GUÍA DOCENTE ABREVIADA DE LA ASIGNATURA

M809 - Construction and Procurement III/Construcción y Contratación III

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

Curso Académico 2017-2018

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	M809 - Construction and Procurement III/Construcción y Contratación III			
Créditos ECTS	2	Cuatrimestre	Cuatrimestral	
Web				
Idioma de impartición	Inglés		Forma de impartición	Presencial

Departamento	DPTO. TRANSPORTES Y TECNOLOGIA DE PROYECTOS Y PROCESOS
Profesor responsable	DANIEL CASTRO FRESNO
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Número despacho	E.T.S. de Ingenieros de Caminos, Canales y Puertos. Planta: + 1. DESPACHO (1015)
Otros profesores	REGNER HESSELLUND

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: Process management, partnering, contingencies, leadership, system theories, tendering and procurement.
2	Practice: New information technologies and digital models applied to construction (BIM, IT, e-tendering).

7. MÉTODOS DE LA EVALUACIÓN				
Descripción	Tipología	Eval. Final	Recuper.	%
Workshops	Otros	No	No	50,00
Coursework	Trabajo	Sí	Sí	50,00
TOTAL				100,00
Observaciones				
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.