COURSES OFFERED IN A FOREIGN LANGUAGE IN THE ACADEMIC YEAR
2023/2024

Department of Information Sciences at the University of Zadar

Contents

COURSES OFFERED IN A FOREIGN LANGUAGE IN THE ACADEMIC YEAR 2023/2024

Undergraduate and Graduate Courses in English (Academic year 2023/2024 – Winter Semester > October '23 – January '24)

LECTURERS	COURSE TITLE	SEMESTER	ECTS	LEVEL
Assoc. Prof. Josip Ćirić, Ph.D.	INTRODUCTION TO LOGIC	W	6	BA
Assoc. Prof. Marijana Tomić, Ph.D.; Assistant: 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 sem., BA – undergraduate study, MA – graduate Study

COURSES OFFERED IN A FOREIGN LANGUAGE IN THE ACADEMIC YEAR 2023/2024

Undergraduate and Graduate Courses in English (Academic year 2023/2024 – Summer Semester > March – June '24)

LECTURERS	COURSE TITLE	SEMESTER	ECTS	LEVEL
Assoc. Prof. Marijana Tomić, Ph.D.; Assistant: Laura Grzunov	OLD BOOKS DESCRIPTION AND ACCESS SYSTEMS	S	6	BA
Assoc. Prof. Josip Ćirić, Ph.D.	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. Mate Juric, Assist. Prof., Alica Kolarić, Ph.D., Nikolina Peša Pavlović, Ph.D.	HUMAN INFORMATION BEHAVIOR	S	6	MA
TOTAL ECTS			**30**	
W = winter sem., S = summer sem., BA – undergraduate study, MA – graduate 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	**Introduction to Logic**			
Name of the teacher	Josip Ćirić, Associate Professor			
Number of ECTS credits	6	Semester	☒ autumn/winter	☐ spring/summer
Teaching will be organized as	Lectures	☒ yes ☐ no	Consultations	☒ yes ☐ no
The courses will be organized as	Lectures		Seminars	Exercises
	☒ yes ☐ no		☐ yes ☐ no	☒ yes ☐ no
Description of the course	Students are introduced to classical logic as well as propositional and predicate calculus. Dealing with logic calculus syntax is considered fundamental to acquiring basic topics of scientific methodology, statistical reasoning, computer architecture and programming			
Learning outcomes of the course	By the end of course, students are expected to: • be acquainted with general history of logic; • be able to read formulas in propositional and predicate calculus; • use methods of reductio ad absurdum, truth tables, and derivations in propositional calculus; • use method of truth tables in predicate calculus			
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	☐ yes ☒ no		
The course will be offered for distance learning (virtual mobility)	No	☐		
	Only if the frontal (live) teaching will not be possible	☒		
	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	**Digital Humanities**

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Name of the teacher	Marijana Tomić, Ph.D., Associate Professor Laura Grzunov, Research Assistant			
Number of ECTS credits	6	Semester	☒ autumn/winter	☐ spring/summer
Teaching will be organized as	Lectures	☒ yes ☐ no	Consultations	☒ yes ☐ no
The courses will be organized as	Lectures		Seminars	Exercises
	☒ yes ☐ no		☐ yes ☐ no	☒ yes ☐ no
Description of the course	The content of this course includes: • study of basic theoretical literature on digital humanities, its theory and practice • Concept of institutionalization of a new field, digital humanities. • Methodologies of research in digital humanities. • Textual research in digital environment. • Text encoding (TEI) and visual tagging (TILE, DocMark). • Digital palaeography and digital codicology. • Digital archaeology. • Art history in Digital humanities. • Classical philology and Digital humanities. • Digital humanities and information and communication sciences • Digital humanities and libraries • Visualization of data in humanities. • Data, infrastructure for its re-use in humanities. • Big data in humanities. • Digitization in humanities. • Description of projects conducted in the field of digital humanities • Insight at the project of digitization of old and rare material conducted at the Department of information studies • Draft proposal of its own project in DH			
Learning outcomes of the course	Students will be able to understand: ● theory and practice of digital humanities ● methodology of research in humanities based on the principles of information technology ● fields of digital humanities (digital palaeography, codicology, art history, archaeology, musicology, etc.) ● relation within Digital humanities and libraries ● Projects conducted in digital humanities fields ● Comparative advantages of research and presentation of linguistic corpus in digital environment ● Bases of textual editing (TEI, visualization) Visualization of information			
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	☐ yes	☒ no
The course will be offered for distance learning (virtual mobility)	No		☐
	Only if the frontal (live) teaching will not be possible		☒
	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	**Philosophy of Information**
Name of the teacher	Josip Ćirić

