



Universitat de Lleida

DEGREE CURRICULUM  
**BUILDING SERVICES 2**

Academic year 2014-15

## Subject's general information

<b>Subject name</b>	BUILDING SERVICES 2
<b>Code</b>	101419
<b>Semester</b>	First semester
<b>Typology</b>	Compulsory
<b>ECTS credits</b>	6
<b>Theoretical credits</b>	0
<b>Practical credits</b>	0
<b>Office and hour of attention</b>	To agree with the lecturer by e-mail
<b>Department</b>	Computer and Industrial Engineering
<b>Modality</b>	Presencial
<b>Important information on data processing</b>	Consult <a href="#">this link</a> for more information.
<b>Degree</b>	Degree in Architectural Technology
<b>Office and hour of attention</b>	To agree with the lecturer by e-mail
<b>E-mail addresses</b>	jpique@diei.udl.cat csole@diei.udl.cat

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## Learning objectives

- To implement correctly the technics for technical drawings of services in order to be able to build and construct accordingly as planned
- To apply the regulations to the installations, as well as the different existing processes to verify its operation before its commissioning
- To know about the current regulations of the installations in the way of its real implementation

## Competences

### University of Lleida strategic competences

- Master Information and Communication Technologies.

### Degree-specific competences

- Ability to apply the technical rules to the building process and generate documents of technical specifications of the construction procedures and methods of the buildings.
- Aptitude for the predimensioning, design, calculation and checking of structures and for the direction of their material execution.
- Ability to constructively develop the installations of a building, control and plan their execution and verify the service and reception trials as well as those regarding maintainance.
- Aptitude to apply the specific rules about installations to the building process.

### Degree-transversal competences

- Ability to plan and organise the personal work.
- Ability to work in situations where information is lacking or you are under pressure.

## Subject contents

Chapter 1: Heating

Chapter 2: Air conditioning

Chapter 3: Fire protection

Chapter 4: Gas

## Evaluation

Evaluation	%	Considerations
Theory Test 1 - PT1	15%	To consider PT1 to calculate the average mark, it is necessary to get at least 4 (out of 10)
Exercices Test - EX1	20%	To consider EX1 to calculate the average mark, it is necessary to get at least 4 (out of 10)

Evaluation	%	Considerations
Theory Test 2 - PT2	15%	To consider PT2 to calculate the average mark, it is necessary to get at least 4 (out of 10)
Exercices Test - EX2	20%	To consider EX2 to calculate the average mark, it is necessary to get at least 4 (out of 10)
Group Work - T	30%	Each block (4 blocks) weights 5%. The presentation weights 5% and the answers to questions from students weithgs 5% too

## Bibliography

### Recommended bibliography

- Arizmendi Barnes, Luis Jesús (2003): "Cálculo y Normativa Básica de las Instalaciones en los edificios". Tomo I y II. Editorial EUNSA.
- Huidobro, José M. Manual de Telecomunicaciones. Ed. Ra-Ma
- Lagunas Marqués, Ángel – Instalaciones eléctricas de baja tensión en edificios de viviendas- Ed.Paraninfo – Madrid – 2003
- Martín, F.INSTALACIONES ELÉCTRICAS. Fundación Escuela de la Edificación.
- Vázquez Moreno, Javier. Herranz Aguilar, Juan Carlos. "Manual práctico de instalaciones en edificación. Tomo I. Instalaciones hidráulicas". Editorial LITEAM. 1ª edición. Año 2001. ISBN: 84-95596-05-9R
- Vázquez Moreno, Javier. Herranz Aguilar, Juan Carlos. "Manual práctico de instalaciones en edificación. Tomo II. Instalaciones energéticas". Editorial LITEAM. 1ª edición. Año 2001. ISBN: 84-95596-06-7R
- Vázquez Moreno, Javier. Herranz Aguilar, Juan Carlos. "Manual práctico de instalaciones en edificación. Tomo III. Instalaciones eléctricas." Editorial LITEAM. 1ª edición. Año 2001. ISBN: 84-95596-04-0