Department of Information Sciences at the University of Zadar

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Undergraduate and Graduate Courses in English (Academic year 2022/2023 – Winter Semester > October '22 – January '23)

LECTURERS	COURSE TITLE	SEMESTER	ECTS	LEVEL
Assoc. Prof. Josip Ćirić, Ph.D.	INTRODUCTION TO LOGIC	W	6	BA
Assoc. Prof. Marijana Tomić, Ph.D.; Assitants: Nevenka Kalebić, Laura Grzunov	DIGITAL HUMANITIES	W	6	MA
Assoc. Prof. Josip Ćirić, Ph.D.	PHILOSOPHY OF INFORMATION	W	6	MA
Assoc. Prof. Josip Ćirić, Ph.D.	SCIENCE FICTION AND PHILOSOPHY	W	6	MA
TOTAL ECTS			24	
$W = winter \ sem., \ S = summer$	er sem., BA – undergraduate study, A	MA – graduate Study	v	

#### Undergraduate and Graduate Courses in English (Academic year 2022/2023 – Summer Semester > March – June '23)

LECTURERS	COURSE TITLE	SEMESTER	ECTS	LEVEL
Assoc. Prof. Marijana Tomić, Ph.D.; Assistant:	OLD BOOKS DESCRIPTION AND	S	6	BA
Laura Grzunov Assoc. Prof. Josip Ćirić, Ph.D.	ACCESS SYSTEMS INTRODUCTION TO COGNITIVE SCIENCE	S	6	BA
Assoc. Prof. Josip Ćirić, Ph.D.	INFORMATION ETHICS	S	6	MA
Assist. Prof. Ante Panjkota, Ph.D.	DATA MINING	S	6	MA
Full Prof. Ivanka Stričević, Ph.D. Assistants: Mate Juric, Assist. Prof., Alica Kolarić, Ph.D., Nikolina Peša Pavlović	HUMAN INFORMATION BEHAVIOR	S	6	MA
TOTAL ECTS			30	
W = winter sem.,	S = summer sem., BA - undergrad	luate study, MA – gr	raduate Study	,

Department	Department of Information Sciences								
Description of the courses offered in a foreign language in the academic year 2022/2023									
Title of the course	Introduct	ion to Lo	gic						
Name of the teacher	Josip Ćirić,	Associate I	Professor						
Number of ECTS credits	6	Semester		⊠ autumn/w	vinter		spring	/summer	
Teaching will be organized as	Lectures	🖾 yes	🗆 no	Consultat	ions	$\boxtimes$	yes	🗆 no	
The courses will	Lectures		Seminars			Exer	cises		
be organized as	$\boxtimes$ yes	🗆 no	$\Box$ yes	$\Box$ no		⊠y	es	🗆 no	
Description of the course Learning outcomes of the course	Students are predicate ca fundamenta statistical re By the end • be acquain • be able to • use metho proposition • use metho	lculus. Dea l to acquiring asoning, co of course, s nted with ge read formu ds of reduc al calculus;	ling with long basic top omputer arc tudents are eneral histor las in propo tio ad absur	ogic calcult bics of scient hitecture and expected to ry of logic; positional and rdum, truth	us synta ntific m nd prog o: d predi tables,	ax is c nethod gramm cate c	onside ology, ing alculu	s;	
The course is offered to	Incoming st department			e above	$\boxtimes$	] yes		] no	
	All the inco the chosen l				$\boxtimes$	] yes	Ľ	] no	
	UNIZD stue department	as an electi	ve course			] yes		⊠ no	
	All UNIZD	students as	an elective	e course		] yes	$\triangleright$	⊴ no	
The course will be	No								
offered for distance learning	Only if the	frontal (live	e) teaching	will not be	possibl	e		$\boxtimes$	
(virtual mobility)	Together w	ith the front	tal (live) tea	aching					

Department	Department of Information Sciences						
Description of th	e courses offered in a foreign language in the academic year 2022/2023						
Title of the course	Digital Humanities						

