

340373 - LOAL-I2043 - Logic and Algebra

Coordinating unit:	340 - EPSEVG - Vilanova i la Geltrú School of Engineering		
Teaching unit:	749 - MAT - Department of Mathematics		
Academic year:	2019		
Degree:	BACHELOR'S DEGREE IN INFORMATICS ENGINEERING (Syllabus 2018). (Teaching unit Compulsory) BACHELOR'S DEGREE IN INFORMATICS ENGINEERING (Syllabus 2010). (Teaching unit Compulsory)		
ECTS credits:	7,5	Teaching languages:	Catalan

Teaching staff

Coordinator:	Immaculada Massana Hugas
Others:	Gonzalez Rovira, Josep Massana Hugas, Inmaculada

Degree competences to which the subject contributes

Specific:

1. CEFB3. Ability to understand and to have a good command of discrete, logical, algorithmically mathematics and computing complexity and its application to automatical treatment of information by means of computational systems and its application to solve engineering problems.

Transversal:

4. EFFECTIVE USE OF INFORMATION RESOURCES - Level 1. Identifying information needs. Using collections, premises and services that are available for designing and executing simple searches that are suited to the topic.
3. SELF-DIRECTED LEARNING. Detecting gaps in one's knowledge and overcoming them through critical self-appraisal. Choosing the best path for broadening one's knowledge.
2. SELF-DIRECTED LEARNING - Level 1. Completing set tasks within established deadlines. Working with recommended information sources according to the guidelines set by lecturers.

Learning objectives of the subject

Study load

Total learning time: 187h 30m	Hours large group:	60h	32.00%
	Hours medium group:	0h	0.00%
	Hours small group:	15h	8.00%
	Guided activities:	0h	0.00%
	Self study:	112h 30m	60.00%

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Content

	<p>Learning time: 74h 30m</p> <p>Theory classes: 18h</p> <p>Laboratory classes: 10h</p> <p>Self study : 46h 30m</p>
Description:	

	<p>Learning time: 32h</p> <p>Theory classes: 10h</p> <p>Laboratory classes: 2h</p> <p>Self study : 20h</p>
Description:	

	<p>Learning time: 47h</p> <p>Theory classes: 18h</p> <p>Self study : 29h</p>
Description:	

	<p>Learning time: 27h</p> <p>Theory classes: 10h</p> <p>Self study : 17h</p>
Description:	

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Bibliography

Basic:

Antoine, Ramon ; Camps, Rosa ; Moncasi, Jaume. Introducció a l'àlgebra abstracta : amb elements de matemàtica discreta. Bellaterra: Universitat Autònoma de Barcelona, Servei de Publicacions, 2007. ISBN 9788449025150.

Barrière, Lali ; Claverol, Mercè. Introducció a la lògica [on line]. Barcelona: Edicions UPC, 2006 [Consultation: 24/11/2014]. Available on: <<http://hdl.handle.net/2099.3/36696>>. ISBN 9788498801613.

Complementary:

Lipschutz, Seymour ; Lipson, Marc. Matemáticas discretas. 3a ed. México [etc.]: McGraw-Hill, 2009. ISBN 9789701072363.