Study programme

Part A) of the study programme *

Learning outcomes

Level of study: Level of the Polish Qualifications Framework: level 7	Faculty offering	the field of study:	Faculty of Philosophy and Social Sciences
Level of the Polish Qualifications Framework: general academic	Field of study:		
Professional degree awarded to the graduate: Allocation of the field of study within academic or artistic discipline(s), to which learning outcomes for a given field of study refer: - Social Communicatic and Media Sciences (57 - Psychology (10%) - Informatics (10%) - Mathematics (10%) - Life Sciences (10%) - Life Sciences (10%) - Philosophy (3%) - Life Sciences (10%) - Philosophy (3%) - Life Sciences (10%) - Philosophy (3%) - Major discipline: Social Communication and Media Sciences Symbol Upon completion the graduate achieves the learning outcomes specified below: K_W01	Level of study:		second cycle
Professional degree awarded to the graduate: Allocation of the field of study within academic or artistic discipline(s), to which learning outcomes for a given field of study refer: Biscipline(s), to which learning outcomes for a given field of study refer: Biscipline(s), to which learning outcomes for a given field of study refer: Biscipline(s), to which learning outcomes for a given field of study refer: Biscipline(s), to which learning outcomes for a given field of study refer to the dead of the study of the stu	Level of the Polis	sh Qualifications Framework:	level 7
Allocation of the field of study within academic or artistic discipline(s), to which learning outcomes for a given field of study refer: - Social Communication and Media Sciences (57 - Psychology (10%) - Informatics (10%) - Mathematics (10%) - Philosophy (3%) - P	Degree profile:		general academic
discipline(s), to which learning outcomes for a given field of study refer: Social Communicatic and Media Sciences (57 - Psychology (10%) - Informatics (10%) - Mathematics (10%) - Mathematics (10%) - Philosophy (3%) - Philoso	Professional deg	ree awarded to the graduate:	magister
Symbol Upon completion the graduate achieves the learning outcomes specified below: KNOWLEDGE (the graduate knows and understands)	discipline(s), to v		- Social Communication and Media Sciences (57%) - Psychology (10%) - Informatics (10%) - Mathematics (10%) - Life Sciences (10%) - Philosophy (3%) Major discipline: Social Communication
KNOWLEDGE (the graduate knows and understands) K_W01	Symbol	Upon completion the graduate achieves th	
K_W03 Student understands the most important algorithms and methods used in given subject K_W04 Student has advanced and extensive knowledge of Python features K_W05 Student knows in-depth level the research methods and argumentative strategies approprione of the major subdisciplines of cognitive sciences K_W06 Student knows different approaches to computational modeling K_W07 Student has systematized and detailed knowledge of computational tools K_W08 Student is familiar with theorems and laws of selected fields K_W09 Student has systematized and detailed knowledge about research practices, used logic and conclusions K_W10 Student is familiar with the notions used in given subjects K_W11 Student understands the physiology of neural system SKILLS (the graduate is capable of) K_U01 Student is capable of verify hypotheses K_U02 Student is able to use advanced Python features to solve real-world problems and research K_U03 Student is capable of write clean Python code K_U04 Student is able to study and critically evaluate research papers in English K_U05 Student is able to communicate acquired knowledge of functional brain development in Er K_U06 Student is capable of selecting the computational method to carry out computations and scientific questions K_U07 Student is able to works with matrices		Student knows in-depth level the terminology of Co	gnitive Science in English
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K_U06 Student is capable of selecting the computational method to carry out computations and scientific questions K_U07 Student is able to works with matrices			- · ·
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K_U07 Student is able to works with matrices	K_U06		nethod to carry out computations and answer
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			responses to aritisism
 K_U08 Student selects argumentative strategies, formulates responses to criticism K_U09 Student has advanced skills in constructing proofs and testing hypotheses 			

