



## Teaching Guide

Teaching Guide				
Identifying Data				2023/24
Subject (*)	Computational Aspects of Cognitive Science		Code	614544006
Study programme	Máster Universitario en Intelixencia Artificial			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	1st four-month period	Second	Optional	3
Language	English			
Teaching method	Face-to-face			
Prerequisites				
Department	Ciencias da Computación e Tecnoloxías da Información			
Coordinador	Pazos Sierra, Alejandro	E-mail	alejandro.pazos@udc.es	
Lecturers	Pazos Sierra, Alejandro	E-mail	alejandro.pazos@udc.es	
Web				
General description				

## Study programme competences / results

Code	Study programme competences / results
A6	CE05 - Ability to design and develop intelligent systems through the application of inference algorithms, knowledge representation and automated planning
A7	CE06 - Ability to recognise those problems that require a distributed architecture, not predetermined during the system design, suitable for the implementation of multiagent systems
A8	CE07 - Ability to understand the consequences of the development of an explainable and interpretable intelligent system
A9	CE08 - Ability to design and develop secure intelligent systems, in terms of integrity, confidentiality and robustness
B1	CG01 - Maintaining and extending theoretical foundations to allow the introduction and exploitation of new and advanced technologies in the field of AI
B2	CG02 - Successfully addressing each and every stage of an AI project
B3	CG03 - Searching and selecting that useful information required to solve complex problems, with a confident handling of bibliographical sources in the field
B6	CB01 - Acquiring and understanding knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, frequently in a research context
B7	CB02 - The students will be able to apply the acquired knowledge and to use their capacity of solving problems in new or poorly explored environments inside wider (or multidisciplinary) contexts related to their field of study
B8	CB03 - The students will be able to integrate different pieces of knowledge, to face the complexity of formulating opinions (from information that may be incomplete or limited) and to include considerations about social and ethical responsibilities linked to the application of their knowledge and opinions
B9	CB04 - The students will be able to communicate their conclusions, their premises and their ultimate justifications, both to specialised and non-specialised audiences, using a clear style language, free from ambiguities
C2	CT02 - Command in understanding and expression, both in oral and written forms, of a foreign language
C3	CT03 - Use of the basic tools of Information and Communications Technology (ICT) required for the student's professional practice and learning along her life
C4	CT04 - Acquiring a personal development for practicing a citizenship under observation of the democratic culture, the human rights and the gender perspective
C5	CT05 - Understanding the importance of the entrepreneurial culture and knowledge of the resources within the entrepreneur person's means
C6	CT06 - Acquiring abilities for life and healthy customs, routines and life styles
C7	CT07 - Developing the ability to work in interdisciplinary or cross-disciplinary teams to provide proposal that contribute to a sustainable environmental, economic, political and social development
C8	CT08 - Appreciating the importance of research, innovation and technological development in the socioeconomic and cultural progress of society



Learning outcomes			
Learning outcomes	Study programme competences / results		
Knowing the computational models of human mind	AC5 AC6 AC7 AC8	BC1 BC2 BC3 BC6 BC7 BC8 BC9	CC2 CC3 CC4 CC5 CC6 CC7 CC8
Distinguishing the basic processes associated to human intelligence	AC5 AC6 AC7 AC8	BC1 BC2 BC3 BC6 BC7 BC8 BC9	CC2 CC3 CC4 CC5 CC6 CC8
Knowing the main computational approaches to social cognition	AC5 AC6 AC7 AC8	BC1 BC2 BC3 BC6 BC7 BC8 BC9	CC2 CC3 CC4 CC5 CC6 CC7 CC8

Contents	
Topic	Sub-topic

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student's personal work hours	Total hours
ICT practicals	A6 A7 A9 B2 B7 B8 C3 C4 C5 C6	8	8	16
Seminar	B1 B9 C2 C7 C8	5	5	10
Objective test	A6 A7 A8 A9 B1 B2 B3 B6 B7 B8 B9 C2 C3 C4 C5 C6 C7 C8	1	15	16
Guest lecture / keynote speech	A8 B3 B6 C2	12	20	32
Personalized attention		1	0	1

(\*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
Methodologies	Description
ICT practicals	



Seminar	
Objective test	
Guest lecture / keynote speech	

Personalized attention	
Methodologies	Description
Objective test Seminar ICT practicals Guest lecture / keynote speech	

Assessment			
Methodologies	Competencies / Results	Description	Qualification
Objective test	A6 A7 A8 A9 B1 B2 B3 B6 B7 B8 B9 C2 C3 C4 C5 C6 C7 C8		30
Seminar	B1 B9 C2 C7 C8		10
ICT practicals	A6 A7 A9 B2 B7 B8 C3 C4 C5 C6		60

Assessment comments

Sources of information	
Basic	
Complementary	

Recommendations
Subjects that it is recommended to have taken before
Subjects that are recommended to be taken simultaneously
Subjects that continue the syllabus
Other comments

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.