Name of the teacher	Marijana Tomić, Ph.D., Associate Professor Nevenka Kalebić, Research Assistant Laura Grzunov, Research Assistant							
Number of ECTS credits	6	Semester		⊠ autumn/w	vinter		spring/	summer
Teaching will be organized as	Lectures	🛛 yes	🗆 no	Consultat	ions	$\boxtimes$	yes	🗆 no
The courses will	Lectures		Seminars			Exe	rcises	
be organized as	⊠ yes	$\Box$ no	$\Box$ yes	🗆 no		$\boxtimes$ y	/es	🗆 no
Description of the course								anities. ). ciences
	• Dra	÷	of its own	project in I				
Learning outcomes of the course	<ul> <li>Draft proposal of its own project in DH</li> <li>Students will be able to understand: <ul> <li>theory and practice of digital humanities</li> <li>methodology of research in humanities based on the principles of information technology</li> <li>fields of digital humanities (digital palaeography, codicology, art history, archaeology, musicology, etc.)</li> <li>relation within Digital humanities and libraries</li> <li>Projects conducted in digital humanities fields</li> <li>Comparative advantages of research and presentation of linguistic corpus in digital environment</li> <li>Bases of textual editing (TEI, visualization)</li> </ul> </li> <li>Visualization of information</li> </ul>							
The course is offered to	departmen	students who t as a home of oming stude	department	t	X	] yes		] no
		oming stude home depar	-		$\boxtimes$	yes		] no

	UNIZD students enrolled at the above department as an elective course	□ yes	🛛 no
	All UNIZD students as an elective course	$\Box$ yes	$\boxtimes$ no
The course will be	No		
offered for	Only if the frontal (live) teaching will not be	$\boxtimes$	
distance learning (virtual mobility)	Together with the frontal (live) teaching		

Department	Department of Information Sciences								
Description of the courses offered in a foreign language in the academic year 2022/2023									
Title of the course		ohy of Info	rmation						
Name of the teacher	Josip Ćirio	6							
Number of ECTS credits	6	Semester		⊠ autumn/wir	nter	□ spring	g/summer		
Teaching will be organized as	Lectures	🛛 yes	🗆 no	Consultatio	ons 🛛	⊠ yes	🗆 no		
The courses will	Lectures		Seminars		E	exrcises			
be organized as	$\boxtimes$ yes	$\Box$ no	$\Box$ yes	$\Box$ no		∃ yes	$\Box$ no		
Description of the course Learning outcomes of the course	intersection sciences. S information complexite of information By the end By the end By the end Sci Ide com Ide inf	<ul> <li>yes in no is yes in no</li> <li>Philosophy of information seeks to clarify conceptual issues found in the intersection of the information sciences, philosophy and cognitive sciences. Students will encounter topics such as naturalized theory of information, computational approach to information and logic, complexity, identity and information, privacy, inforgs, ecological theory of information etc.</li> <li>By the end of the course, students are expected to: <ul> <li>Be acquainted with the basic conceptual issues in the information sciences and their relation to the philosophy</li> <li>Identify and describe the basic approach to understand the concept of the information</li> <li>Identify and describe the basic issues in the philosophy of information</li> </ul> </li> </ul>							
The course is offered to		students who it as a home of			⊠ y	res	🗆 no		
		coming stude home depar			□у	res	🗆 no		
		udents enroll it as an electi		bove	□у	res	🗆 no		
	All UNIZ	D students as	an electiv	e course	□ y	es	🗆 no		
	No								

Department	Information sciences									
Description of the co	ourses offere	ed in a f	foreig	n langua	ıg	e in the aca	demic y	ear	2022/20	23
Name of the course	Science l	Fictior	n and	l Philos	50	ophy				
Name of the teacher	Josip Ćirić	, PhD,	assoc	iate prof						
Number of ECTS credits	3		Sem	lester		□ autumn/wir	nter		⊠ spring	g/summer
Teaching will be organized as	Lectures	⊠ ye	s	🗆 no		Consultati	ions	Ø	5	🗆 no
The courses will	Lectures			Semina	Irs	S			Exercise	es
be organized as	🗹 yes	🗆 r	10	🗹 yes		🗆 no			□ yes	🗆 no
Description of the course	They both transforma students w	use cog ition an ill have ing intro	gnitiv d hun e oppo oduce	e experin nane dirr ortunity t	n ne	ction) has n entation, de ension of teo check som eir core idea	eal with chnology e pivota	con y. Ir l wo	cept 1 this cou orks of so	irse cience-
Learning outcomes of the course	0		-			s of science		<u> </u>		
of the course	Incoming s departmen	students	s who	choose	th			ye		no
The course is	All the inc chosen hor	0		0			Ŋ	ye	es 🗆 :	no
offered to	UNIZD stu departmen					lbove	□ yes □ no		no	
	All UNIZI	D stude	nts as	an elect	iv	ve course		ye	s 🗆 1	no
The course will be	No									
offered for	Only if the	fronta	l (live	e) teachir	ıg	g will not be	e possibl	e	$\boxtimes$	
distance learning (virtual mobility)	Together w	Together with the frontal (live) teaching								
The course will be	Only if the	frontal	l (live	e) teachir	ıg	g will not be	e possibl	e		$\boxtimes$
offered for distance learning (virtual mobility)	Together w	with the	front	tal (live)	te	eaching				