K_U10	Student is able to organize his own work and can work in a team
K_U11	The student is able to use English language in the field of science and scientific disciplines relevant
	to the studied field of study, in accordance with the requirements specified for the B2 +level of the
	European System for the Description of Languages
	SOCIAL COMPETENCES (the graduate is willing to)
K_K01	Student understands the significance of the scientific method in problem solving
K_K02	Student participates in discussion and is open to share his/her knowledge with other students
K_K03	Student understands the need for continuous training and professional development
K_K04	Student on the basis of creative analysis of new situations and problems independently student
	formulates proposals for their solution
K_K05	Student is open to new ideas and willing to change opinion in the light of available data
K_K06	Student finds solutions to problems on forums and discussion groups and can provide information
	on how to solve standard difficulties that arise during work

Part B) of the study programme

Description of the process resulting in the achievement of learning outcomes

Faculty offering the field of study:	Faculty of Philosophy and Social Sciences
Field of study:	Cognitive Science
Level of study:	second cycle
Level of the Polish Qualifications Framework:	Level 7
Degree profile:	general academic
Allocation of the field of study within academic or artistic discipline(s), to which	Discipline:
learning outcomes for a given field of study refer:	- Social Communication and Media Sciences 57%
	- Psychology 10%
	- Informatics 10%
	- Mathematics 10%
	- Life Sciences 10%
	- Philosophy 3%
	Major discipline: Social Communication and Media Sciences
Mode of study:	full-time programme
Number of semesters:	4
Number of ECTS required for the award of qualifications corresponding to the	120
level:	
Total number of teaching hours:	960
Professional degree awarded to the graduate:	Master

The field of study is created in connection with the commitment in the application for Excellence Initiative – Research University to create at least 3 new English-language fields of study around priority research areas. It also fits in with the internationalization strategy. The program of studies and staff consisting of academic teachers and outstanding researchers representing various scientific fields aims, among other things, to create appropriate conditions for undertaking joint research projects, which is in line with the NCU strategy for 2021-2026, (especially the second operational goal of the Nicolaus Copernicus University, mentioned in point II.2 - promoting interdisciplinary education and research; II.5 – ensuring high-quality teaching; II. 4 – increasing international position and attractiveness of study programs offered at NCU and creating opportunities for students' mobility).

Courses/course modules along with expected learning outcomes *									
Course module	Course	Expected learning outcomes	Forms and methods of teaching ensuring the achievement of learning outcomes	Methods of verifying and assessing expected learning outcomes achieved by the student					
Course module I Obligatory General Module	Advanced statistics Linear algebra - an introduction to data analysis Cognitive Psychology	K_W01 Student knows indepth level the terminology of Cognitive Science in English K_W02 Student has an advanced knowledge about the syntax of presented programming languages K_W03 Student understands the most important algorithms	Expository teaching methods: - informative lecture - problem-based lecture - discussion Exploratory teaching methods: - laboratory - experimental - classic problem-solving	graded credit -test -presentation of a paper Examination -written examination					

Developmental Neuropsychology Network Neuroscience Theory of computation Basic introduction to programming with Matlab and Octave Artificial Neural Networks Advanced Programming Machine learning Eye tracking in Cognitive Science Eye tracking in Cognitive Science Subject K_WO8 Student knows indepth level the research methods and argumentative strategies appropriate for one of the major subdisciplines of cognitive sciences K_W06 Student knows different approaches to computational modeling K_W07 Student has systematized and detailed knowledge of computational tools K_W08 Student is familiar with theorems and laws of selected fields K_W09 Student has systematized and detailed knowledge about research practices, used logic and making conclusions K_W10 Student is familiar with the notions used in given subjects K_W11 Student is familiar with the notions used in given subjects K_W11 Student is capable of verify hypotheses K_U01 Student is capable of verify hypotheses K_U01 Student is capable of verify hypotheses K_U02 Student is about the sample of the major and the physiology of neural system	_			
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solve real-world problems and research tasks K U03 Student is capable of write clean Python code K U04 Student is able to study and critically evaluate research papers in English K U05 Student is able to communicate acquired knowledge of functional brain development in English K U06 Student is capable of selecting the computational method to carry out computations and answer scientific questions K U07 Student is able to works with matrices K U08 Student selects argumentative strategies, formulates responses to criticism K U09 Student has advanced skills in constructing proofs and testing hypotheses K U10 Student is able to organize his own work and can work in a team K K01 Student understands the significance of the scientific method in problem solving K_K02 Student participates in discussion and is open to share his/her knowledge with other students

