

Sveučilišna avenija 4 51 000 Rijeka

SYLLABUS

KEY INFORMATION ABOUT THE COURSE			
Course title	Behaviour – a door to the mind?		
Study programme	Psychology		
Semester	2 nd , 4 th and 6 th		
Academic year	2022/2023		
ECTS credits	3		
Contact hours (Lectures + Seminars + Practical work)	30+15+0		
Time and venue of classes	Fridays 9.15 – 12, F-303		
Language of instruction	English		
Course instructor	Dr. Ljerka Ostojić		
Office number	344		
Office hours	Thursdays, 12-1p		
Phone	051/669-217		
Email	lj.ostojic@uniri.hr		
I. I	I. DETAILED COURSE DESCRIPTION		

COURSE OVERVIEW

Selected research areas using behaviour to investigate mental processes, primarily infant and non-human animal research. Challenges and constraints in such behavioural research: measurement and interpretation. Observations and experiments. Anecdotes. Language and behaviour: self-report vs. behaviour: verbal vs. behavioural responses in tasks. Behaviour and neuroscience data.

This year's planned invited lectures are on behavioural change (Dr. Florian Lange) and theory of mind (Dr. Edward Legg). Please note that the planned invited lectures are subject to changes. Invited lectures may be online (synchronous or asynchronous) or in person.

EXPECTED LEARNING OUTCOMES

After completing the course, students are expected to be able to:

- explain and analyse different approaches in behavioural research,
- state and discuss conceptual and methodological issues in behavioural research,
- describe and discuss different benefits and problems/limitations of different ways in which behaviour can be measured,

- conduct the first steps in planning and designing behavioural observations and experiments,
- critically assess scientific behavioural literature,
- communicate about behavioural research in both an academic environment as well as to the public (science communication)

WAYS IN WHICH THE	WAYS IN WHICH THE COURSE IS DELIVERED (mark with 'X')				
Lectures	Seminars		Practical work		Independent work
x		X			Х
Fieldwork	Labora	tory work	Mentoring		Other
x			X		
II. COURSE EVALUATION AND GRADING CRITERIA					
ASSESSMENT COMPONENT ECTS CR			IT ALLOCATION	MA	XIMUM POINTS (% OF TOTAL)
Class attendance	1.5				
Class participation 0.6		50			
Project-based assessmen	t		0.9		50
TOTAL					100

To obtain a grade for this course, students need to i) actively contribute to the course, ii) participate in one group project, and iii) submit a group report and participate in the project presentation.

Group Project: Student will be working on the project in groups (usually 3 to 4 students per group) and will design a behavioural study based on a given hypothetical i.e., made up research question (made up hypothesis) as well as provided information about resources, constraints, etc.

Students will receive supervisions during the project to ensure continuous support during the project. Detailed information about the project will be given during the first two weeks of the course.

Class Participation: Students will take part in seminars during the course, which may include activities such as working through tasks and problems, literature work, short presentations, and discussions.

Inclusivity:

To ensure inclusivity for all students, students who anticipate that they may have problems with the requirements for this course are asked to contact the lecturer so possible adjustments can be sorted out.

Grading:

Group projects: Participation in the group project will be graded based on the following criteria: Relevance, Preparation, Effort, Argumentation. The maximum number of points that can be obtained for participating in the group project is 20. The group project reports will be graded based on the following categories: Appropriateness of the design, Clarity of the text, Control procedures; Procedures in relation to constraints, Procedures in relation to research quality, Argumentation. The maximum number of points that can be obtained for the group project report is 30.

Class Participation: Class participation will be graded based on the following criteria: Relevance, Preparation, Effort, Connecting content, Argumentation. The maximum number of points that can be obtained for class participation is 50.

Final grades will be	Final grades will be determined as follows.		
GRADE	UNDEGRADUATE AND GRADUATE PROGRAMMES		
5 (A)	90 – 100 % points		
4 (B)	75 – 89.9 % points		
3 (C)	60 – 74.9 % points		
2 (D)	50 – 59.9 % points		
1 (F)	0 – 49.9 % points		

Final grades will be determined as follows:

III. READING

MANDATORY READING

- 1. Barrett, L. (2016). Why brains are not computers, why behaviorism is not satanism, and why dolphins are not aquatic apes. *The Behavior Analyst* 39, 9-23.
- 2. Mackintosh, N. J. (2002). Do not ask whether they have a cognitive map, but how they find their way about. *Psicológica* 23, 165-185.
- 3. Altman, J. (1974). Observational study of behavior: sampling methods. *Behaviour* 49, 227-267.
- 4. Heyes, C. M. (2012). Simple minds: a qualified defence of associative learning. *Philosophical Transactions of the Royal Society B* 367, 2695-2703.
- 5. Bates, L. A. & Byrne, R. W. (2007). Creative or created: using anecdotes to investigate animal cognition. *Methods* 42, 12-21.
- 6. Shettleworth, S. J. (2001). Animal cognition and animal behaviour. Animal Behaviour 61, 277-286.
- 7. Haith, M. M. (1998). Who put the cog in infant cognition? Is rich interpretation too costly? *Infant Behavior & Development* 21, 167-179.
- 8. Sirols, S. & Jackson, I. (2007). Social cognition in infancy: a critical review of research on higher order abilities. *European Journal of Developmental Psychology* 4, 46-64.

RECOMMENDED FURTHER READING

- 1. Heyes, C. M. (2012). What's social about social learning? *Journal of Comparative Psychology* 126, 193-202.
- 2. Barrett, L. (2012). Why behaviorism isn't Satanism. In the Oxford handbook of Comparative Evolutionary Psychology.
- 3. Hanus, D. (2016). Causal reasoning versus associative learning: a useful dichotomy or a strawman battle in comparative psychology? *Journal of Comparative Psychology* 130, 241-248.
- 4. Bekers, T., de Houwer, J., & Dwyer, D. M. (2016). Reasoning versus association in animal cognition: current controversies and possible ways forward. *Journal of Comparative Psychology* 130, 187-191.
- 5. Allen, C. & Bekoff, M. (2007). Animal minds, cognitive ethology, and ethics. *The Journal of Ethics* 11, 299-317.
- 6. Hare, B. (2001). Can competitive paradigms increase the validity of experiments on primate social cognition? *Animal Cognition* 4, 269-280.
- 7. Shettleworth, S. J. (2010). Clever animals and killjoy explanations in comparative psychology. *Trends in Cognitive Sciences* 24, 51-63.
- 8. Andrews, K. (2009). Politics or metaphysics? On attributing psychological properties to animals. *Biology & Philosophy* 24, 51-63.
- 9. Watanabe, S. (2007). How animal psychology contributes to animal welfare. *Applied Animal Behaviour Science* 106, 193-202.
- 10. Mangaliso Duncan, L. & Pillay, N. (2012). Volunteer experience influences the conclusions of behavioural experiments. *Applied Animal Behaviour Science* 140, 179-187.

IV. ADDITIONAL INFORMATION

ATTENDANCE

Attendance is mandatory. Students are allowed to miss no more than 30% of all classes without penalty.

WAYS IN WHICH STUDENTS WILL BE NOTIFIED ABOUT THIS COURSE

During teaching, through Moodle, Teams and email.

WAYS IN WHICH STUDENTS CAN COMMUNICATE WITH COURSE INSTRUCTORS

Through email and other online platforms.

INFORMATION ABOUT THE FINAL EXAM

There is no final exam on this course.

