



Teaching Guide

Identifying Data				2014/15
Subject (*)	Xestión de Proxectos	Code	614G01203	
Study programme	Grao en Enxeñaría Informática			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	1st four-month period	Curso adap. Enx. Téc. Informática	Obligatoria	6
Language				
Prerequisites				
Department	MatemáticasTecnoloxías da Información e as Comunicaciós			
Coordinator	Hernandez Almaraz, Joaquin	E-mail	joaquin.hernandeza@udc.es	
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Web				
General description				

Study programme competences

Code	Study programme competences
A1	Capacidade para a resolución dos problemas matemáticos que se poden presentar na enxeñaría. Aptitude para aplicar os coñecementos sobre: álgebra linear; cálculo diferencial e integral; métodos numéricos; algorítmica numérica; estatística e optimización.
A8	Capacidade para planificar, concibir, despregar e dirixir proxectos, servizos e sistemas informáticos en todos os ámbitos, liderando a súa posta en marcha e a súa mellora continua e valorando o seu impacto económico e social.
A29	Capacidade de identificar, avaliar e xestionar os riscos potencias asociados que se puideren presentar.
A46	Capacidade de integrar solucións de tecnoloxías da información e as comunicacións e procesos empresariais para satisfacer as necesidades de información das organizacións, permitíndolles alcanzar os seus obxectivos de forma efectiva e eficiente, e dándolles así vantaxes competitivas.
A49	Capacidade para comprender e aplicar os principios e as prácticas das organizacións, de forma que poidan exercer como enlace entre as comunidades técnica e de xestión dunha organización, e participar activamente na formación dos usuarios.
A50	Capacidade para comprender e aplicar os principios da avaliación de riscos e aplicalos correctamente na elaboración e execución de plans de actuación.
A52	Capacidade para comprender o contorno dunha organización e as súas necesidades no ámbito das tecnoloxías da información e as comunicacións.
A56	Capacidade para seleccionar, despregar, integrar e xestionar sistemas de información que satisfagan as necesidades da organización, cos criterios de custo e calidade identificados.
B1	Capacidade de resolución de problemas
B2	Traballo en equipo
B3	Capacidade de análise e síntese
B4	Capacidade para organizar e planificar
B5	Habilidades de xestión da información
B6	Toma de decisións
B7	Preocupación pola calidade
B8	Capacidade de traballar nun equipo interdisciplinar
B9	Capacidade para xerar novas ideas (creatividade)
C1	Expresarse correctamente, tanto de forma oral coma escrita, nas linguas oficiais da comunidade autónoma.
C3	Utilizar as ferramentas básicas das tecnoloxías da información e as comunicacións (TIC) necesarias para o exercicio da súa profesión e para a aprendizaxe ao longo da súa vida.
C4	Desenvolverse para o exercicio dunha cidadanía aberta, culta, crítica, comprometida, democrática e solidaria, capaz de analizar a realidade, diagnosticar problemas, formular e implantar solucións baseadas no coñecemento e orientadas ao ben común.



C6	Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.
C7	Asumir como profesional e cidadán a importancia da aprendizaxe ao longo da vida.

Learning outcomes			
Subject competencies (Learning outcomes)	Study programme competences		
Know realise the planning of a project, the management of his resources and his risks, as well as the follow-up of the same.	A8 A29 A49 A50	B1 B2 B3 B4 B5 B6 B7 B8	C1 C3 C4 C6 C7
Know technicians of modelado and optimisation of projects, determination of the critical way, nivelación and allocation of resources.	A1 A8 A49	B1 B2 B3 B4 B5 B6 B7 B8	C1 C3 C4 C6 C7
Saber utilizar ferramentas de apoio á planificación e xestión de proxectos.	A46 A52 A56	B1 B2 B3 B4 B5 B6 B8 B9	C3 C4 C6 C7