Department		Dep	artment of	Information Scien	ces				
Description of the courses offered in a foreign language in the academic year 2022/2023									
Title of the course	Old Boo	Old Books Description and Access Systems							
Name of the	-	Tomić, Ph.D.							
teacher		unov, teachin	ng assistan	t					
Number of ECTS credits	6	Semester		autumn/winter	🛛 spring	summer/summer			
Teaching will be organized as	Lectures	🛛 yes	🗆 no	Consultations	🛛 yes	🗆 no			
The courses will	Lectures		Seminars		Exercises				
be organized as	$\boxtimes$ yes	$\Box$ no	$\Box$ yes	$\Box$ no	$\boxtimes$ yes	$\Box$ no			
Description of the course	<ul> <li>Introd</li> <li>Analy</li> <li>Specifi</li> <li>Printe</li> <li>Projection</li> <li>Projection</li> <li>Conte</li> <li>Standation</li> <li>Authon</li> <li>Maching</li> <li>UNIM</li> <li>Apply</li> <li>rare minimized</li> <li>Visit to</li> </ul>	uction to cod tical bibliogra- ficities of old d and online ets of describi- ial –introduct nt and materi- ards and rules ial – ISBD wity control in- ine readable of IARC – UNII- ing conceptu- haterial to a library with	icology, ty aphy and t and rare n catalogues ng, digitiz ion to Dig al descript for biblic n the conte cataloguing MARC/B, al models	d old and rare mate pography and bibli- pibliographical anal- naterial in the conte- and databases of o- ation and research ital humanities pro- ion of old and rare graphic description ext of old and rare ra g of old and rare material UNIMARC/A in bibliographic org	iography lysis ext of its des old and rare : of old and ra jects material n of old and material aterial using ganization o	acription material are rare			
Learning outcomes of the course	<ul> <li>disting</li> <li>define</li> <li>organi</li> <li>unders</li> <li>unders</li> <li>as pro</li> </ul>	key terms in ization stand specific stand the valu	rare from the field: ities of old the of collect	new material codicology, bibliog d and rare material ctions of old and ra n, evaluation, desc	re material,	as well			

	<ul> <li>understand specificities of description of old and rare material, both manuscript and hand press printed</li> <li>be competent in searching printed and online catalogues of old and rare material</li> <li>apply the knowledge of description of old and rare material in the context of new conceptual models – IFLA – LRM</li> <li>master the description of old and rare material in practice</li> </ul>					
The course is offered to	Incoming students who choose the above department as a home department	🖾 yes	🗆 no			
	All the incoming students regardless of the chosen home department at UNIZD	🛛 yes	□ no			
	UNIZD students enrolled at the above department as an elective course	🛛 yes	🗆 no			
	All UNIZD students as an elective course	$\Box$ yes	$\boxtimes$ no			
The course will be	No					
offered for	Only if the frontal (live) teaching will not be	$\boxtimes$				
distance learning (virtual mobility)	Together with the frontal (live) teaching					

Department	Department of Information Sciences									
Description of the courses offered in a foreign language in the academic year 2022/2023										
Title of the course	Human I	Human Information Behavior								
Name of the teacher	Mate Juric, Alica Kola	Ivanka Stričević, Ph.D., Full Professor Mate Juric, Assistant Professor Alica Kolarić, Ph.D. Nikolina Peša Pavlović								
Number of ECTS credits	6	Semester		□ autumn/winter	⊠ spring	/summer				
Teaching will be organized as	Lectures	🖾 yes	🗆 no	Consultations	🛛 yes	🗆 no				
The courses will	Lectures		Seminars		Exercises					
be organized as	$\boxtimes$ yes	$\Box$ no	$\boxtimes$ yes	$\Box$ no	$\Box$ yes	$\Box$ no				
Description of the course	<ul> <li>Termin Behavi</li> <li>Theore in vario</li> <li>Typolo</li> <li>Informa</li> <li>Special particul</li> <li>The res</li> </ul>	or (HIB) fie tical framewous contexts gy of inform ation needs user needs lar contexts earch result	baches and ld work for une nation users of individu and inform s and meth	models in Human derstanding of user	r informatio ehavior relat IB research	n needs ed to				

