



## Teaching Guide

Identifying Data					2023/24
<b>Subject (*)</b>	Projects Workshop	<b>Code</b>	614973109		
<b>Study programme</b>	Mestrado Universitario en Computación de Altas Prestacións / High Performance Computing (Mod. Virtual)				
Descriptors					
<b>Cycle</b>	<b>Period</b>	<b>Year</b>	<b>Type</b>	<b>Credits</b>	
Official Master's Degree	2nd four-month period	First	Obligatory	3	
<b>Language</b>	Spanish				
<b>Teaching method</b>	Non-attendance				
<b>Prerequisites</b>					
<b>Department</b>	Departamento profesorado másterEnxeñaría de Computadores				
<b>Coordinador</b>	Gonzalez Gomez, Patricia	<b>E-mail</b>	patricia.gonzalez@udc.es		
<b>Lecturers</b>	Gonzalez Gomez, Patricia López Taboada, Guillermo Sanjurjo Amado, Jose Rodrigo	<b>E-mail</b>	patricia.gonzalez@udc.es guillermo.lopez.taboada@udc.es jose.sanjurjo@udc.es		
<b>Web</b>	aula.cesga.es				
<b>General description</b>	The aim of this course is to provide the student with the fundamental bases to carry out successfully a research or industrial project in the area of high performance computing. Different tools are introduced to facilitate the developing of the project as well as different examples 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 responsibilities 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, prioritize 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 entrepreneurs

## 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 performance computing	AJ8	BJ1 BJ3 BJ5 BJ6 BJ7 BJ9 BJ10	CJ1 CJ2 CJ3 CJ4 CJ5
The student will know different tools that facilitate the development of both research and industrial projects	AJ8	BJ7 BJ10	CJ1 CJ2 CJ3

Contents	
Topic	Sub-topic
Module I: Research Projects	1. State of the art of a research line 2. Bibliographic studies 3. Results' dissemination 4. Writing of technical documents 5. Presentation of technical works 6. Research funding
Module II: Industry Projects	1. Management of industry projects 2. Industrial Workshops
Module III: Entrepreneurship Projects	1. Entrepreneurship tools 2. Entrepreneurship Workshops

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Supervised projects	A8 B3 B5 B6 B7 B9 B10 C1 C3	1	54	55
Seminar	B1 B3 B5 C2 C4 C5	8	0	8
Document analysis	A8 B1 B3 B5 C2 C4 C5	11	0	11
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
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.
Document analysis	Instruction programmed through teaching materials.

Personalized attention	
Methodologies	Description
Supervised projects Document analysis	The faculty will attend to any doubts that may arise from the students in the study using the teaching materials for the on-line modality.

Assessment
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Methodologies	Competencies	Description	Qualification
Supervised projects	A8 B3 B5 B6 B7 B9 B10 C1 C3	Submission and defense of academically supervised projects.	90
Document analysis	A8 B1 B3 B5 C2 C4 C5	During the course, the teachers will monitor the active participation of the students.	10

### Assessment comments

First opportunity (ordinary - May):- Evaluation of the academically directed works: 90% of the final mark· Follow-up continued active participation: 10% of the final mark  
Second 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. 90% 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. 10% of the final mark  
it will consider "no sited" all the student that have not delivered any of the works and have not participated in the proposed activities.  
During the evaluation, the lecturers can request the students to identify themselves by asking the passport.

### Sources of information

<b>Basic</b>	<ul style="list-style-type: none"> <li>- Alexander Osterwalder and Yves Pigneur (). Business Model Generation. John Wiley and Sons</li> <li>- Eric Ries (). The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses. Crown Publishing Group</li> <li>- A. H. Hofmann (). Scientific writing and communication. Oxford University Press</li> </ul>
<b>Complementary</b>	

### 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

&lt;p&gt;- Knowledge of English, both spoken and written, is essential since many of the bibliography and external conferences can be in English.-According to the different regulations applicable to university teaching, the gender perspective must be incorporated in this subject: non-sexist language will be used, bibliography of authors of both sexes will be used, the intervention of male and female students in class will be encouraged, work will be done to identify and modify sexist prejudices and attitudes, and the environment will be influenced to modify them and promote values of respect and equality. If situations of gender discrimination are detected, actions and measures to correct them will be proposed.&lt;/p&gt;

(\*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.