

		Teaching	Guide		
	Identifying	Data			2024/25
Subject (*)	Emergent Aspects and Entrepreneu	urship in Al		Code	614544027
Study programme	Máster Universitario en Intelixencia Artificial			'	
	·	Descrip	tors		
Cycle	Period	Yea	r	Туре	Credits
Official Master's Degre	ee 1st four-month period	Secor	nd	Optional	3
Language	English				
Teaching method	Face-to-face				
Prerequisites					
Department	Ciencias da Computación e Tecnol	oxías da Inforn	nación		
Coordinador	Pazos Sierra, Alejandro		E-mail	alejandro.pazo	s@udc.es
Lecturers	Pazos Sierra, Alejandro		E-mail	alejandro.pazo	s@udc.es
Web		'			
General description					
	-				

	Study programme competences / results
Code	Study programme competences / results
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
A10	CE09 - Ability to obtain a deep knowledge about fundamental principles and models of quantum computing and to apply them for the
	interpretation, selection, evaluation, modelling and creation of new concepts, theories, uses and technological developments related to
	Artificial Intelligence
A14	CE13 - Knowledge of computer tools in the field of data analysis and statistical modelling and ability to select those ones most suitable for
	problem solving
A15	CE14 - Understanding and command of the main machine learning techniques, including those devised for big volumes of data.
	Understanding and command of basic concepts and techniques for information search and filtering in big collections of data.
A16	CE15 - Knowledge of computer tools in the field of machine learning and ability to select those ones most suitable for problem solving
A20	CE19 - Knowledge of the different environments where AI based technologies can be applied and awareness of their capability to provide
	a differentiating added value
A21	CE20 - Ability to combine and adapt different techniques, extrapolating knowledge among different application domains
A22	CE21 - Knowledge of the techniques that facilitate the efficient organisation and management of AI projects in real environments, including
	resources management and tasks scheduling and taking into account the concepts of knowledge dissemination and open science
A23	CE22 - Knowledge of the techniques that facilitate the security of data, applications and communications and the derived consequences
	on different application domains in Al
A28	CE27 - Understanding the significance of the entrepreneurial culture and knowledge of the resources within the enterpreneur person's
	means
A29	CE28 - Appropriate knowledge of the concept of enterprise, its organisation and management, and of the different business sectors, with
	the goal of providing solutions from the AI perspective
A30	CE29 - Being able to apply knowledge, abilities and attitudes to the business and professional world, by planning, managing and
	evaluating projects in the scope of Al
A31	CE30 - Being able to set out, model and solve problems that require the application of AI methods, techniques and technologies
B1	CG01 - Maintaining and extending theoretical foundations to allow the introduction and exploitation of new and advanced technologies in
	the field of Al
B2	CG02 - Successfully addressing each and every stage of an Al project
B5	CG05 - Working in teams, especially of multidisciplinary nature, and being skilled in the management of time, people and decision making
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
В7	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



В9	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
B10	CB05 - The students will acquire learning abilities to allow them to continue studying in way that will mostly be self-directed or autonomous
C2	CT02 - Command in understanding and expression, both in oral and written forms, of a foreign language
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

Learning outcomes			
Learning outcomes	Study	y progra	amme
	con	npetenc	es/
	results		
Understanding the importance of innovation as a key factor for success to create value, growth and sustainability	AC7	BC1	CC2
	AC8	BC2	CC4
	AC9	BC5	CC5
	AC13	BC6	CC
	AC14	BC7	
	AC15	BC9	
	AC19	BC10	
	AC20		
	AC21		
	AC22		
	AC27		
	AC28		
	AC29		
	AC30		
nowing the tools and experiences needed to create new businesses	AC7	BC1	CC
	AC8	BC2	СС
	AC9	BC5	CC
	AC13	BC6	CC
	AC14	BC7	
	AC15	BC9	
	AC19	BC10	
	AC20		
	AC21		
	AC22		
	AC27		
	AC28		
	AC29		
	AC30		