	<ul> <li>Possible application of theories and research results in practice</li> <li>Participation in group discussions about the HIB related issues</li> <li>Presentation of students' drafts of pilot research studies</li> </ul>						
Learning outcomes	Students will be able to:						
of the course	• Recognize concepts and approaches in users' information needs and						
	<ul><li>behavior theories and studies</li><li>Use scholarly works in the field and interview</li></ul>	rprat it to ider	tify describe				
	and explain some models in human info						
	• Describe major theories of information l						
	leading authors						
	• Explain information needs and behavior	related to par	ticular context				
	<ul> <li>of information usage</li> <li>Recognize and explain characteristics of</li> </ul>	systems and s	services based				
	<ul> <li>Recognize and explain characteristics of systems and services based on the concept "meeting user needs"</li> </ul>						
	<ul> <li>Apply knowledge on HIB to the needs of potentially disadvantaged</li> </ul>						
	users		1.				
	• Describe and compare information behavior connected to						
	information institutions with information seeking for everyday life purposes						
	<ul> <li>Apply appropriate methodology in user needs and behavior studies</li> </ul>						
	Create and apply research instruments for pilot user studies						
The course is offered to	Incoming students who choose the above	⊠ yes	🗆 no				
offered to	department as a home department All the incoming students regardless of						
	the chosen home department at UNIZD	$\Box$ yes	🖾 no				
	UNIZD students enrolled at the above		🛛 no				
	department as an elective course	□ yes					
	All UNIZD students as an elective course	$\Box$ yes	🖾 no				
The course will be	No						
offered for distance learning	Only if the frontal (live) teaching will not be	$\boxtimes$					
(virtual mobility)	Together with the frontal (live) teaching		Together with the frontal (live) teaching				

Department	Department of Information Sciences						
Description of the courses offered in a foreign language in the academic year 2022/2023							
Title of the course	Data Mi	ning					
Name of the teacher	Ante Panj	Ante Panjkota, Ph.D., Assistant Professor					
Number of ECTS credits		Semester		□ autumn/winter	Spring/summer		
Teaching will be organized as	Lectures	🖾 yes	🗆 no	Consultations	⊠ yes □ no		
	Lectures		Seminars		Exercises		

The courses will					_		
be organized as	$\boxtimes$ yes $\square$ no $\square$ yes $\square$ n	10	⊠ y	es	⊔ no		
Description of the course	The goal of this course is to acquaint students with basic concepts, tasks, and techniques of Data Mining. Throughout the course activities main intention is on developing fundamental knowledge and skills that pertain to the application of data mining on suitable problems from different domains, e.g., image classification, stock market prediction, customer segmentation, and so on. Besides that, students will learn to set-up problems as data mining experiments with the following phases: data acquisition phase, phase of data understanding, data preparation or preprocessing stage, choosing an appropriate model for the observed task, data visualization, and data interpretation. Writing the reports of the conducted experiments, students are finishing almost the whole cycle of the research process. With this course concept, students are qualified for applying data mining techniques as a complementary research method in their master thesis.						
Learning outcomes	By the end of the course, students will be						
of the course	<ul> <li>Describe basic tasks in the data minin</li> <li>Explain the principles of the data mining regression algorithms, clustering algorithms</li> <li>Choose an appropriate data mining m</li> <li>Formulate problems suitable for solving techniques</li> <li>Define relevant measure of quality for</li> <li>Plan, design and carry out the data mining m</li> <li>Use WEKA data mining environment experiments</li> <li>Visualize and interpret results obtained experiments</li> </ul>	ing classif orithms, and odel for th ing by usin r data mini ining expent t to perform	d assoc e task g data ing mc riment n data	of inte mining odel eva s mining	rules rest g aluation		
The course is offered to	Incoming students who choose the above department as a home department		yes 🛛		] no		
	All the incoming students regardless of the chosen home department at UNIZD		] yes	$\ge$	] no		
	UNIZD students enrolled at the above department as an elective course		] yes	$\ge$	] no		
	All UNIZD students as an elective course	e 🗌	] yes	$\geq$	no		
The course will be	No						
offered for	Only if the frontal (live) teaching will not be possible $\square$						
distance learning (virtual mobility)	Together with the frontal (live) teaching $\Box$						