Number of ECTS credits	6	Semester	☒ autumn/winter	☐ spring/summer

Teaching will be organized as	Lectures	☒ yes ☐ no	Consultations	☒ yes ☐ no

The courses will be organized as	Lectures		Seminars		Exercises	
	☒ yes	☐ no	☐ yes	☐ no	☐ yes	☐ no

Description of the course	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.
Learning outcomes of the course	By the end of the course, students are expected to: ● Be acquainted with the basic conceptual issues in the information sciences and their relation to the philosophy ● Identify and describe the basic approach to understand the concept of the information ● Identify and describe the basic issues in the philosophy of information

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	☐ yes	☐ no
	No		☐

Department	Information sciences

Description of the courses offered in a foreign language in the academic year 2022/2023	

Name of the course	**Science Fiction and Philosophy**				
Name of the teacher	Josip Ćirić, PhD, associate prof.				
Number of ECTS credits	3	Semester	☐ autumn/winter		☑ spring/summer
Teaching will be organized as	Lectures	☑ yes ☐ no	Consultations	☑ yes ☐ no	

The courses will be organized as	Lectures	Seminars	Exercises
	☑ yes ☐ no	☑ yes ☐ no	☐ yes ☐ no

Description of the course	Science-fiction (or speculative fiction) has many ties with philosophy. They both use cognitive experimentation, deal with concept transformation and humane dimension of technology. In this course students will have opportunity to check some pivotal works of science-fiction, being introduced with their core ideas and philosophical implication they carry.
Learning outcomes of the course	Being introduced to pivotal works of science-fiction genre. Being introduced with philosophical ideas important to literature.

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	☐ yes ☐ no

The course will be offered for distance learning (virtual mobility)	No	☐
	Only if the frontal (live) teaching will not be possible	☒
	Together with the frontal (live) teaching	☐

The course will be offered for distance learning (virtual mobility)	Only if the frontal (live) teaching will not be possible	☒
	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	**Old Books Description and Access Systems**			
Name of the teacher	Marijana Tomić, Ph.D., Associate Professor Laura Grzunov, teaching assistant			
Number of ECTS credits	6	Semester	☐ autumn/winter	☒ spring/summer
Teaching will be organized as	Lectures	☒ yes ☐ no	Consultations	☒ yes ☐ no

The courses will be organized as	Lectures		Seminars		Exercises	
	☒ yes	☐ no	☐ yes	☐ no	☒ yes	☐ no

Description of the course	- Introduction to manuscript and old and rare material studies - Introduction to codicology, typography and bibliography - Analytical bibliography and bibliographical analysis - Specificities of old and rare material in the context of its description - Printed and online catalogues and databases of old and rare material - Projects of describing, digitization and research of old and rare material –introduction to Digital humanities projects - Content and material description of old and rare material - Standards and rules for bibliographic description of old and rare material – ISBD - Authority control in the context of old and rare material - Machine readable cataloguing of old and rare material using UNIMARC – UNIMARC/B, UNIMARC/A - Applying conceptual models in bibliographic organization of old and rare material - Visit to a library with old and rare material collection
Learning outcomes of the course	Students will be able to: - distinguish old and rare from new material - define key terms in the field: codicology, bibliography, information organization - understand specificities of old and rare material - understand the value of collections of old and rare material, as well as problems of its organization, evaluation, description, registration and preservation

	- understand specificities of description of old and rare material, both manuscript and hand press printed - be competent in searching printed and online catalogues of old and rare material - apply the knowledge of description of old and rare material in the context of new conceptual models – IFLA – LRM - master the description of old and rare material in practice		
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	☐ yes	☒ no
The course will be offered for distance learning (virtual mobility)	No		☐
	Only if the frontal (live) teaching will not be possible		☒
	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 Information Behavior**
Name of the teacher	Ivanka Stričević, Ph.D., Full Professor Mate Juric, Assistant Professor Alica Kolarić, Ph.D. Nikolina Peša Pavlović, Ph.D.

Number of ECTS credits	6	Semester	☐ autumn/winter	☒ spring/summer

Teaching will be organized as	Lectures	☒ yes	☐ no	Consultations	☒ yes	☐ no

The courses will be organized as	Lectures		Seminars		Exercises	
	☒ yes	☐ no	☒ yes	☐ no	☐ yes	☐ no

Description of the course	The content of this course includes: ● Terminology, approaches and models in Human Information Behavior (HIB) field ● Theoretical framework for understanding of user information needs in various contexts ● Typology of information users ● Information needs of individuals and groups ● Special user needs and information needs and behavior related to particular contexts ● The research results and methodology used in HIB research ● Implications of HIB on information services and institutions