OTHER RELEVANT INFORMATION

Academic honesty

Any use of texts or other types of work by another author, as well as the use of ChatGPT or other tools whose function

is based on AI to	echnology, without a clear and unambiguous citation of the source is considered a violation of academic	
integrity princip	bles, and is a serious offence regulated by the Ordinance on Student Responsibilities.	
EXAM DATES	5	
Winter		
Spring supplementary		
Summer	19 June, and 3 July	
Autumn supplementary	31 August, and 7 September	
	V. COURSE OUTLINE	
DATE	ТОРІС	
Week 1	Introduction to the course	
Week 2	Module 1: Who researches behaviour, how, and why?	
Week 3	Module 2: When behaviour is not accompanied by language: researching congnition in infants and non-human animals	
Week 4	Module 2: When behaviour is not accompanied by language: researching congnition in infants and non-human animals	
Week 5	Module 3: When behaviour is not always the same: ecological validity	
Week 6	Module 4: When we have both behaviour and language: self-report vs. behaviour	
Week 7	Module 4: Language and Behaviour: invited lecture on behavioural change (Dr. Florian Lange, University of Leuven, Belgium)	
Week 8	Module 4: Language and Behaviour: invited lecture on theory of mind (Dr. Edward Legg)	
Week 9	Group projects	
Week 10	Module 5: When we have both behaviour and brain activity: neuroscientific methods	
Week 11	Module 5: Behaviour and neuroscience	
Week 12	Module 6: What influences measurement and interpretation of behaviour?	
Week 13	Module 7: 'Up-linkage' approach: from animals to humans	
Week 14	Group project presentations and discussions	
Week 15	Final discussion and Course evaluation	

VI. CONSTRUCTIVE ALIGNMENT				
LEARNING OUTCOMES	CONTENT	TEACHING AND LEARNING ACTIVITIES	ASSESSMENT TASKS	
explain and analyse different approaches in behavioural research	Psychology, ethology, behavioural economics, neuroscience. infant research	Lectures, group and individual tasks, seminat paper	Individual and group contribution, in seminars, group project	
state and discuss conceptual and methodological issues in behavioural research	Variables, controls, measurement, bias, vailidty, reliability, constraints	Lectures, group and individual tasks	Individual and group contribution in seminars	
describe and discuss different benefits and problems/limitations of different ways in which behaviour can be measured	Different behavioural measurements	Lectures, group and individual tasks, seminar paper	Individual and group contribution in seminars	
conduct the first steps in planning and designing behavioural observations and experiments	experiments, quasi- experiments, controls, reliability, sample and sample size, resources	Lectures, group and individual tasks, group project	Individual and group contribution in seminars, group project	
critically assess scientific behavioural literature	Conceptual and methodological challenges	Lectures, group and individual tasks, group project, seminar paper	Individual and group contribution in seminars, group project	
communicate about behavioural research in both an academic environment as well as to the public (science communication)	Behavioural research, approaches and problems	Lectures, group and individual tasks	Individual and group contribution in seminars, group project.	



Sveučilišna avenija 4 51 000 Rijeka

3SYLLABUS

KEY INFORMATION ABOUT THE COURSE			
Course title	Behaviour – a door to the mind?		
Study programme	Psychology		
Semester	2 nd , 4 th and 6 th		
Academic year	2022/2023		
ECTS credits	6		
Contact hours (Lectures + Seminars + Practical work)	30+15+0		
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- conduct the first steps in planning and designing behavioural observations and experiments,
- critically assess scientific behavioural literature,
- communicate about behavioural research in both an academic environment as well as to the public (science communication)

WAYS IN WHICH TH	WAYS IN WHICH THE COURSE IS DELIVERED (mark with 'X')				
Lectures	Sei	ninars	Practical work		Independent work
Х		X			Х
Fieldwork	Labora	tory work	Mentoring		Other
Х			X		
II. COURSE EVALUATION AND GRADING CRITERIA					
ASSESSMENT COMPONENT ECTS CRE			DIT ALLOCATION	MA	XIMUM POINTS (% OF TOTAL)
Class attendance		1.5			
Class participation		0.6			24
Project-based assessmen	nt		0.9	50	
Seminar paper			3		26
TOTAL					100

To obtain a grade for this course, students need to i) actively contribute to the course, ii) participate in one group project, and iii) submit a group report and participate in the project presentation.

Group Project: Student will be working on the project in groups (usually 3 to 4 students per group) and will design a behavioural study based on a given hypothetical i.e., made up research question (made up hypothesis) as well as provided information about resources, constraints, etc.

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Inclusivity:

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Grading:

Group projects: Participation in the group project will be graded based on the following criteria: Relevance, Preparation, Effort, Argumentation. The maximum number of points that can be obtained for participating in the group project is 20. The group project reports will be graded based on the following categories: Appropriateness of the design, Clarity of the text, Control procedures; Procedures in relation to constraints, Procedures in relation to research quality, Argumentation. The maximum number of points that can be obtained for the group project report is 30.

Seminar papers: The seminar paper will be graded based on the following criteria: Structure and flow, Clarity, Argumentation. The maximum number of points that can be obtained is 26.

Class Participation: Class participation will be graded based on the following criteria: Relevance, Preparation, Effort, Connecting content, Argumentation. The maximum number of points that can be obtained for class participation is 24.

Final grades will be determined as follows:

GRADE	UNDEGRADUATE AND GRADUATE PROGRAMMES
5 (A)	90 – 100 % points

4	· (B)	75 – 89.9 % points	
3 (C)		60 – 74.9 % points	
	(D)	50 – 59.9 % points	
	(F)	0 – 49.9 % points	
		III. READING	
MAND	ATORY RE	ADING	
1.	Barrett, L. dolphins a	(2016). Why brains are not computers, why behaviorism is not satanism, and why re not aquatic apes. <i>The Behavior Analyst</i> 39, 9-23. h, N. J. (2002). Do not ask whether they have a cognitive map, but how they find their	
	way about	. Psicológica 23, 165-185.	
3. 4.	Heyes, C.	(1974). Observational study of behavior: sampling methods. <i>Behaviour</i> 49, 227-267. M. (2012). Simple minds: a qualified defence of associative learning. <i>Philosophical ns of the Royal Society B</i> 367, 2695-2703.	
5.	Bates, L. A	A. & Byrne, R. W. (2007). Creative or created: using anecdotes to investigate animal <i>Methods</i> 42, 12-21.	
	Shettlewor Haith, M. M	th, S. J. (2001). Animal cognition and animal behaviour. <i>Animal Behaviour</i> 61, 277-286. <i>I</i> . (1998). Who put the cog in infant cognition? Is rich interpretation too costly? <i>Infant</i>	
8.	Sirols, S. &	& Development 21, 167-179. & Jackson, I. (2007). Social cognition in infancy: a critical review of research on higher ies. <i>European Journal of Developmental Psychology</i> 4, 46-64.	
RECON	MMENDED	FURTHER READING	
		M. (2012). What's social about social learning? Journal of Comparative Psychology 126,	
2.	Barrett, L. <i>Evolutiona</i>	(2012). Why behaviorism isn't Satanism. In <i>the Oxford handbook of Comparative ry Psychology.</i>	
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5.	Allen, C. & 11, 299-31	Bekoff, M. (2007). Animal minds, cognitive ethology, and ethics. <i>The Journal of Ethics</i> 7.	
6.		2001). Can competitive paradigms increase the validity of experiments on primate social <i>Animal Cognition</i> 4, 269-280.	
7.		th, S. J. (2010). Clever animals and killjoy explanations in comparative psychology. <i>Cognitive Sciences</i> 24, 51-63.	
8.	 Andrews, K. (2009). Politics or metaphysics? On attributing psychological properties to animals. Biology & Philosophy 24, 51-63. 		
9.	 Watanabe, S. (2007). How animal psychology contributes to animal welfare. Applied Animal Behaviour Science 106, 193-202. 		
10.		Duncan, L. & Pillay, N. (2012). Volunteer experience influences the conclusions of al experiments. <i>Applied Animal Behaviour Science</i> 140, 179-187.	
		IV. ADDITIONAL INFORMATION	
	DANCE		
Attenda	nce is manda	tory. Students are allowed to miss no more than 30% of all classes without penalty.	
WAYS	IN WHICH	STUDENTS WILL BE NOTIFIED ABOUT THIS COURSE	
During	teaching, tl	nrough Moodle, Teams and email.	
WAYS	IN WHICH	STUDENTS CAN COMMUNICATE WITH COURSE INSTRUCTORS	
Throug	h email and o	other online platforms.	
INFOR	MATION A	BOUT THE FINAL EXAM	

There is no final exam on this course.

