

UNIVERSIDAD DE CASTILLA - LA MANCHA **GUÍA DOCENTE**

Course: NETWORK SECURITY

Type: ELECTIVE

Degree: 406 - UNDERGRADUATE DEGREE IN COMPUTER SCIENCE AND ENGINEERING (AB)
Center: 604 - SCHOOL OF COMPUTER SCIENCE AND ENGINEERING (AB)

Year: 4 Main language: Spanish

Lecturer: JOSE LUIS MARTINEZ MARTINEZ - Group(s): 16

Use of additional languages: Web site:

ECTS credits: 6 demic year: 2022-23 Group(s): 16 Duration: First seme language: English

Eng	lish Friendly: Y	
	Bilingual: N	
	#: b	

2. Pre-Requisites

Building/Office ESII-1.C.11

Mandatory subject for the Specific Technology of Computer Engineering Subject, it is advisable to have completed the Basic Training modules and the Common module to the Computing Branch (Modules I and II). It is therefore recommended to have clear the basic

ioseluis.martinez@uclm.es

3. Justification in the curriculum, relation to other subjects and to the profession

SISTEMAS INFORMÁTICOS

This subject is part of the subject Specific Technology of Computer Engineering, within the intensification of Computer Engineering. It is a compulsory subject to obtain the mention corresponding to the aforementioned intensification.

Helps to reach one of the capacities that the graduates in Computer science of the UCLM must have, in particular, the capacity [IC6]: Ability to understand, apply and manage the guarantee and security of the computer systems

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4. Degree competences achieved in this course

Course competences

Code Description

IC06 Ability to un Ability to understand, apply, and manage the reliability and safety of digital systems INS01

Analysis, synthesis, and assessment skills. Organising and planning skills.

INS04 Problem solving skills by the application of engineering techniques.

PER02 Ability to work in multidisciplinary teams.

SIS01 Critical thinking. SIS03 Autonomous learning

Creativity. SIS05

5. Objectives or Learning Outcomes Course learning outcomes

Ability to explain and apply the security principles needed to protect a network and the devices in it.

Ability to design, set up and configure secure remote access

6. Units / Contents

Unit 1:

Unit 1.1 Unit 1.2

Unit 2: Unit 2.1

Unit 2.2

Unit 2.3 Unit 3:

Unit 3.1

Unit 3.2 Unit 3.3

Unit 4.1

Unit 4.2 Unit 4.3

Unit 4.4 Unit 4.5

Unit 5:

Unit 5.1 Unit 5.2

7. Activities, Units/Modules and Methodology								
Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description	
Class Attendance (theory) [ON-SITE]	Combination of methods	IC06 INS01 SIS01	1.04	26	Y	N		
Class Attendance (practical) [ON-SITE]	Practical or hands-on activities	IC06 SIS01	1.2	30	Y	N		
Project or Topic Presentations [ON-SITE]	Group Work	IC06 INS01 INS02 INS04 PER02 SIS01 SIS03 SIS05	0.12	3	Υ	N		
Final test [ON-SITE]	Problem solving and exercises		0.2	5	Y	Υ	1	
On-line Activities [OFF-SITE]	Assessment tests	IC06 SIS01 SIS05	0.16	4	Y	N		
Writing of reports or projects [OFF-SITE]	Self-study	IC06 INS01 INS02 INS04 PER02 SIS01 SIS03 SIS05	0.8	20	Υ	N		
Study and Exam Preparation [OFF-SITE]	Self-study	INS01 INS02 INS04	2.48	62	Y	N		
Total:			6	150				
Total credits of in-class work: 2.56							Total class time hours: 64	
Total credits of out of class work: 3.44				Total hours of out of class work: 86				

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment)

8. Evaluation criteria and Grading System					
Evaluation System	Continuous assessment	Non-continuous evaluation*	Description		
Final test	25.00%	50.00%			
Final test	25.00%	50.00%			
Progress Tests	50.00%	0.00%			
Total	100.00%	100.00%			

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Project or Topic Presentations [PRESENCIAL][Group Work]	3
Final test [PRESENCIAL][Problem solving and exercises]	5
On-line Activities [AUTÓNOMA][Assessment tests]	4
Writing of reports or projects [AUTÓNOMA][Self-study]	10
Unit 1 (de 5):	
Activities	Hours

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Class Attendance (theory) [PRESENCIAL][Combination of methods]	4
Study and Exam Preparation [AUTÓNOMA][Self-study]	2
Unit 2 (de 5):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Combination of methods]	7
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	7
Writing of reports or projects [AUTÓNOMA][Self-study]	4
Study and Exam Preparation [AUTÓNOMA][Self-study]	15
Unit 3 (de 5):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Combination of methods]	4
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	4
Writing of reports or projects [AUTÓNOMA][Self-study]	4
Study and Exam Preparation [AUTÓNOMA][Self-study]	10
Unit 4 (de 5):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Combination of methods]	11
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	12
Writing of reports or projects [AUTÓNOMA][Self-study]	2
Study and Exam Preparation [AUTÓNOMA][Self-study]	16
Unit 5 (de 5):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Combination of methods]	4
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	4
On-line Activities [AUTÓNOMA][Assessment tests]	2
Writing of reports or projects [AUTÓNOMA][Self-study]	2
Study and Exam Preparation [AUTÓNOMA][Self-study]	14
Global activity	
Activities	hours
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	27
Project or Topic Presentations [PRESENCIAL][Group Work]	3
Final test [PRESENCIAL][Problem solving and exercises]	5
On-line Activities [AUTÓNOMA][Assessment tests]	6
Writing of reports or projects [AUTÓNOMA][Self-study]	22
Study and Exam Preparation [AUTÓNOMA][Self-study]	57
Class Attendance (theory) [PRESENCIAL][Combination of methods]	30
	Total horas: 150

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
William Stallings	Fundamentos de seguridad en redes : aplicaciones y estándares	Prentice Hall			2003	
varios	Colección Pack Completa	0xword				Colección de varios ejemplares
	http://0xword.com/es/					