Department	Department of Information Sciences

Description of th	e courses of	fered in a fo	reign lang	lage in the	academ	ic yea	ar 2022	/2023
Title of the course	Introduo	Introduction to Cognitive Science						
Name of the teacher	Josip Ćirić							
Number of ECTS credits	6	Semester	Semester		vinter	Spring/summer		
Teaching will be organized as	Lectures	🛛 yes	🗆 no	Consultat	ions		yes	🗆 no
The courses will	Lectures		Seminars			Exer	rcises	
be organized as	🖾 yes	$\Box$ no	$\Box$ yes	$\Box$ no		□у	es	$\Box$ no
Description of the course	Cognitive science is a cluster of philosophy, neuroscience, psychology, linguistics, computer science and cognitive anthropology. It is strongly connected with development of computers and artificial intelligence, and it is of use to develop interdisciplinary contextualization for information science students.							
Learning outcomes of the course	<ul> <li>By the end of the course, students are expected to:</li> <li>be acquainted with general characteristics of each of six compound-sciences that form cognitive science;</li> <li>be acquainted with interdisciplinary approach to the concept of mind and its faculties;</li> <li>be capable to link knowledge gathered in this course with other related information science courses, like user studies, logic, and computer related skills</li> </ul>							
The course is offered to	-	Incoming students who choose the above department as a home department $\square$ yes $\square$ no						] no
		oming stude home depar	-		$\boxtimes$	] yes		] no
		udents enroll t as an electi		bove		] yes		] no
	All UNIZ	O students as	an electiv	e course		] yes		] no
The course will be	No							
offered for	Only if the	e frontal (live	e) teaching	will not be	e possibl	e		$\boxtimes$
distance learning (virtual mobility)	Together with the frontal (live) teaching        I							

Department	Department of Information Sciences
Description of th	e courses offered in a foreign language in the academic year 2022/2023
Title of the course	Information Ethics
Name of the teacher	Josip Ćirić

Number of ECTS credits	6	Semester		□ autumn/w	vinter	$\boxtimes$	spring/	/summer
Teaching will be organized as	Lectures	🛛 yes	🗆 no	Consultat	ions	$\boxtimes$	yes	🗆 no
The courses will	Lectures		Seminars			Exe	rcises	
be organized as	🖾 yes	$\Box$ no	🛛 yes	$\Box$ no		□у	es	$\Box$ no
Description of the course	informatic intercultur from class approache	re introduced on-communic al ethics, ecc ical ethical this s to social an ncluding phi	ation technological and heories, stude theories indestication	nology (IC) alogy, infos idents are p mplications	F), like of sphere a presented of ICT.	digita gents d with . An i	l divide , etc. S n viable nterdis	tarting e ciplinary
Learning outcomes of the course	<ul> <li>By the end of the course, students are expected to:</li> <li>be able to identify and analyze the role of ICT and related ethical issues;</li> <li>be acquainted with standard and non-standard models in moral theory;</li> <li>be acquainted in applicability of information ethics in contemporary ethical, legal and social issues considering ICT.</li> </ul>					d ethical		
The course is offered to	Incoming students who choose the above department as a home department				$\boxtimes$	] yes		] no
	All the incoming students regardless of the chosen home department at UNIZD				] yes		] no	
		udents enroll it as an electi		bove		] yes		] no
	All UNIZ	D students as	an electiv	e course		] yes		] no
The course will be	No							
offered for	Only if the frontal (live) teaching will not be possible				e		$\boxtimes$	
distance learning (virtual mobility)	Together v	with the front	tal (live) te	aching				

#### NOVI KOLEGIJ:

Department						
Description of the co	ourses offer	ed in a :	foreign langua	ge in the academic y	ear 2	022/2023
Name of the course						
Name of the teacher						
Number of ECTS credits			Semester	□ autumn/winter		□ spring/summer
Teaching will be organized as	Lectures	🗆 уе	s □ no	Consultations		yes 🗆 no

The courses will	Lectures	Seminars		Exercises		
be organized as	□ yes □ no	□ yes □ no		□ yes □ no		
Description of the course						
Learning outcomes of the course						
The course is offered to	Incoming students who department as a home		□ ye	es 🗆 no		
	All the incoming stude chosen home departme	□ ye	es 🗆 no			
	UNIZD students enroll department as an election	□ yes □ no				
	All UNIZD students as	s an elective course	□ ye	es 🗆 no		
The course will be	No					
offered for	Only if the frontal (live) teaching will not be possible $\Box$					
distance learning (virtual mobility)	Together with the fron					

The form should be filled out in English and/or other languages in which the courses are offered in