OTHER RELEVANT INFORMATION

Academic honesty

Any use of texts or other types of work by another author, as well as the use of ChatGPT or other tools whose function is based on AI technology, without a clear and unambiguous citation of the source is considered a violation of academic integrity principles, and is a serious offence regulated by the Ordinance on Student Responsibilities.

EXAM DATES			
Winter			
Spring supplementary			
Summer	19 June, and 3 July		
Autumn supplementary	31 August, and 7 September		
	V. COURSE OUTLINE		
DATE	ТОРІС		
Week 1	Introduction to the course		
Week 2	Module 1: Who researches behaviour, how, and why?		
Week 3	Module 2: When behaviour is not accompanied by language: researching congnition in infants and non-human animals		
Week 4	Module 2: When behaviour is not accompanied by language: researching congnition in infants and non-human animals		
Week 5	Module 3: When behaviour is not always the same: ecological validity		
Week 6	Module 4: When we have both behaviour and language: self-report vs. behaviour		
Week 7	Module 4: Language and Behaviour: invited lecture on behavioural change (Dr. Florian Lange, University of Leuven, Belgium)		
Week 8	Module 4: Language and Behaviour: invited lecture on theory of mind (Dr. Edward Legg)		
Week 9	Group projects		
Week 10	Module 5: When we have both behaviour and brain activity: neuroscientific methods		
Week 11	Module 5: Behaviour and neuroscience		
Week 12	Module 6: What influences measurement and interpretation of behaviour?		
Week 13	Module 7: 'Up-linkage' approach: from animals to humans		
Week 14	Group project presentations and discussions		
Week 15	Final discussion and Course evaluation		

VI. CONSTRUCTIVE ALIGNMENT				
LEARNING OUTCOMES	CONTENT	TEACHING AND LEARNING ACTIVITIES	ASSESSMENT TASKS	
explain and analyse different approaches in behavioural research	Psychology, ethology, behavioural economics, neuroscience. infant research	Lectures, group and individual tasks, seminat paper	Individual and group contribution, in seminars, group project , seminar paper	
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describe and discuss different benefits and problems/limitations of different ways in which behaviour can be measured	Different behavioural measurements	Lectures, group and individual tasks, seminar paper	Individual and group contribution in seminars, seminar paper	
conduct the first steps in planning and designing behavioural observations and experiments	experiments, quasi- experiments, controls, reliability, sample and sample size, resources	Lectures, group and individual tasks, group project	Individual and group contribution in seminars, group project	
critically assess scientific behavioural literature	Conceptual and methodological challenges	Lectures, group and individual tasks, group project, seminar paper	Individual and group contribution in seminars, group project, seminar paper	
communicate about behavioural research in both an academic environment as well as to the public (science communication)	Behavioural research, approaches and problems	Lectures, group and individual tasks	Individual and group contribution in seminars, group project.	



Sveučilišna avenija 4 51 000 Rijeka

SYLLABUS

KEY INFORMATION ABOUT THE COURSE		
Course title	Psychology of human resource management	
Study programme	Psychology	
Semester		
Academic year	2022-2023.	
ECTS credits	3	
Contact hours (Lectures + Seminars + Practical work)	30+0+15	
Time and venue of classes	on Wednesday from 17.15, classroom 107	
Language of instruction	English	
Course instructor	Nada Krapić	
Office number	363	
Office hours		
Phone	051 265763	
Email	nkrapic@uniri.hr	
I. DETAILED COURSE DESCRIPTION		

COURSE OVERVIEW

The aim of the course is to provide an overview of the theory and practice in the field of human resource management (HRM). That includes information about strategic HRM, information systems, planning, recruitment, selection and staff retention, performance, satisfaction and human relations management.

Course content:

- 1. Introduction in human resource management
- 2. Strategic human resource management
- 3. Human resource information systems
- 4. Human resource planning
- 5. Recruitment, selection and staff retention
- 6. Individual and team performance management
- 7. Rewarding, learning and career development
- 8. Human relations management
- 9. Health, safety and welfare

10. Evaluation of human resource management practices

EXPECTED LEARNING OUTCOMES

By the end of this course, it is expected that students will be able to:

- 1. describe the main psychological activities in HRM
- 2. understand how theory and research are applied in HRM practice
- 3. implement one main intervention in the practice
- 4. discuss about the advantages and disadvantages of some interventions

WAYS IN WHICH THE COURSE IS DELIVERED (mark with 'X')			
Lectures	Seminars	Practical work	Independent work
x	x	x	x
Fieldwork	Laboratory work	Mentoring	Other

II. COURSE EVALUATION AND GRADING CRITERIA

ASSESSMENT COMPONENT	ECTS CREDIT ALLOCATION	MAXIMUM POINTS (% OF TOTAL)
Class attendance	0.3	10
Independent work	1.2	40
Final exam	1.5	50
TOTAL	3	100

Final grades will be determined as follows:

GRADE	UNDEGRADUATE AND GRADUATE PROGRAMMES
5 (A)	90 – 100 % points
4 (B)	75 – 89.9 % points
3 (C)	60 – 74.9 % points
2 (D)	50 – 59.9 % points
1 (F)	0 – 49.9 % points

III. READING

MANDATORY READING

1. Torrington, D., Taylor, S., Hall, L. (2007). Human resource management. Prentice Hall.

RECOMMENDED FURTHER READING

- 1. Noe, R.A., Hollenbeck J.R., Gerhart, B. & Wright P.M. (2018). Human resource management. McGraw-Hill Education.
- 2. Stone R.J. (2018). Human resource management. Wiley.
- 3. Cascio, W.F., Aguinis, H. (2010). Applied psychology in human resource management. Pearson.
- 4. Dessler, G. (2004). Human resource management. NY: Prentice Hall.
- 5. Aguinis, H. (2008). Performance management. NY: Prentice Hall.
- 6. Ployhart, R.E., Schneider, B.I. & Schmitt, N. (2005). Staffing organizations: Contemporary practice and theory. Lawrence Erlbaum Associates.

IV. ADDITIONAL INFORMATION

ATTENDANCE

Attendance is mandatory. Students are allowed to miss no more than 30% of all classes without penalty.

WAYS IN WHICH STUDENTS WILL BE NOTIFIED ABOUT THIS COURSE

WAYS IN WHICH STUDENTS CAN COMMUNICATE WITH COURSE INSTRUCTORS

Informing students will be done orally, via the bulletin board and via e-mail.

INFORMATION ABOUT THE FINAL EXAM

OTHER RELEVANT INFORMATION

Academic honesty

Any use of texts or other types of work by another author, as well as the use of ChatGPT or other tools whose function is based on AI technology, without a clear and unambiguous citation of the source is considered a violation of academic integrity principles, and is a serious offence regulated by the Ordinance on Student Responsibilities.

