# Universida<sub>de</sub>Vigo

## Subject Guide 2017 / 2018

10					S	ubject Guide 2017 / 2018
	TIFYIN					
		d management				
Subj	ect	GIS and land management				
Code		V09G310V01701				
Stud		Degree in Mining	<u> </u>			
	ramme	and Energy				
		Resources				
Deer	rintoro	Engineering		Chassa	Veer	Quadraastar
Desc	riptors	ECTS Credits		Choose Mandatory	Year 4th	Quadmester 1st
Teac	hing	Spanish		Manuatory	401	150
	uage	English				
	artment					
	dinator					
Lect	urers	González Jorge, Higinio				
E-ma	.:.	Martínez Sánchez, Joaquín				
E-ma Web		http://faitic.uvigo.es/				
Gen		Geographic Information Systems				
	ription					
Com	petenci	es				
Code						
B1		c and technical training in order to was of consultancy, analysis, design, ca tion.				
B2 B3	enginee research undergr materia manufa attain in Capacity mechan storage	anding of the many technical and leg ring, according to section 5 of Order of n, mine exploitation of all types of geo ound stores, treatment and smelting is plants, carbon-chemical, petro-che cturing plants. In addition, the capaci- nproved efficiency while respecting the y to design, write and plan partial or so ical and electrical installations, toget facilities for solid, liquid and gaseous on rectoration blacting and evelocity	CIN7306/2009, ological resourc plants, energy mical and gas p ty to employ pro- he Environment specific projects her with their m materials, dum	which have to do w tes, including ground plants, mineral and plants, waste and eff oven methods and a and protecting the for the units descri- naintenance, energy	ith geological-m dwaters, underg iron and steel p fluent treatmen accredited tech health and safe ibed in the prev r transport netw	nineral prospecting and ground works, blants, construction t plants, and explosives nologies in order to ety of workers and users. ious section, such as orks, transport and
B4		on, restoration, blasting and explosiv / to design, plan, operate, inspect, sig		projects plants or i	installations wit	hin the field
B5		y to carry out land planning studies a				
B6		to maintain, conserve and exploit th	ne projects, plar	nts and installations	within the field	
B7	Knowlec Order C inspecti control s other m	lge required to undertake, within the N/306/2009, measurements, layouts, ons, studies and reports, work plans, systems, prevention systems, evaluat aterials, soil and solid rock characteri	scope of mining , plans and map environmental tion analyses of ization and othe	g engineering know os, calculations, valu and social impact s the properties of m er similar tasks.	ledge as establi uations, risk ana tudies, restorati netal, ceramic, r	shed in section 5 of Ilyses, expert ons plans, quality efractory, synthetic and
B8	Mining E	lge, understanding and capacity to a Engineer.			orking profession	onally as a Technical
		and land planning. Land and urban p to interrelate all the acquired knowl			ts in a bodv of k	nowledge with a clear
	structur	e and strong internal coherence.		•	-	
D3	Dronger			blo stratagics bass	d on theoretical	knowledge, for problem

- D4 Encourage work based on cooperation, communication skills, organization, planning and recognition of responsibility in a multilingual and multidisciplinary working environment that fosters education in equality, peace and respect for fundamental rights.
- D5 Know what sources are available for ongoing and continual updating of all the information required to undertake their work, with access to all the current and future tools for seeking information and adapting it in the light of technological and social changes.
- D7 Capacity to organise, interpret, assimilate, create and manage all the information needed to organise their work, handling the I.T., mathematical, physical and other tools required.

Learning outcomes			
Expected results from this subject	Tra	aining and Resul	
Relate and differentiate the distinct processes that have implications for the land.	B1 B2 B3 B4 B5 B6	C27	D1 D3 D4 D5 D7
Know and understand the distinct stages of the land planning process.	B7 B8 B1 B2	C27	D1 D3
	B3 B4 B5 B6 B7 B8		D4 D5 D7
Know and apply the various planning models.	B1 B2 B3 B4 B5 B6 B7 B8	C27	D1 D3 D4 D5 D7
Be able to undertake and use cartography for optimum location of uses and activities by means o GIS.	f B1 B2 B3 B4 B5 B6 B7 B8	C27	D1 D3 D4 D5 D7
Know the specific land use problems of particular special interest and mining areas.	B1 B2 B3 B4 B5 B6 B7 B8	C27	D1 D3 D4 D5 D7
Acquire a basic knowledge of land use planning norms.	B1 B2 B3 B4 B5 B6 B7 B8	C27	D1 D3 D4 D5 D7
Contents			
Торіс			
Concept of land management. The need of the land management.			
Legal and institutional frame of the land management			

Planning						
	Class hours	Hours outside the classroom	Total hours			
Master Session	27.5	50	77.5			
Troubleshooting and / or exercises	25	47.5	72.5			

Iroubleshooting and / or exercises2547.572.5\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies			
	Description		
Master Session	Theoretical session in class		
Troubleshooting and / or Resolution of problems			
exercises			

Personalized attention			
Methodologies	Description		
Master Session	Telematic attention and tutorials		
Troubleshooting and / or exercises	Telematic attention and tutorials		

Assessment						
	Description	on Qualification				
			Lea	Learning Results		
Master Session	Theoretical exam. Results of learning: Relate and differentiate the distinct processes that have implications for the land. Know and understand the distinct stages of the land planning process. Know and apply the various planning models. Be able to undertake and use cartography for optimum location of uses and activities by means of GIS Know the specific land use problems of particular special interest and mining areas.	50	B1 B2 B3 B4 B5 B6 B7 B8	C27	D1 D3 D4 D5 D7	
Troubleshooting and / or exercises	Acquire a basic knowledge of land use planning norms. Practical exam. Results of learning: Relate and differentiate the distinct processes that have implications for the land. Know and understand the distinct stages of the land planning process. Know and apply the various planning models. Be able to undertake and use cartography for optimum location of uses and activities by means of GIS Know the specific land use problems of particular special interest and mining areas. Acquire a basic knowledge of land use planning norms.	50	B1 B2 B3 B4 B5 B6 B7 B8	C27	D1 D3 D4 D5 D7	

# Other comments on the Evaluation

Assessment:

Written exam that integrates theoretical and practical contents.

In the extraordinary announcement will apply the same system of evaluation that in the ordinary announcement.

Exams dates:

First period: 19/12/2017

Extra period: 25/06/2018

Final: 08/09/2017

More information:

http://minasyenergia.uvigo.es/es/docencia/examenes

# Sources of information

Basic Bibliography Bolstad, P., GIS Fundamentals, 5, Eider Press, 2008

Garrard, C., Geoprocessing with Python, 1, Manning, 2016 Bahgat, K., Python Geospatial Development Essentials, 1, Packt Publishing, 2105 Complementary Bibliography

#### Recommendations

## Subjects that it is recommended to have taken before

Geomatics/V09G310V01401 Thematic cartography and remote sensing/V09G310V01514 Construction management and on-site layout/V09G310V01601