

		Teaching Guide			
Identifying Data			2018/19		
Subject (*)	Projects Workshop			Code	614473109
Study programme	Mestrado Universitario en Comp	utación de Altas Prestació	óns / High	Performance Compu	ting (Mod. Presencial 2018)
		Descriptors			
Cycle	Period	Year		Туре	Credits
Official Master's Degre	e 2nd four-month period	First	First Obligatory		3
Language	Spanish				
Teaching method	Face-to-face				
Prerequisites					
Department	Enxeñaría de Computadores				
Coordinador	Gonzalez Gomez, Patricia E-mail patricia.gonzalez@udc.es				
Lecturers	Gonzalez Gomez, Patricia E-mail patricia.gonzalez@udc.es		z@udc.es		
	López Taboada, Guillermo			guillermo.lopez.taboada@udc.es	
	Sanjurjo Amado, Jose Rodrigo			jose.sanjurjo@u	dc.es
Web	aula.cesga.es				
General description	The aim of this course is to provi	de the student with the fur	ndamental	bases to carry out s	uccessfully a research or
	industrial project in the area of h	igh performance computin	ng. Differer	nt tools are introduced	d to facilitate the developing of th
	project as well as different exam	ples of projects.			

	Study programme competences
Code	Study programme competences
A8	CE8 - Be able to apply the acquired knowledge, capabilities and aptitudes to the profesional environment, planning, managing and
	evaluating project in the high performance computing field
B1	CB6 - Possess and understand the knowledge that give a baseline or opportunity to be original in the development and/or application of
	ideas, often in a research environment
B3	CB8 - The students have to be able to integrate knowledge and face the complexity to make judgments from information, despite being
	partial and limited, includes reflexions about the social and ethical responsabilities linked to the application of their judgements and
	knowledge
B5	CB10 - The students have to possess learning skills that allows them to continue to study in a mainly self-driven or autonomous manner
B6	CG1 - Be able to search and select useful information to solve complex problems, using the bibliographic sources of the field
B7	CG2 - Elaborate adqueately and originally written essays or motivated reasonings, write planings, work projects, scientific papers and
	formulate reasonable hypothesis
B9	CG4 - Be able to plan and do research, development and innovation tasks in high performance computing related environments
B10	CG5 - Be able to work in teams, specially multidisciplinary, and do a proper time and people management and decision taking
C1	CT1 - Use the basic technologies of the information and computing technology field required for the professional development and the
	long-life learning
C2	CT2 - Estimulate the capacity to work in transdisciplinary and interdisciplinary teams to offer proposals that contribute to the contribute to
	the economical, social and political sustainable development
C3	CT3 - Be able to manage time and resources: develop plannings, priorize activities, identify criticism, establish and meet deadlines
C4	CT4 - Value the importance of research, innovation and the technological development in the socioeconomical and cultural advance of the
	society
C5	CT5 - Understand the importance of the enterpeneurship culture and know the resources available for entrepeneurs

Learning outcomes	
Learning outcomes	Study programme
	competences



The student will know the fundamental bases to carry out successfully a research or industrial project in the area of high	AJ8	BJ1	CJ1
performance computing		BJ3	CJ2
		BJ5	CJ3
		BJ6	CJ4
		BJ7	CJ5
		BJ9	
		BJ10	
The student will know different tools that facilitate the development of both research and industrial projects	AJ8	BJ7	CJ1
		BJ10	CJ2
			CJ3

	Contents
Торіс	Sub-topic
HPC Research projects	
Results' dissemination. Bibliographic studies.	
Colaborative tools	
Management of HPC projects	
Industrial Workshops	
HPC business	

	Planning	I		
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Supervised projects	A8 B3 B5 B6 B7 B9	1	54	55
	B10 C3 C1			
Seminar	B1 B3 B5 C2 C4 C5	8	0	8
Guest lecture / keynote speech	A8 B1 B3 B5 C2 C4	11	0	11
	C5			
Personalized attention		1	0	1
(*)The information in the planning table is fo	r guidance only and does not	take into account the	heterogeneity of the stud	lents.

	Methodologies
Methodologies	Description
Supervised projects	supervised projects performed individually or in group.
Seminar	Talks and workshops given by relevant professionals in the field of research in HPC or in the industry.
Guest lecture /	Lectures by the faculty assigned to the subject.
keynote speech	

	Personalized attention
Methodologies	Description
Guest lecture /	The faculty will give the lectures and will attend the doubts that may arise on the part of the students.
keynote speech	
Supervised projects	During the supervised projects, the teachers will monitor the student's work.

		Assessment	
Methodologies	Competencies	Description	Qualification
Guest lecture /	A8 B1 B3 B5 C2 C4	During the face-to-face classes, the teachers will monitor the active participation of the	30
keynote speech	C5	students.	



Supervised projects

A8 B3 B5 B6 B7 B9 B10 C3 C1

Assessment comments

First opportunity (ordinary - May):- Evaluation of the academically directed works: 70% of the final mark- Follow-up continued active participation: 30% of the final markSecond opportunity (extraordinary - July):- Evaluation of the academically directed works: it will be necessary to present the academically directed works that the students have not presented in the ordinary call, and will go back to present, after the timely modifications indicated by the professors, those that had not received a necessary minimum qualification to pass. 70% of the final mark- Follow-up continued active participation: the student will keep the mark obtained in this section in the ordinary call, since for the extraordinary call no new activities will be scheduled. 30% of the final markit will consider "no sited" all the student that have not delivered any of the works and have not participated in the proposed activities.

Part-time: given that the degree has a on-line modality, in the case of students who, in a justified way, have impediments to attendance in person, they will be evaluated with the criteria of the on-line modality.

During the evaluation, the lecturers can request the students to identify themselves by asking the passport.

	Sources of information
Basic	- A. H. Hofmann (). Scientific writing and communication. Oxford University Press
	- Eric Ries (). The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically
	Successful Businesses. Crown Publishing Group
	- Alexander Osterwalder and Yves Pigneur (). Business Model Generation. John Wiley and Sons
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	

Knowledge of English, both spoken and written, is essential since many of the bibliography and external conferences can be in English.

(*)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.