EXAM DATES	by and is a serious offence regarded by the ordinance on student responsionnes.	
Winter		
Spring supplementary		
Summer	13.06. i 27.06.	
Autumn supplementary	29.08. i 5.09.	
	V. COURSE OUTLINE	
DATE	TOPIC	
Week 1	1. Introduction in human resource management	
Week 2	2. Strategic human resource management	
Week 3	3. Human resource information systems	
Week 4	4. Human resource planning	
Week 5	continuation of the topic	
Week 6	5. Recruitment, selection and staff retention	
Week 7	continuation of the topic	
Week 8	6. Individual and team performance management	
Week 9	continuation of the topic	
Week 10	7. Rewarding, learning and career development	
Week 11	continuation of the topic	
Week 12	8. Human relations management	
Week 13	9. Health, safety and welfare	
Week 14	10. Evaluation of human resource management practices	
Week 15	knowledge test	

	VI. CONSTRUCTIVE ALIGNMENT			
LEARNING OUTCOMES	CONTENT	TEACHING AND LEARNING ACTIVITIES	ASSESSMENT TASKS	
Describe and explain the core areas of the discipline.	1. Introduction in human resource management	lecture, discussion	Objective and essay type of tasks on the exam.	
Describe and explain the strategic management of human resources.	2. Strategic human resource management	lecture, discussion	Objective and essay type of tasks on the exam.	
Describe and explain the human resource information systems.	3. Human resource information systems	lecture, discussion, practical work	Objective and essay type of tasks on the exam and evaluation of the practical work.	
Describe and explain the human resource planning.	4. Human resource planning	lecture, discussion, practical work	Objective and essay type of tasks on the exam and evaluation of the practical work.	
Describe and explain the recruitment, selection and staff retention.	5. Recruitment, selection and staff retention	lecture, discussion, practical work	Objective and essay type of tasks on the exam and evaluation of the practical work.	
Describe and explain the individual and team	6. Individual and team performance	lecture, discussion, practical work	Objective and essay type of tasks on the	

performance management.	management		exam and evaluation of the practical work.
Describe and explain the rewarding, learning and career development.	7. Rewarding, learning and career development	lecture, discussion, practical work	Objective and essay type of tasks on the exam and evaluation of the practical work.
Describe and explain the management of human relations.	8. Human relations management	lecture, discussion	Objective and essay type of tasks on the exam.
Describe and explain the management of employee welfare.	9. Health, safety and welfare	lecture, discussion	Objective and essay type of tasks on the exam.
Describe and explain the evaluation procedures of human resource management.	10. Evaluation of human resource management practices	lecture, discussion	Objective and essay type of tasks on the exam.



Sveučilišna avenija 4 51 000 Rijeka

SYLLABUS

KEY INFORMATION ABOUT THE COURSE		
Course title	Intelligence	
Study programme	Undergraduate study programme in Psychology	
Semester	4.	
Academic year	2022.2023.	
ECTS credits	3	
Contact hours (Lectures + Seminars + Practical work)	30 + 30 + 0	
Time and venue of classes	Tuesday 8.15 – 12.00, F-303	
Language of instruction	Croatian (lectures) / English (consultations only)	
Course instructor	Doc. dr. sc. Tamara Mohorić	
Office number	F-335	
Office hours	Monday 12.15-13.00	
Phone	265-774	
Email	tmohoric@ffri.uniri.hr	
I. I	DETAILED COURSE DESCRIPTION	

COURSE OVERVIEW

The objective is to familiarize students with relevant theories in the field of the intelligence construct: Historical and cultural perspectives; The origins of the scientific approach; Psychometric approach - general intelligence – the g-factor – Multifactor theories of intelligence; Psychometric Approach – measuring individual differences - Intelligence test construction – Laboratory research on the speed factor; Information processing; Biological approach – a variety of biological approaches – the genetic influences on intelligence; Cognitive approach – cognitive revolution - modeling intelligence processes; Newer theories of intelligence (Sternberg's triarchic theory; Gardner's theory of multiple intelligences; social and emotional intelligence); The future of the intelligence construct.

EXPECTED LEARNING OUTCOMES

By the end of the course, students will be able to:

- define the concept of intelligence, as well as describe and compare the main theories;
- compare different approaches to the intelligence construct;
- discuss the issues concerning construct research and measurement;
- draw a comparison between classical and contemporary theories of intelligence;

Lectures	N WHICH THE COURSE		D (mark with 'A') Practical work	Independent work	
	Sei	ninars x	r ractical work	x	
x Fieldwork Labora		tory work	Mentoring	Other	
		÷.	X		
	II. Co	OURSE EVAL	UATION AND GRA	DING CRITERIA	
ASSESSMENT COMPONENT ECT		ECTS CRED	IT ALLOCATION	MAXIMUM POINTS (% OF TOTA	
Class attendance		2		/	
Class participation		/		/	
Project-based assessment		0,25		30	
Continuous assessment			0,50	40	
Final exam			0,25	30	
Other			3	/	
TOTAL			3	100	
Final grades will be determ	ined as follo	ows:			
GRADE		UNDEGRAD	UATE AND GRADU	JATE PROGRAMMES	
5 (A)			90 – 100 % po		
4 (B)			75 – 89.9 % pc		
3 (C)			<u>60 - 74.9 % pc</u>		
2 (D) 1 (F)			<u>50 - 59.9 % pc</u> 0 - 49.9 % pc		
1 (F)		III			
1. Hunt, E. (2011). <i>Human</i> 2. Zarevski, P. (2012). <i>Stru</i>	intelligence ktura i prirc	e. Cambridge Ur 1990 oda inteligencije	niversity Press. 2. Naklada Slap. Jastro		
1. Hunt, E. (2011). <i>Human</i> 2. Zarevski, P. (2012). <i>Stru</i> 3. Gardner, H., Kornhaber, RECOMMENDED FUR	intelligence ktura i priro M.L. & Wa FHER REA	e. Cambridge Ur oda inteligencije uke, W.K. (1999 ADING	niversity Press. e. Naklada Slap. Jastre .) Inteligencija: Razli	barsko. <i>čita gledišta.</i> Naklada Slap. Jastrebarsko. <i>nce.</i> Cambridge University Press.	
1. Hunt, E. (2011). <i>Human</i> 2. Zarevski, P. (2012). <i>Stru</i> 3. Gardner, H., Kornhaber, RECOMMENDED FUR	intelligence ktura i priro M.L. & Wa FHER REA	e. Cambridge Ur oda inteligencije oke, W.K. (1999 A DING nbridge handbo	niversity Press. e. Naklada Slap. Jastre .) Inteligencija: Razli	<i>čita gledišta</i> . Naklada Slap. Jastrebarsko. <i>nce</i> . Cambridge University Press.	
 Hunt, E. (2011). <i>Human</i> Zarevski, P. (2012). <i>Stru</i> Gardner, H., Kornhaber, RECOMMENDED FUR⁷ Sternberg. R.J (Ur.) (202 ATTENDANCE 	intelligence ktura i priro M.L. & Wa FHER REA 20). The Can	e. Cambridge Ur oda inteligencije ike, W.K. (1999 ADING nbridge handbo IV. ADD	niversity Press. e. Naklada Slap. Jastre .) <i>Inteligencija: Razli</i> ok of human intelligen	<i>čita gledišta</i> . Naklada Slap. Jastrebarsko. <i>nce</i> . Cambridge University Press. ATION	
 Hunt, E. (2011). <i>Human</i> Zarevski, P. (2012). <i>Stru</i> Gardner, H., Kornhaber, RECOMMENDED FUR⁷ Sternberg. R.J (Ur.) (202 ATTENDANCE Attendance is mandatory. Structure 	intelligence ktura i prirc M.L. & Wa THER REA 20). The Can Students are	e. Cambridge Ur oda inteligencije oke, W.K. (1999 ADING nbridge handbo IV. ADD allowed to miss	niversity Press. 2. Naklada Slap. Jastre 3.) Inteligencija: Razli 5. ok of human intelligen 1. TIONAL INFORM 5. no more than 30% of	<i>čita gledišta</i> . Naklada Slap. Jastrebarsko. <i>nce</i> . Cambridge University Press. ATION F all classes without penalty.	
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Winter	
Spring supplementary	
Summer	16.6. at 9.00 ; 28.6. at 9.00
Autumn supplementary	30.8. and 5.9., 9.00
	V. COURSE OUTLINE
DATE	TOPIC
Week 1	Introduction and presentation of course content; Presentation of seminars
Week 2	Historical and cultural points of view, origin of scientific point of view; proposals for seminar topics
Week 3	The beginning of scientific research on intelligence; Scientific research on intelligence in psychology
Week 4	Psychometric approach: general intelligence; g-factor
Week 5	Multifactor theories of intelligence; (Non)hierarchical theories of intelligence
Week 6	Presentation of seminar papers 1
Week 7	Presentation of seminar papers 2
Week 8	Psychometric approach: examination of individual differences - construction of intelligence tests; laboratory studies of information processing speed
Week 9	Presentation of seminar papers 3
Week 10	Biological and cognitive approach
Week 11	Newer theories of intelligence; Predictive value of intelligence; The future of the construct of intelligence
Week 12	Presentation of seminar papers 4
Week 13	Mid-term exam
Week 14	National holiday
Week 15	Integration of course material

