

310504 - Integrated Management Prl, Q & Ma

Coordinating unit:	310 - EPSEB - Barcelona School of Building Construction		
Teaching unit:	732 - OE - Department of Management 753 - TA - Department of Architectural Technology		
Academic year:	2019		
Degree:	MASTER'S DEGREE IN BUILDING CONSTRUCTION MANAGEMENT (Syllabus 2015). (Teaching unit Compulsory)		
ECTS credits:	5	Teaching languages:	Spanish

Teaching staff

Coordinator:	Gaspar Fàbregas, Kàtia
Others:	Abad Puente, Jesus

Degree competences to which the subject contributes

Basic:

CB7. The students must be able to apply the acquired knowledges and their ability of resolution of problems in new or little known environments inside more wide environments (or multidisciplinary) related with their study field.

Specific:

CE04MUGE. Apply audit techniques to construction processes, in the areas of quality, safety and environment.

CE05MUGE. Implement management models of resources in companies in the sector of construction

CE10MUGE. Design indicator systems for building processes.

CE12MUGE. Apply management models suitable for edification processes

CE13MUGE. Implement standardized systems of integrated management (quality, safety and environment)

Generical:

CG4MUGE. Analyse, evaluate and synthesise critically, the information to propose solutions or alternatives to situations arising from building management processes.

Transversal:

05 TEQ. TEAMWORK. Being able to work as a team player, either as a member or as a leader. Contributing to projects pragmatically and responsibly, by reaching commitments in accordance to the resources that are available.

Teaching methodology

The subject Gestió Integrada PRL, Q i MA tries to create narrow links between the theoretical knowledge and the practical application throughout the different class sessions (2 weekly hours). Under this concept, the implication of the student in the theoretical and practical sessions is fundamental to ensure an enough learning process.

Learning objectives of the subject

At the end of the course students must be able to:

- Design an integrated management system based on international standards
- Conduct audits of management systems
- Develop systems of indicators that help to improve continuously processes and management systems of the



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organization

Study load

Total learning time: 125h	Hours large group:	17h 30m	14.00%
	Hours medium group:	5h	4.00%
	Hours small group:	5h	4.00%
	Guided activities:	7h 30m	6.00%
	Self study:	90h	72.00%

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Content

<p>title english</p>	<p>Learning time: 9h Theory classes: 2h Practical classes: 1h Guided activities: 1h 15m Self study : 4h 45m</p>
<p>Description: In this content the students will see:</p> <ul style="list-style-type: none"> 1.1 Current Management Principles 1.2 Management based on processes 1.3 The continous improvement 1.4 Orientation towards the achievement of objectives 1.5 Standardized management systems and certification processes 	
<p>2.- Quality management</p>	<p>Learning time: 27h Theory classes: 2h Practical classes: 4h Guided activities: 1h 15m Self study : 19h 45m</p>
<p>Description: In this content the students will see:</p> <ul style="list-style-type: none"> 2.1 Organization of quality in the building 2.2 Quality of the project, materials and execution of work 2.3 Models of quality management 	
<p>3.- Environmental management</p>	<p>Learning time: 27h Theory classes: 4h Practical classes: 2h Guided activities: 1h 15m Self study : 19h 45m</p>
<p>Description: In this content the students will see:</p> <ul style="list-style-type: none"> 3.1 Sustainability in building 3.2 Management of environmental aspects in building 3.3 Models of environmental management 	

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<p>4.- Occupational Health and Safety management</p>	<p>Learning time: 27h Theory classes: 4h Practical classes: 2h Guided activities: 1h 15m Self study : 19h 45m</p>
<p>Description: In this content the students see:</p> <ul style="list-style-type: none"> 4.1 Occupational accidents and diseases 4.2 Situation of the construction sector 4.3 Basis for activities of occupational health and safety 4.4 Risk management in construction 4.5 Occupational health and safety management systems 	
<p>5.- Integrated management systems</p>	<p>Learning time: 42h Theory classes: 6h Practical classes: 3h Guided activities: 1h 15m Self study : 31h 45m</p>
<p>Description: In this content the students see:</p> <ul style="list-style-type: none"> 5.1 Key aspects of the integration of management systems 5.2 Integration Methodologies 5.3 Benefits and difficulties in integrating management systems 5.4 Technical improvement of an integrated system 	

Qualification system

The evaluation of the student's achievement will be done considering these parameters:

$$\text{Final mark} = (0.60 \times \text{CC}) + (0.40 \times \text{EF})$$

Being:

Short practical cases (in-person) (CC): 60%

Final Exam (EF): 40%

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Bibliography

Basic:

Abad, Jesus; Sánchez-Toledo, Agustín. Aspectos clave de la integración de sistemas de gestión. Madrid: AENOR, 2012. ISBN 9788481437690.

Gatell Sánchez, Cristina; Pardo Álvarez, José Manuel. Factores que contribuyen al éxito de una auditoría integrada. Madrid: AENOR, 2011. ISBN 9788481437263.

Gatell Sánchez, Cristina; Pardo Álvarez, José Manuel. Éxito de un sistema integrado. Madrid: Aenor, 2014. ISBN 9788481438383.

Griffith, Alan. Integrated management systems for construction: quality, environment and safety. Harlow: Prentice Hall, 2011. ISBN 9780273730651.

Pardo Álvarez, José Manuel. Configuración y uso de un mapa de procesos. Madrid: Aenor, 2012. ISBN 9788481437966.