		K_K03 Student understands		
		the need for continuous		
		training and professional		
		development		
		K_K04 Student on the basis of		
		creative analysis of new		
		situations and problems		
		independently student		
		formulates proposals for their		
		solution		
		K_K05 Student is open to new		
		ideas and willing to change		
		opinion in the light of		
		available data		
		K_K06 Student finds solutions		
		to problems on forums and		
		discussion groups and can		
		provide information on how to		
		solve standard difficulties that		
		arise during work		
Course module II Project Module	Excellence Initiative	K_W09 Student has	project work	graded credit
	- Research	systematized and detailed		presentation of the
	University Project A	knowledge about research		project outcomes
	Excellence Initiative	practices, used logic and		
	- Research	making conclusions		
	University Project	K_U01 Student is capable of		
	В	verify hypotheses		
Course module III Optional Subjects Module	Optional Subjects	K_W01 Student knows in-	Classical lecture	graded credit
		depth level the terminology of	practical	-test
The module contains subjects that are within		Cognitive Science in English	experimental	-presentation of a
the thematic area that enables the student to		K_W02 Student has an	laboratory	paper
achieve the expected learning outcomes		advanced knowledge about the	classic problem-solving	-scientific essay
specified in the table. However, the list of		syntax of presented	observation	Quiz
optional subjects can be modified in each		programming languages	panel	
academic year.		K_W03 Student understands	field measurement	
		the most important algorithms	presentation of a paper	
		and methods used in given	case study	

(Student chooses 9 from the optional courses, e.g. Running a reproducible research project, Bioethics, Development of Social Knowledge, Digital Humanism, Interpersonal skillstraining, Philosophy of CS, Reasoning on knowledge, normsand actions, Computational neuroscience, Cognitive logic, Advances in logic for cognitive science, Deep Science and Humanities, Social Media andText Analytics, Formal models ofmind and action, (Biological) signal processing, Gender, Brain, Cognition. CriticalAnalysis of Neuroscience, Social Media andText Analytics, Computer assisted qualitative data).	subject K_W04 Student has advanced and extensive knowledge of Python features K_W05 Student knows indepth level the research methods and argumentative strategies appropriate for one of the major subdisciplines of cognitive sciences K_W06 Student knows different approaches to computational modeling K_W07 Student has systematized and detailed knowledge of computational tools K_W08 Student is familiar with theorems and laws of selected fields K_W09 Student has systematized and detailed knowledge about research practices, used logic and making conclusions K_W10 Student is familiar with the notions used in given subjects K_W11 Student understands the physiology of neural system K_U01 Student is capable of verify hypotheses K_U02 Student is able to use advanced Python features to	
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	1	T		
		the need for continuous		
		training and professional		
		development		
		K_K04 Student on the basis of		
		creative analysis of new		
		situations and problems		
		independently student		
		formulates proposals for their		
		solution		
		K_K05 Student is open to new		
		ideas and willing to change		
		opinion in the light of		
		available data		
		K_K06 Student finds solutions		
		to problems on forums and		
		discussion groups and can		
		provide information on how to		
		solve standard difficulties that		
		arise during work		
Elective course module, e.g.,	university-wide	K_K05 Student is open to new	Classical lecture	graded credit
university-wide courses or	course	ideas and willing to change	Tutorial	
courses included in another field of study		opinion in the light of	Laboratory	
that are unrelated to a specific field of		available data		
study				
Foreign language classes	English B2+	K_U11 The student is able to	drama	Detailed methods
	g	use English language in the	staging	and assessment
		field of science and scientific	display	criteria applicable to
		disciplines relevant to the	practical	individual teachers
		studied field of study, in	r-m	will be presented at
				-
		requirements specified for the		
		_		Exam - U01. U03
				Oral exam - U02
				Urai exam - 002
				Colloquium - U01,
		accordance with the requirements specified for the B2 + level of the European System for the Description of Languages		the beginning of a given stage of learning. Exam - U01, U03