	VI. CONSTRUCTIVE ALIGNMENT			
LEARNING OUTCOMES	CONTENT	TEACHING AND LEARNING ACTIVITIES	ASSESSMENT TASKS	
Define the term intelligence and describe and compare the main theories	Historical and cultural viewpoints, Origins of the scientific viewpoint, Psychometric approach - General intelligence - g- factor - Multifactor theories of intelligence	Lectures, seminar papers	evaluation of seminar papers, objective and essay-type questions on the written exam	
Compare different approaches to the study of intelligence	Psychometric approach - Examination of individual differences - Laboratory studies of information processing speed, Biological approach - Diversity of biological approaches - Genetic influences on intelligence, Cognitive approach	Lectures, seminar papers	evaluation of seminar papers, objective-type questions on the exam, essay-type questions on the oral exam	
Explain problems in research and measurement of the construct	Construction of intelligence tests	Lectures, seminar papers, analysis of scientific work	evaluation of seminar papers, evaluation of the analysis of scientific work,	

			essay-type questions on the exam
Compare classic and recent theories of intelligence	General intelligence - g- factor - Multifactor theories of intelligence, Newer theories of intelligence - Sternberg's triarchic theory, Gardner's theory of multiple intelligences	Lectures, seminar papers	evaluation of seminar papers, objective and essay-type assignments on the exam
Assess and comment on the future of the construct of intelligence	The future of the construct of intelligence	Lectures, discussion	essay-type questions on the exam



Sveučilišna avenija 4 51 000 Rijeka

SYLLABUS

KEY INFO	RMATION ABOUT THE COURSE
Course title	Psychological schools and systems
Study programme	Psychology
Semester	
Academic year	2022-2023.
ECTS credits	3
Contact hours (Lectures + Seminars + Practical work)	30+0+0
Time and venue of classes	on Tuesday from 14.15, classroom 206
Language of instruction	English
Course instructor	Nada Krapić
Office number	363
Office hours	
Phone	051 265763
Email	nkrapic@uniri.hr
I. I	DETAILED COURSE DESCRIPTION

COURSE OVERVIEW

The aim of the course is to provide an overview of the main psychological schools and systems. We will trace roots since the founding of psychology as a scientific discipline to the present day. We will also present the work and contributions of influential psychologists.

Course content:

- 1 Introduction: voluntarism, structuralism, and other early approaches to psychology
- 2 Gestalt psychology
- 3 Psychoanalysis
- 4 Functionalism
- 5 Behaviorism
- 6 Neobehaviorism
- 7 Humanistic psychology
- 8 Psychobiology
- 9 Cognitive psychology
- 10 Contemporary psychology

EXPECTED LEARNING OUTCOMES

By the end of this course, it is expected that students will be able to:

II.

1. describe and compare the major psychological schools and systems

2. describe and compare psychological ideas and contributions of the scientists influential within each psychological system

3. describe how the ideas of different systems influenced on the development of psychology

WAYS IN WHICH THE COURSE IS DELIVERED (mark with 'X')			
WAYS IN WHICH THE	L COURSE IS DELIVERE	D (mark with 'A')	
Lectures Seminars Practical work Independent work			
x	x	x	X
Fieldwork	Laboratory work	Mentoring	Other

COURSE EVALUATION AND GRADING CRITERIA

ASSESSMENT COMPONENT	ECTS CREDIT ALLOCATION	MAXIMUM POINTS (% OF TOTAL)
Class attendance	1.0	34
Continuous assessment 1	0.7	23
Continuous assessment 2	0.7	23
Independent work and seminars	0.6	20
TOTAL	3.0	100

Final grades will be determined as follows:

GRADE	UNDEGRADUATE AND GRADUATE PROGRAMMES
5 (A)	90 – 100 % points
4 (B)	75 – 89.9 % points
3 (C)	60 – 74.9 % points
2 (D)	50 – 59.9 % points
1 (F)	0-49.9 % points
1 (F)	0 – 49.9 % points

III. READING

MANDATORY READING

1. Hergenhahn, B.R. (2013). *An introduction to the history of psychology*. Belmont, CA: Wadsworth./Thomson Learning.

RECOMMENDED FURTHER READING

- 1 Thorne, B.M., Henley, T.B. (2013). *Connections in the history and systems of psychology*. New York: Houghton Mifflin Company.
- 2 Madsen, K.B. (1988). A history of psychology in metascientific perspective. Amsterdam: Nort-Holland.
- 3 Benjamin, L.T. (2008). *A history of psychology: Original sources and contemporary research.* 3.rd edition, Hoboken: Wiley.
- 4 Smith, N.W. (2001). *Current systems in Psychology: History, theory, research and applications*. Belmont, CA: Wadsworth./Thomson Learning.

IV. ADDITIONAL INFORMATION

ATTENDANCE

Attendance is mandatory. Students are allowed to miss no more than 30% of all classes without penalty.

WAYS IN WHICH STUDENTS WILL BE NOTIFIED ABOUT THIS COURSE

WAYS IN WHICH STUDENTS CAN COMMUNICATE WITH COURSE INSTRUCTORS

Students will be informed orally, through the bulletin board and via e-mail.

INFORMATION ABOUT THE FINAL EXAM

OTHER RELEVANT INFORMATION

Academic honesty

Any use of texts or other types of work by another author, as well as the use of ChatGPT or other tools whose function is based on AI technology, without a clear and unambiguous citation of the source is considered a violation of academic integrity principles, and is a serious offence regulated by the Ordinance on Student Responsibilities.

