GUÍA DOCENTE ABREVIADA DE LA ASIGNATURA

M810 - Construction and Procurement IV/Construcción y Contratación IV

Máster Universitario en Investigación, Tecnología y Gestión de la Construcción en Europa - Master in Construction Research, Technology and Management in Europe

Curso Académico 2016-2017

1. DATOS IDENTIFICATIVOS					
Título/s	Máster Universitario en Investigación, Tecnología y Gestión de la Construcción en Europa - Master in Construction Research,			Tipología y Curso	Obligatoria. Curso 1
Centro	Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos				
Módulo / materia	MÓDULO CONSTRUCCIÓN Y CONTRATACIÓN				
Código y denominación	M810 - Construction and Procurement IV/Construcción y Contratación IV				
Créditos ECTS	2	Cuatrimestre	Otros		
Web					
Idioma de impartición	Inglés	English friendly	No	Forma de	Presencial

Departamento	DPTO. TRANSPORTES Y TECNOLOGIA DE PROYECTOS Y PROCESOS
Profesor responsable	DANIEL CASTRO FRESNO
E-mail	daniel.castro@unican.es
Número despacho	E.T.S. Ingenieros de Caminos, C.P.. Planta: + 1. DESPACHO (1015)
Otros profesores	PABLO PASCUAL MUÑOZ

3.1 RESULTADOS DE APRENDIZAJE
- Understand the processes leading to the generation of a proposal for the design of a construction project for a public or private client.
- Present and communicate to the client the complexity of the problems related to the development of any engineering project: logistics, legal issues, new technologies, computer modelling and other.
- Understand the concept of Partnering in construction.
- Identify and manage the logistic problems arisen during the construction of any project, including the selection and planning of the construction machinery.
- Acquire the knowledge of the current processes of digital information management (IT and e-Tendering) applied to the construction sector.
- Understand the concept of Building Information Modelling (BIM) and its importance for the representation and communication of the technical information.
- Generate a technical report at Master's level.

4. OBJETIVOS
Analyze the construction and procurement procedures. Acquire the knowledge of the last trends in site management and control.

6. ORGANIZACIÓN DOCENTE	
CONTENIDOS	
1	Theory: Work site planning and management; construction techniques and procedures; selection and production of earthmoving machinery; renewal and cost of machinery.
2	Practice: Videos, examples, exercises and presentations by students regarding the selection of specific earthmoving machinery in terms of production and cost. Use of specific software for machinery fleet dimension.

7. MÉTODOS DE LA EVALUACIÓN				
Descripción	Tipología	Eval. Final	Recuper.	%
Workshops	Otros	Sí	Sí	100,00
TOTAL				100,00
Observaciones				
Students must follow the instructions given by the lectures in order to respond to several questions along the teaching period.				
Observaciones para alumnos a tiempo parcial				

8. BIBLIOGRAFÍA Y MATERIALES DIDÁCTICOS

BÁSICA

Construction contracts : law and management / John Murdoch and Will Hughes. 2008
Which contract? : choosing the appropriate building contract / Hugh Clamp, Stanley Cox and Sarah Lupton. 2007
European construction contracts / edited by Andrew Burr assited by Teresa J. Pritchard. 1994
FIDIC Conditions of contract for design, build and operate projects : general conditions : particular conditions : sample forms. 2008
Regulating infrastructure : monopoly, contracts, and discretion / José A. Gómez-Ibáñez. 2003
Lean culture for the construction industry : building responsible and committed project teams / Gary Santorella.2011
Project management in construction / Sidney M. Levy. 2012
An introduction to the Law of contract / by P. S. Atiyah. 1995
International standard contracts : the price of fairness /Antonio Boggiano.
Fundamentals of project management / Joseph Heagney. 2012
Advanced project management: a structured approach / Frederick Harrison and Dennis Lock. 2004
Making things happen: mastering project management / Scott Berkun. 2008
Moving the earth: the workbook of excavation, 6th ed., New York, Mc Graw Hill / Herbert L. Nichols and David A. Day, (2010).
Excavation and grading handbook: revised, 2nd printing, Carlsbad, Ca. Craftsman Book Company / Nick Capachi and John Capachi, (2007).
Construction Equipment Management for Engineers, Estimators, and Owners. Douglas D. Gransberg,Calin M. Popescu,Richard Ryan. Taylor & Francis Group. 2006.
The Earthmover Encyclopedia. Keith Haddock. MBI Publishing Company LLC, 1/4/2003

Esta es la Guía Docente abreviada de la asignatura. Tienes también publicada en la Web la información más detallada de la asignatura en la Guía Docente Completa.