Contents	
Topic	Sub-topic
Teoría	Subject 1. Models of linear programming and applications Subject 2. Whole linear programming Subject 3. Management of projects Subject 4. Planificacion Of Projects Subject 5. Management of risks
Práctica	Exercises of linear programming and whole Practice of linear programming and whole Practice of planning and follow-up of projects: Editorial of the Practical preliminary draft of planning and follow-up of projects: Realisation of the preliminary draft

Planning			
Methodologies / tests	Ordinary class hours	Student?s personal work hours	Total hours
Objective test	2	12	14
Guest lecture / keynote speech	21	42	63



Supervised projects	6	24	30
Laboratory practice	14	28	42
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
Objective test	Examination written to value the theoretical and practical knowledges purchased along the course.
Guest lecture / keynote speech	The method magistral will employ for the presentation of the theoretical knowledges related with the distinct subjects
Supervised projects	The autonomous work and in group tutelado allows to the students carry to the practice, through exercises and relative practices to projects proposed by them same, the knowledges purchased along the course. The autonomous work fundamentally allows to the students the development detailed of the practices and the knowledge and handle of the computer tools of support previously mentioned.
Laboratory practice	The classes of practices will devote to realise the practices and exercises linked to the temario exposed through the method magistral, handling computer tools of support

Personalized attention	
Methodologies	Description
Laboratory practice Guest lecture / keynote speech Supervised projects	It will combine the method expositivo magistral with the practices on computer, in which conjurará the autonomous work and in group tutelado. The method magistral will employ for the presentation of the theoretical knowledges related with the distinct subjects. The classes of practices will devote to realise the practices and exercises linked to the temario exposed through the method magistral, handling computer tools of support. The autonomous work and in group tutelado allows to the students carry to the practice, the knowledges purchased along the course. At all times it will boost the participation of the students.

Assessment		
Methodologies	Description	Qualification
Laboratory practice	Valorarase: - Memoria entregada da práctica. - Nivel técnico da práctica. - Completitud, claridade e xustificaciós da práctica. - Dominio dos coñecementos adquiridos. - Participación activa na práctica.	30
Objective test	Dominio dos coñecementos teóricos e prácticos da materia a través dun exame escrito individual. A parte teórica da proba supón o 40% desta.	70

Assessment comments



The aim of the evaluation is to ascertain that the students possess the necessary fundamental competitions and will realise in two temporary moments distinct:- Once finalised the practices, so much of of planning and follow-up of projects, as of linear programming and/or whole.- When finalising the course, by means of an examination written individual.The final note of each student will obtain according to the indicated to continuation:- Individual written examination: 70%.- Practical of planning and follow-up of projects: 20%.- Practical of linear programming and/or whole: 10%To approve the asignatura is precise to obtain a minimum global punctuation of 5 points on 10 and fulfil the following restrictions:- It is necessary to have a minimum of 4.5 points on 10 in the practice.- It is necessary to have a minimum of 4.5 points on 10 in the examination written individual.In case that it did not fulfil some minimum of the two previous, the note that will appear for the asignatura will be the one of the practice, if this was not approved, or the one of the examination in case that the practice yes had approved .Appearances to take into account:- The groups of students to realise the practices will form under the guidelines of the professors.- In the evaluation of the practice of planning and follow-up of projects will value the technical level of the work and the completitud, clarity and exhibition of the same.- The note assigned to the practice of planning and follow-up of projects initially will be the one who receive all the members of the group that defend it, without prejudice to modification in base to the individual active participation of each one.- In the practice of programacion linear and/or enterea, will value the capacity of modelar a situation of conflict in a project and resolve it, by means of the software recommended, as well as interpret of suitable way said solution.The students that do not surpass the asignatura will have to show the correct acquisition of the fundamental competitions of the same by means of the realisation of a new subject examination to the restrictions indicated previously. Besides, those students that have not surpassed the practice of planning and follow-up of projects will have to redo it until this fulfil with the minimum requirements demanded, being delivered for his evaluation by part of the professors and defence with deadline the day of the examination of the second opportunity.

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 asignatura has an essentially practical character, by which is fundamental that the students know to apply the theoretical knowledges learnt to the practice.

(*)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.