EXAM DATES	Sectors a serious offence regulated by the ordinance on Student Responsionities.	
Winter		
Spring supplementary		
Summer	13.06. i 27.06.	
Autumn supplementary	29.08. i 5.09.	
	V. COURSE OUTLINE	
DATE	ТОРІС	
Week 1	Introduction: voluntarism, structuralism, and other early approaches to psychology	
Week 2	Gestalt psychology	
Week 3	Psychoanalysis	
Week 4	Functionalism	
Week 5	Behaviorism	
Week 6	Neobehaviorism	
Week 7	knowledge test	
Week 8	Humanistic psychology	
Week 9	Psychobiology	
Week 10	Cognitive psychology	
Week 11	Contemporary psychology	
Week 12	BBC documentary film - The Brain: A secret history	
Week 13	presentation of independent works and seminars	
Week 14	presentation of independent works and seminars	
Week 15	knowledge test	

VI. CONSTRUCTIVE ALIGNMENT			
LEARNING OUTCOMES	CONTENT	TEACHING AND LEARNING ACTIVITIES	ASSESSMENT TASKS
Describe and explain the metatheoretical sheme to compare different psychological systems.	1. Introduction: voluntarism, structuralism, and other early approaches to psychology	lecture, discussion	Objective and essay type of tasks on the knowledge test.
Describe the system and contribution of its representatives, explain the influence and compare with other systems.	2. Gestalt psychology	lecture, discussion	Objective and essay type of tasks on the knowledge test.
Describe the system and contribution of its representatives, explain the influence and compare with other systems.	3. Psychoanalysis	lecture, discussion	Objective and essay type of tasks on the knowledge test.
Describe the system and contribution of its representatives, explain	4. Functionalism	lecture, discussion	Objective and essay type of tasks on the knowledge test.

the influence and compare with other			
systems.			
Describe the system and contribution of its representatives, explain the influence and compare with other systems.	5. Behaviorism	lecture, discussion	Objective and essay type of tasks on the knowledge test.
Describe the system and contribution of its representatives, explain the influence and compare with other systems.	6. Neobehaviorism	lecture, discussion	Objective and essay type of tasks on the knowledge test.
Describe the system and contribution of its representatives, explain the influence and compare with other systems.	7. Humanistic psychology	lecture, discussion	Objective and essay type of tasks on the knowledge test.
Describe the system and contribution of its representatives, explain the influence and compare with other systems.	8. Psychobiology	lecture, discussion	Objective and essay type of tasks on the knowledge test.
Describe the system and contribution of its representatives, explain the influence and compare with other systems.	9. Cognitive psychology	lecture, discussion	Objective and essay type of tasks on the knowledge test.
Describe the system and contribution of its representatives, explain the influence and compare with other systems.	10. Contemporary psychology	lecture, discussion	Objective and essay type of tasks on the knowledge test.
Describe some of the ethical problems and specify possible forms of prevention.	11. Documentary film - The Brain: A secret history	demonstration, discussion	Objective and essay type of tasks on the knowledge test.
Development of critical thinking.	12. Presentation of independent works and seminars	independent work, seminar	Evaluation of the independent work and seminars.



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3SYLLABUS

KEY INFORMATION ABOUT THE COURSE		
Course title	Science in Crisis?	
Study programme	Psychology	
Semester	4 th and 6 th	
Academic year	2022/2023	
ECTS credits	3	
Contact hours (Lectures + Seminars + Practical work)	30+15+0	
Time and venue of classes	Thursdays 3.15 – 6 pm, F-405	
Language of instruction	English	
Course instructor	Dr. Ljerka Ostojić	
Office number	344	
Office hours	Thursdays, 12-1p	
Phone	051/669-217	
Email	lj.ostojic@uniri.hr	
I. DETAILED COURSE DESCRIPTION		

COURSE OVERVIEW

Principles of science; Replicability crisis: claims, evidence, counter-arguments, Replications: types, value to science, challenges, Questionable Research Practices; contemporary issues with validity and generalisation of scientific results; 'Credibility' movements: Meta-science, large-scale collaborations, Open Science tools; Pre-registrations and registered reports; science as a situated activity within academia, science as a situated activity within society, science communication; fraud and error detection, dangers of a 'crisis' narrative at the individual level and at a societal level

EXPECTED LEARNING OUTCOMES

After completing the course, students are expected to be able to:

 describe and critically evaluate what has become known as the 'credibility revolution' within psychological and related biological sciences. This includes questions and issues about replicability, reproducibility, validity, and generalisability of empirical findings as well as recent movements that have formed as a result of these issues (e.g., metascience as a new research area; Open Science tools, multi-lab collaborations),

- discuss science as a situated endeavour (incl. academic structure, hiring and promotion, publishing systems, funding bodies),
- argue about claims of science in crisis from a multi-disciplinary and interdisciplinary perspective,
- analyse how outcomes of science are perceived by the public and which factors influence these processes,
- critically evaluate claims in scientific articles,
- analyse examples of science communication,

evaluate different Open Science tools, and discuss their benefits and challenges.

WAYS IN WHICH THE COURSE IS DELIVERED (mark with 'X')

Lectures	Seminars	Practical work	Independent work
X	X		Х
Fieldwork	Laboratory work	Mentoring	Other
		x	

II. COURSE EVALUATION AND GRADING CRITERIA

ASSESSMENT COMPONENT	ECTS CREDIT ALLOCATION	MAXIMUM POINTS (% OF TOTAL)
Class attendance	1.5	
Class participation	0.6	50
Project-based assessment	0.9	50
TOTAL		100

To obtain a grade for this course, students need to i) actively contribute to the course, ii) participate in one group project, and iii) submit a group report and participate in the project presentation.

Group Project: Student will be working on the project in groups (usually 4 students per group). Each group will choose a project among the offered topics (e.g., a meta-scientific investigation of publication bias in a selected research area or an analysis of differences of claims in scientific literature and reports of it for the public). The group project will include a short analyses and literature review, a short empirical research project, descriptive analysis and visualisation of data, as well as a presentation for other students and a final report.

Students will receive detailed written feedback for their group project report, and - if they want - additional oral feedback.

Class Participation: Students will take part in seminars during the course, which may include activities such as working through tasks and problems, literature work, short presentations, and discussions.

Inclusivity: To ensure inclusivity for all students, students who anticipate that they may have problems with the requirements for this course are asked to contact the lecturer so possible adjustments can be sorted out.

Grading:

Group projects: Group project reports will be graded basen on the following categories: Structure and flow, Clarity, Accuracy of arguments, Methodological aspects of the work, Description and visualisation of results, Appropriateness of claims. The maximum number of points that can be obtained for the group project report is 50.

Class Participation: Class participation will be graded based on the following criteria: Relevance, Preparation, Effort, Connecting content, Argumentation. The maximum number of points that can be obtained for the group project report is 50.

Final grades will be determined as follows:

GRADE	UNDEGRADUATE AND GRADUATE PROGRAMMES
5 (A)	90 – 100 % points
4 (B)	75 – 89.9 % points
3 (C)	60 – 74.9 % points
2 (D)	50 – 59.9 % points