	● Possible application of theories and research results in practice ● Participation in group discussions about the HIB related issues ● Presentation of students' drafts of pilot research studies		
Learning outcomes of the course	Students will be able to: ● Recognize concepts and approaches in users' information needs and behavior theories and studies ● Use scholarly works in the field and interpret it to identify, describe and explain some models in human information behavior field ● Describe major theories of information behaviour and identify leading authors ● Explain information needs and behavior related to particular context of information usage ● Recognize and explain characteristics of systems and services based on the concept „meeting user needs " ● Apply knowledge on HIB to the needs of potentially disadvantaged users ● Describe and compare information behavior connected to information institutions with information seeking for everyday life purposes ● Apply appropriate methodology in user needs and behavior studies ● Create and apply research instruments for pilot user studies		
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	☐ yes	☒ no
The course will be offered for distance learning (virtual mobility)	No		☐
	Only if the frontal (live) teaching will not be possible		☒
	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 Mining**			
Name of the teacher	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

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The courses will be organized as	☒ yes ☐ no	☐ yes ☐ no	☒ yes ☐ 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 of the course	By the end of the course, students will be able to: ● Describe basic tasks in the data mining ● Explain the principles of the data mining classification algorithms, regression algorithms, clustering algorithms, and association rules algorithms ● Choose an appropriate data mining model for the task of interest ● Formulate problems suitable for solving by using data mining techniques ● Define relevant measure of quality for data mining model evaluation ● Plan, design and carry out the data mining experiments ● Use WEKA data mining environment to perform data mining experiments ● Visualize and interpret results obtained from data mining experiments		

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	☐ yes ☒ no

The course will be offered for distance learning (virtual mobility)	No	☐
	Only if the frontal (live) teaching will not be possible	☒
	Together with the frontal (live) teaching	☐

Department	Department of Information Sciences

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2023/2024

Description of the courses offered in a foreign language in the academic year 2022/2023	
Title of the course	**Introduction to Cognitive Science**
Name of the teacher	Josip Ćirić

Number of ECTS credits	6	Semester	☐ autumn/winter	☒ spring/summer

Teaching will be organized as	Lectures	☒ yes	☐ no	Consultations	☒ yes	☐ no

The courses will be organized as	Lectures		Seminars		Exercises	
	☒ yes	☐ no	☐ yes	☐ no	☐ yes	☐ 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	By the end of the course, students are expected to: • be acquainted with general characteristics of each of six compound-sciences that form cognitive science; • be acquainted with interdisciplinary approach to the concept of mind and its faculties; • be capable to link knowledge gathered in this course with other related information science courses, like user studies, logic, and computer related skills

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	☐ yes ☐ no

The course will be offered for distance learning (virtual mobility)	No	☐
	Only if the frontal (live) teaching will not be possible	☒
	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	**Information Ethics**
Name of the teacher	Josip Ćirić

Number of ECTS credits	6	Semester	☐ autumn/winter	☒ spring/summer
Teaching will be organized as	Lectures	☒ yes ☐ no	Consultations	☒ yes ☐ no

The courses will be organized as	Lectures		Seminars		Exercises	
	☒ yes	☐ no	☒ yes	☐ no	☐ yes	☐ no

Description of the course	Students are introduced to basic issues of morality considering information-communication technology (ICT), like digital divide, intercultural ethics, ecological analogy, infosphere agents, etc. Starting from classical ethical theories, students are presented with viable approaches to social and ethical implications of ICT. An interdisciplinary approach including philosophy, sociology and philosophy is used.
Learning outcomes of the course	By the end of the course, students are expected to: • be able to identify and analyze the role of ICT and related ethical issues; • be acquainted with standard and non-standard models in moral theory; • be acquainted in applicability of information ethics in contemporary ethical, legal and social issues considering ICT.

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	☐ yes ☐ no

The course will be offered for distance learning (virtual mobility)	No	☐
	Only if the frontal (live) teaching will not be possible	☒
	Together with the frontal (live) teaching	☐

NOVI KOLEGIJ:

Department	
Description of the courses offered in a foreign language in the academic year 2022/2023	
Name of the course	
Name of the teacher	

Number of ECTS credits		Semester	☐ autumn/winter	☐ spring/summer
Teaching will be organized as	Lectures	☐ yes ☐ no	Consultations	☐ yes ☐ no

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The courses will be organized as	Lectures		Seminars		Exercises	
	☐ yes ☐ no		☐ yes ☐ no		☐ yes ☐ no	
Description of the course						
Learning outcomes of the course						
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			☐ yes ☐ no		
The course will be offered for distance learning (virtual mobility)	No				☐	
	Only if the frontal (live) teaching will not be possible				☐	
	Together with the frontal (live) teaching				☐	

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