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Understanding the entrepreuneurial culture and its impact in society	AC7	BC1	CC2
	AC8	BC2	CC4
	AC9	BC5	CC5
	AC13	BC6	CC6
	AC14	BC7	
	AC15	BC9	
	AC19	BC10	
	AC20		
	AC21		
	AC27		
	AC28		
	AC29		
	AC30		
Assessing the financial-economic viability of a new business project	AC7	BC1	CC2
	AC8	BC2	CC4
	AC9	BC5	CC5
	AC13	BC6	CC6
	AC14	BC7	
	AC15	BC9	
	AC19	BC10	
	AC20		
	AC21		
	AC22 AC27		
	AC27		
	AC29		
	AC30		
Knowing the available funding opportunities	AC30	BC1	CC2
Knowing the available furfuling opportunities	AC7	BC2	CC4
	AC9	BC5	CC5
	AC13	BC6	CC6
	AC14	BC7	000
	AC15	BC9	
	AC19	BC10	
	AC20	2010	
	AC21		
	AC22		
	AC27		
	AC28		
	AC29		
	AC30		
	AC30		

Knowing how to apply innovation models depending on the market conditions	AC7	BC1	CC2
	AC8	BC2	CC4
	AC9	BC5	CC5
	AC13	BC6	CC6
	AC14	BC7	
	AC15	BC9	
	AC19	BC10	
	AC20		
	AC21		
	AC22		
	AC27		
	AC28		
	AC29		
	AC30		
Knowing and assessing the technological solutions based on AI with a highest innovation potential	AC7	BC1	CC2
	AC8	BC2	CC4
	AC9	BC5	CC5
	AC13	BC6	CC6
	AC14	BC7	
	AC15	BC9	
	AC19	BC10	
	AC20		
	AC21		
	AC22		
	AC27		
	AC28		
	AC29		
	AC30		

Contents			
Topic	Sub-topic		
Aspectos básicos de la innovación y del emprendimiento	Aspectos básicos de la innovación y del emprendimiento		
Viabilidad de un proyecto	Viabilidad de un proyecto		
Modelo y plan de negocio	Modelo y plan de negocio		
Metodologías ágiles de gestión de proyectos	Metodologías ágiles de gestión de proyectos		
Modelos de innovación y su aplicación (intraemprendimiento,	Modelos de innovación y su aplicación (intraemprendimiento, Open Innovation,		
Open Innovation, Closed Innovation)	Closed Innovation)		
Tendencias tecnológicas emergentes (inteligencia artificial	Tendencias tecnológicas emergentes (inteligencia artificial cuántica, AutoML,) y		
cuántica, AutoML,) y cómo pueden influir y crear nuevos	cómo pueden influir y crear nuevos mercados		
mercados			

Planning					
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours	
	Results	(in-person & virtual)	work hours		
Guest lecture / keynote speech	A8 A10 A14 A16 A22	12	12	24	
	A23 A28 B6 B10				
ICT practicals	A9 A21 A31 A30 B2	8	16	24	
	B5 B7 B9				

Objective test	A8 A9 A10 A14 A15	1	15	16
	A16 A20 A21 A22			
	A23 A28 A29 A31			
	A30 B1 B2 B5 B6 B7			
	B9 B10			
Seminar	A8 A10 A15 A20 A29	5	5	10
	B1 C2 C4 C5 C6			
Personalized attention		1	0	1
(*)The information in the planning tabl	e is for guidance only and does not tal	ke into account the h	neterogeneity of the st	udents.

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

Personalized attention			
Methodologies	Description		
Seminar	Se resolverán las dudas surgidas en la teoría y en la práctica. Se resolverán preferentemente en el horario asignado para las		
Guest lecture /	clases o en las horas establecidas para tutorías.		
keynote speech			
ICT practicals			
Objective test			

Assessment				
Methodologies	Competencies / Description		Qualification	
	Results			
Seminar	A8 A10 A15 A20 A29	Realización y exposición de trabajos tutelados	20	
	B1 C2 C4 C5 C6			
ICT practicals	A9 A21 A31 A30 B2	Realización de trabajos prácticos sobre los contenidos de la asignatura	50	
	B5 B7 B9			
Objective test	A8 A9 A10 A14 A15	Realización de una prueba final para comprobar los conocimientos adquiridos durante	30	
	A16 A20 A21 A22	el curso		
	A23 A28 A29 A31			
	A30 B1 B2 B5 B6 B7			
	B9 B10			

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.