	(F) $0-49.9\%$ points		
	III. READING		
MAND	ATORY READING		
1.	Podcast by BBC Radio 4, Analysis: The Replication Crisis, 12 November 2018,		
	https://www.bbc.co.uk/sounds/play/m00013p9		
2.			
	349, doi: 10.1126/science.aac4716.		
3.	Smaldino, P. E. & McElreath, R. (2016). The natural selection of bad science. Royal Society Open		
	Science, doi: 10.1098/rsos.160384.		
4.	Asendorpf, J. B., Conner, M., Fruyt, F. D., Houwer, J. D., Denissen, J. J. A., Fiedler, K., & Wicherts,		
	J. M. (2013). Recommendations for increasing replicability in psychology. European Journal of		
	Personality 27, 108-119.		
5.	Munafò, M. R. et al. (2017). A manifesto for reproducible science. Nature Human Behaviour 1,		
	0021.		
6.	Fanelli, D. (2018). Is science really facing a reproducibility crisis, and do we need it to? Proceedings		
	of the National Academy of Science 115, doi: 10.1073/pnas.178272114.		
7.	Lewandowsky, S. & Oberauer, K. (2020). Low replicability can support robust and efficient science.		
	Nature Communications 11, doi: 10.1038/s41467-019-14203-0.		
8.	Leonelli, S. (2018). Re-thinking reproducibility as a criterion for research quality. [Pre-print].		
	http://philsci-archive.pitt.edu/14352/1/Reproducibility_2018_SL.pdf		
Peters	on, D. (2016). The baby factory: difficult research objects, disciplinary standards, and the production		
of stati	stical significance. Socius 2, 2378023115625071.		
RECO	MMENDED FURTHER READING		
1.	Button, K. S., A., Ionnadis, J. P., Mukrysz, C., Nosek, B. A., Flint, J. J., Robinson, E. S. & Munafò,		
	M. R. (2013). Power failure: why small sample size undermines the reliability of neuroscience.		
	Nature Publishing Group 14, https://doi.org/10.1038/nrn3475.		
2.	Fanelli, D. (2012). Negative results are disappearing from most disciplines and countries.		
	Scientimetrics 90, 891-904.		
3.	John, L. K., Loewedenstein, G. & Prelec, D. (2012). Measuring the prevalence of questionable		
	research practices with incentives for truth telling. Psychological Science 23, 524-532.		
4.	Chapman, C. A., Bizza/Marques, J. C., Calvignac-Spencer, S., Fan, P., Fashing, P. J., Gogarten, J.,		
	Gup, S., Hemingway, C. A., Leendertz, F., Li, B., Matsuda, I., Hou, R., Serio-Silva, J. C., Stenseth,		
	N. Chr. (2019). Games academics play and their consequences: how authorship, <i>h</i> -index and		
	journal impact factors are shaping the future of academia. Proceedings of the Royal Society B 186,		
	doi: 10.1098/rspv.2019.2047.		
5.	loannidis, J. P. A. (2005). Why most published research findings are false. <i>PLoS Medicine</i> 2, e124.		
6.	Flis, I. (2019). Psychologists psychologising scientific psychology: an epistemological reading of the		
	replication crisis. Theory & Psychology 29, 158-181.		
7.	Sumner, P., Vivian-Griffith, S., Boivin, J., Williams, A., Bott, L., Adams, R., Venetis, C. A., Whelan,		
	L., Hughes, B., & Chambers, C. D. (2016). Exaggerations and caveats in press relases and health-		
	related science news. PLoS ONE 11, e0168217.		
8.	Figdor, C. (2017). (When) Is science reporting ethical? The case for recognizing shared epistemic		
	responsibility in science journalism. Frontiers in Communication 2, doi: 10.3389/fcomm.2017.00003.		
9.	Zwaan, E. A., Etz, A., Lucas, E. R., & Donnellan, M. B. (2017). Making replication mainstream.		
	Behavioural and Brain Sciences 41, e120.		
10	Podcast by ReproducibiliTea: Episode 11: Ivan Flis.		
	https://soundcloud.com/reproducibilitea/episode-11-ivan-flis.		
Podca	t by Two Psychologists Four Beers: The replication crisis gets personal. 4 July 2018;		
	fourbeers.fireside.fm/4.		
	IV. ADDITIONAL INFORMATION		
ATTE			
	ATTENDANCE		
Attenda	nce is mandatory. Students are allowed to miss no more than 30% of all classes without penalty.		

WAYS IN WHICH STUDENTS WILL BE NOTIFIED ABOUT THIS COURSE

During teaching, through Moodle, Teams and email.

WAYS IN WHICH STUDENTS CAN COMMUNICATE WITH COURSE INSTRUCTORS

Through email and other online platforms.

INFORMATION ABOUT THE FINAL EXAM

There is no final exam on this course.

OTHER RELEVANT INFORMATION

Academic honesty

Any use of texts or other types of work by another author, as well as the use of ChatGPT or other tools whose function is based on AI technology, without a clear and unambiguous citation of the source is considered a violation of academic integrity principles, and is a serious offence regulated by the Ordinance on Student Responsibilities.

EXAM DATES

Week 12

Week 13

Week 14

Week 15

EARNI DATER			
Winter			
Spring supplementary			
Summer	19 June, and 3 July		
Autumn supplementary	31 August, and 7 September		
	V. COURSE OUTLINE		
DATE	ТОРІС		
Week 1	Introduction to the course		
Week 2	Module 1: Lack of theory – we can predict the future?		
Week 3	Module 2: Replication crisis - introduction		
Week 4	Module 2: Replication crisis: How do we replicate?		
Week 5	Module 2: Replication crisis – how do we get the results that we want?		
Week 6	Module 2: Replication crisis. what, how, and when to replicate]		
Week 7	Module 3L After the first shock due to the replication crisis – what now?		
Week 8	Group projects		
Week 9	Module 4: Scientists vs. science – what benefits the former, what the latter?		
Week 10	Module 5: Fraud and error detection		
Week 11	Module 6: Open Science offers solutions? Part 1		

Module 6: Open Science offers solutions? Part 2

Module 7: Dangers of the Crisis narrative

Final discussion and Course evaluation

Group project presentations and discussions

VI. CONSTRUCTIVE ALIGNMENT			
LEARNING OUTCOMES	CONTENT	TEACHING AND LEARNING ACTIVITIES	ASSESSMENT TASKS
describe and critically evaluate what has become known as the 'credibility revolution' within psychological and related biological sciences. This includes questions and issues about replicability, reproducibility, validity and generalisability of empirical findings as well as recent movements that have formed as a result of these issues (e.g. metascience as a new research area; Open Science tools, multi-lab collaborations)	Methodological reform movement in psychology and related biological disciplines, replicability and validity, generalisation	Lectures, group and individual tasks	Individual and group contribution in seminars, group project
discuss science as a situated endeavour (incl. academic structure, hiring and promotion, publishing systems, funding bodies)	Academic structure, publishing, science funding	Lectures, group and individual tasks	Individual and group contribution in seminars, group project
argue about claims of science in crisis from a multi-disciplinary and interdisciplinary	Relationship between methodlogical reforms and philosophy od science and individual notions of what science is and how it should work	Lectures, group and individual tasks	Individual and group contribution in seminars, group project
analyse how outcomes of science are perceived by the public and which factors influence these	Scientific literature, science communication, status of experts	Lectures, group and individual tasks, group project	Individual and group contribution in seminars, group project
critically evaluate claims in scientific articles	Replicability, generalisation, validity, questionable research practices, publication bias	Lectures, group and individual tasks, group project	Individual and group contribution in seminars, group project

analyse examples of science communication	Science communication, different media	Lectures, group and individual tasks, group project	Individual and group contribution in seminars, group project
evaluate different Open Science tools, and discuss their benefits and challenges	Open data, open code, preregistrations, multi lab collaborations	Lectures, group and individual tasks	Individual and group contribution in seminars



Sveučilišna avenija 4 51 000 Rijeka

3SYLLABUS

KEY INFORMATION ABOUT THE COURSE			
Course title	Science in Crisis?		
Study programme	Psychology		
Semester	4 th and 6 th		
Academic year	2022/2023		
ECTS credits	6		
Contact hours (Lectures + Seminars + Practical work)	30+15+0		
Time and venue of classes	Thursdays 3.15 – 6 pm, F-405		
Language of instruction	English		
Course instructor	Dr. Ljerka Ostojić		
Office number	344		
Office hours	Thursdays, 12-1p		
Phone	051/669-217		
Email	lj.ostojic@uniri.hr		
I. DETAILED COURSE DESCRIPTION			