***	diploma examination	Master Seminar	K_W05 Student knows indepth level the research methods and argumentative strategies appropriate for one of the major subdisciplines of cognitive sciences K_U08 Student selects argumentative strategies, formulates responses to criticism K_K01 Student understands the significance of the scientific method in problem solving	seminar	graded credit -presentation of a paper Exam Master thesis
D 4 6 4 1			Internships**		
Duration of internships Form of internships			Not applie	cable	
Rules of internships					
rules of internships					
		Detailed	allocation of ECTS credits		
Academic or artistic disc	ciplines, to which learnin	g outcomes refer:			
Academic or artistic dis	ciplines, to which learnin		cademic discipline	ECTS credits	
Academic or artistic dis		Artistic or a	-	number	0%
Academic or artistic disc			-	number 68	% 57 %
1. 2.		Artistic or a	-	number 68 12	
1.	Social Communicat Psychology Informatics	Artistic or a	-	number 68	57 %
1. 2.	Social Communicate Psychology	Artistic or a	-	number 68 12	57 % 10%
1. 2. 3.	Social Communicat Psychology Informatics	Artistic or a	-	number 68 12 12	57 % 10% 10%

Course modules	Course No of ECTS credits		No of ECTS credits in the discipline: (enter names of disciplines)****				No of ECTS credits for elective courses	No of ECTS credits obtained by the student in classes conducted with direct contact with the teacher or tutor	No of ECTS credits obtained by the student as a result of: courses related to academic activity within a discipline or disciplines, to which the field of study is assigned *****/ courses focused on training practical skills *****		
			Social Comm unicati on and Media Scienc es	Psycho logy	Inform atics	Math emati cs	Life Scien ces	Philos ophy	No of ECTS	No of ECTS classes cond	No of ECTS courses rela discipline or study is ass train
Course module I Obligatory General Module	Advanced statistics	4				4			0	2	2
	Linear algebra - an introduction to data analysis	4				4			0	2	2
	Cognitive Psychology	4		4					0	2	2
	R Course	4			4				0	2	4
	Developmental Neuropsychology	4					4		0	2	2
	Network Neuroscience	4					4		0	2	2
	Theory of computation	4				4			0	2	2

	Basic introduction to programming with Matlab and Octave	4		4	0	2	2
	Artificial Neural Networks	4	4		0	2	4
	Advanced Programming	4		4	0	2	4
	Machine learning	4	4		0	2	4
	Eye tracking in Cognitive Science	4	4		0	2	4
Course module II Project Module	Excellence Initiative – Research University Project A	4	4		4	3	4
	Excellence Initiative – Research University Project B	4	4		4	3	4
Course module III Optional Subjects Module	optional subjects	36		36	36	18	18
(Student chooses the optional courses to collect minimum 36 ECTS)							

Elective course module, e.g., university-wide courses or courses included in another field of study that are unrelated to a specific field of study	university-wide course	8	8						8	4	0
Foreign language classes	English B2+	3	3						0	3	0
Diploma project and/or diploma examination ***	Master Seminar	17	17						0	10	10
IN TOTAL:		120	68/ 57%	12/	12/	12/	12/ 10%	3%	52/43 %	65/54%	70/58,8 %

^{*} the description of a course sylabus is attached to the study programme

This study programme is effective as of winter semester of the academic year 2023/2024.