aspects of atmospheric pollution	Guided learning, discussion	Interpret the long-distance transmission of pollutants ("acid rain"). Tropospheric and stratospheric ozone ("photochemical smog, ozone holes"). Possibility of anthropogenic warming of the atmosphere ("greenhouse effect").	12 13 15
10.	Groundwater protection	Guided learning, discussion Case study	Explain the protection of drinking water sources and research in case of groundwater pollution	13 15
11.	Forest ecology	Seminars, discussion	Interpret permanent forest management	13 15
12.	Environmental protection in construction - sustainable construction	Guest lecturer, discussion	Define disturbances as a consequence of the use of buildings: residential settlements, roads. Energy renovation program of buildings projects.	14 15
13.	Spatial planning and urbanism	Guest lecturer, discussion Melita Srpak	Identify the Physical Planning Program of the Croatian Regional Plan County Spatial Plan of the city,	13 14 15

			municipal spatial plans, plans DPU / UPU, as prerequisites of green building, selection and management of sustainable locations	
14.	Measures to prevent adverse effects on the environment	Examples, discussion Guest lecturer	Select Interventions and actions in space and environment related to settlements, agriculture, forestry, soil, air, natural heritage, noise protection measures	13 14 15
15.	Seminars	discussion	Discuss environmental issues	12,3,4,5