COURSE OVERVIEW

Principles of science; Replicability crisis: claims, evidence, counter-arguments, Replications: types, value to science, challenges, Questionable Research Practices; contemporary issues with validity and generalisation of scientific results; 'Credibility' movements: Meta-science, large-scale collaborations, Open Science tools; Pre-registrations and registered reports; science as a situated activity within academia, science as a situated activity within society, science communication; fraud and error detection, dangers of a 'crisis' narrative at the individual level and at a societal level

EXPECTED LEARNING OUTCOMES

After completing the course, students are expected to be able to:

 describe and critically evaluate what has become known as the 'credibility revolution' within psychological and related biological sciences. This includes questions and issues about replicability, reproducibility, validity, and generalisability of empirical findings as well as recent movements that have formed as a result of these issues (e.g., metascience as a new research area; Open Science tools, multi-lab collaborations),

- discuss science as a situated endeavour (incl. academic structure, hiring and promotion, publishing systems, funding bodies),
- argue about claims of science in crisis from a multi-disciplinary and interdisciplinary perspective,
- analyse how outcomes of science are perceived by the public and which factors influence these processes,
- critically evaluate claims in scientific articles,
- analyse examples of science communication,

evaluate different Open Science tools, and discuss their benefits and challenges.

WAYS IN WHICH THE COURSE IS DELIVERED (mark with 'X')

Lectures	Seminars	Practical work	Independent work
X	Х		Х
Fieldwork	Laboratory work	Mentoring	Other

II. COURSE EVALUATION AND GRADING CRITERIA

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ASSESSMENT COMPONENT	ECTS CREDIT ALLOCATION	MAXIMUM POINTS (% OF TOTAL)
Class attendance	1.5	
Class participation	0.6	24
Project-based assessment	0.9	50
Seminar paper	3	26
TOTAL		100

To obtain a grade for this course, students need to i) actively contribute to the course, ii) participate in one group project, and iii) submit a group report and participate in the project presentation.

Group Project: Student will be working on the project in groups (usually 4 students per group). Each group will choose a project among the offered topics (e.g., a meta-scientific investigation of publication bias in a selected research area or an analysis of differences of claims in scientific literature and reports of it for the public). The group project will include a short analyses and literature review, a short empirical research project, descriptive analysis and visualisation of data, as well as a presentation for other students and a final report.

Students will receive detailed written feedback for their group project report, and - if they want - additional oral feedback.

Class Participation: Students will take part in seminars during the course, which may include activities such as working through tasks and problems, literature work, short presentations, and discussions.

Inclusivity: To ensure inclusivity for all students, students who anticipate that they may have problems with the requirements for this course are asked to contact the lecturer so possible adjustments can be sorted out.

Grading:

Group projects: Group project reports will be graded based on the following categories: Structure and flow, Clarity, Accuracy of arguments, Methodological aspects of the work, Description and visualisation of results, Appropriateness of claims. The maximum number of points that can be obtained for the group project report is 50.

Class Participation: Class participation will be graded based on the following criteria: Relevance, Preparation, Effort, Connecting content, Argumentation. The maximum number of points that can be obtained for the group project report is 24.

Seminar paper: The paper will be graded according to the following criteria: Structure and flow, Clarity, Argumentation. The maximum number of points that can be obtained is 26.

CI	RADE	UNDEGRADUATE AND GRADUATE PROGRAMMES
	(A)	90 - 100% points
	(A) (B)	75 – 89.9 % points
	(\mathbf{C})	60 - 74.9% points
	$\frac{P(C)}{P(D)}$	50 – 59.9 % points
	(D) (F)	0 - 49.9 % points
1	(1)	III. READING
TAND	ATORY RE	
		y BBC Radio 4, <i>Analysis: The Replication Crisis</i> , 12 November 2018,
1.		w.bbc.co.uk/sounds/play/m00013p9
2		nce Collaboration (2015). Estimating the reproducibility of psychological science. <i>Science</i>
۷.		0.1126/science.aac4716.
3.		P. E. & McElreath, R. (2016). The natural selection of bad science. Royal Society Open
5.		loi: 10.1098/rsos.160384.
4		, J. B., Conner, M., Fruyt, F. D., Houwer, J. D., Denissen, J. J. A., Fiedler, K., & Wicherts
4.		3). Recommendations for increasing replicability in psychology. <i>European Journal of</i>
		γ 27, 108-119.
Б	-	I. R. et al. (2017). A manifesto for reproducible science. <i>Nature Human Behaviour</i> 1,
5.	0021.	. R. et al. (2017). A mannesio for reproducible science. Nature Human Benaviour 1,
6		(2018). Is science really facing a reproducibility crisis, and do we need it to? Proceeding
0.		onal Academy of Science 115, doi: 10.1073/pnas.178272114.
7		
1.		/sky, S. & Oberauer, K. (2020). Low replicability can support robust and efficient science
0		mmunications 11, doi: 10.1038/s41467-019-14203-0.
8.		5. (2018). Re-thinking reproducibility as a criterion for research quality. [Pre-print].
0		ci-archive.pitt.edu/14352/1/Reproducibility_2018_SL.pdf
9.		D. (2016). The baby factory: difficult research objects, disciplinary standards, and the
ECOL		of statistical significance. <i>Socius</i> 2, 2378023115625071.
		FURTHER READING
1.		S., A., Ionnadis, J. P., Mukrysz, C., Nosek, B. A., Flint, J. J., Robinson, E. S. & Munafò,
		3). Power failure: why small sample size undermines the reliability of neuroscience.
•		blishing Group 14, https://doi.org/10.1038/nrn3475.
2.		(2012). Negative results are disappearing from most disciplines and countries.
•		trics 90, 891-904.
3.		., Loewedenstein, G. & Prelec, D. (2012). Measuring the prevalence of questionable
		practices with incentives for truth telling. <i>Psychological Science</i> 23, 524-532.
4.		C. A., Bizza/Marques, J. C., Calvignac-Spencer, S., Fan, P., Fashing, P. J., Gogarten,
		lemingway, C. A., Leendertz, F., Li, B., Matsuda, I., Hou, R., Serio-Silva, J. C., Stenseth
		019). Games academics play and their consequences: how authorship, <i>h</i> -index and
		pact factors are shaping the future of academia. <i>Proceedings of the Royal Society B</i> 186
_		98/rspv.2019.2047.
		J. P. A. (2005). Why most published research findings are false. <i>PLoS Medicine</i> 2, e124
6.	· · · ·	19). Psychologists psychologising scientific psychology: an epistemological reading of the
-		crisis. Theory & Psychology 29, 158-181.
1.		P., Vivian-Griffith, S., Boivin, J., Williams, A., Bott, L., Adams, R., Venetis, C. A., Whelan,
		s, B., & Chambers, C. D. (2016). Exaggerations and caveats in press relases and health
~		ence news. <i>PLoS ONE</i> 11, e0168217.
8.	Figdor, C.	(2017). (When) Is science reporting ethical? The case for recognizing shared epistemic
-		lity in science journalism. Frontiers in Communication 2, doi: 10.3389/fcomm.2017.0000
9.		A., Etz, A., Lucas, E. R., & Donnellan, M. B. (2017). Making replication mainstream.
		al and Brain Sciences 41, e120.
10.		y ReproducibiliTea: Episode 11: Ivan Flis.
		ndcloud.com/reproducibilitea/episode-11-ivan-flis.
11.		y Two Psychologists Four Beers: The replication crisis gets personal. 4 July 2018;
	https://four	rbeers.fireside.fm/4.

Attendance is mandatory. Students are allowed to miss no more than 30% of all classes without penalty.

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Week 12	Module 6: Open Science offers solutions? Part 2
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