

UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

	SYSTEMS AND SERVICES PLANNI CORE COURSE	-	-	RATION Code: 42341 ECTS credits: 6				
Degree: 347 - DEGREE PROGRAMME IN COMPUTER SCIENCE ENGIN					ENGINEERING Academic year: 2020-21			
Center	108 - SCHOOL OF COMPUTER SCI	ENCE C	L	Group(s): 20				
Year			Duration: First semester					
Main language: Spanish Second language: English								
Use of additional English Friendly: Y								
Web site	Web site: Bilingual: N							
Lecturer: JAVIER A	YLLON PEREZ - Group(s): 20							
Building/Office	Department	Phone numbe	r Email	Office hours				
Fermín Caballero	TECNOLOGÍAS Y SISTEMAS DE INFORMACIÓN	3330	javier.	ayllon@uclm.es	Available on https://esi.uclm.es/categories/profesorado-y- tutorias			
Lecturer: JESÚS BLANCO RODRÍGUEZ DE GUZMAN - Group(s): 20								
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2. Pre-Requisites

Advanced networks knowledge, TCP/IP theory and programming. Linux administration experience.

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

In this course, such as others related, comes with the need of well trained desginers of systems integration. We will follow the teachings in "Diseño de Infraestructura de Red". We also show contents following all we learnt in "Seguridad en Redes"

4. Degree com	petences achieved in this course
Course compet	ences
Code	Description
IC01	Ability to design and build digital systems, including computers, based on microprocessors and communication systems.
IC07	Ability to analyse, assess, select, and set up hardware platforms for the development and execution of applications and digital systems
INS01	Analysis, synthesis, and assessment skills.
INS02	Organising and planning skills.
INS04	Problem solving skills by the application of engineering techniques.
INS05	Argumentative skills to logically justify and explain decisions and opinions.
PER02	Ability to work in multidisciplinary teams.
PER04	Interpersonal relationship skills.
PER05	Acknowledgement of human diversity, equal rights, and cultural variety.
SIS01	Critical thinking.
SIS03	Autonomous learning.
SIS04	Adaptation to new scenarios.
SIS05	Creativity.

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Configure services and plan the execution of applications

Ability to configure and manage the parameters related to the quality of service of a computer network

Ability to size and integrate systems using the most appropriate hardware and software platforms for the development and execution of computer applications and services.

Ability to plan and size a SAN, LAN, MAN and WAN network.

6. Units / Contents

Unit 1: Intro. Generic networks Unit 2: Network convergence.

Unit 3: Design, dimensioning and planning

Unit 4: Study cases Unit 5: Hands on. PBX with asterisk.

7. Activities, Units/Modules and M	Methodology							
Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description	
Class Attendance (theory) [ON- SITE]	Lectures	IC01 IC07	0.6	15	N	-	Teaching of the subject matter by lecturer	
Individual tutoring sessions [ON- SITE]		IC01 IC07	0.18	4.5	N	-	Individual or small group tutoring in lecturer's office, classroom or laboratory	
Study and Exam Preparation [OFF- SITE]	Self-study	IC01 IC07	1.8	45	N	-	Self-study	
Other off-site activity [OFF-SITE]	Practical or hands-on activities	IC01 IC07	0.9	22.5	Ν	-	Lab practical preparation	
Problem solving and/or case studies [ON-SITE]	Problem solving and exercises	IC01 INS04 INS05 PER04	0.6	15	Y	N	Worked example problems and cases resolution by the lecturer and the students	
Writing of reports or projects [OFF- SITE]	Self-study	IC01 IC07 INS01 INS02 INS04 INS05 PER02 SIS01 SIS03 SIS04 SIS05	0.9	22.5	Y	N	Preparation of essays on topics proposed by lecturer	
Laboratory practice or sessions [ON-SITE]	Practical or hands-on activities	IC01 IC07 INS04 INS05 PER02 PER04	0.72	18	Y	Y	Realization of practicals in laboratory /computing room	
Final test [ON-SITE]	Assessment tests	IC01 IC07 INS01 INS04 INS05	0.3	7.5	Y	Y	According to the evaluation modality	
Total:				150				
Total credits of in-class work: 2.4				Total class time hours: 60				
Total credits of out of class work: 3.6				Total hours of out of class work: 90				

As: Assessable training activity

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				
Test	25.00%	25.00%	Partial test 2 of the second half of the syllabus of the subject				
Theoretical papers assessment	15.00%	15.00%	Non-compulsory activity that can be retaken. To be carried out before end of teaching period				
Laboratory sessions	25.00%	25.00%	Compulsory activity that can be retaken. To be carried out during lab sessions				
Oral presentations assessment	10.00%	10.00%	Non-compulsory activity that cannot be retaken. To be carried out during the theory/lab sessions				
Test	25.00%	25.00%	Partial test 1 of the first half of the syllabus of the subject				
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).

Evaluation criteria for the final exam:

Continuous assessment:

In compulsory activities, a minimum mark of 40% is required in order to pass that activity and have the possibility to therefore pass the entire subject. The evaluation of the activities will be global and therefore must be quantified by means of a single mark. If the activity consists of several sections, each section may be evaluated separately provided students are informed in writing of this evaluation criterion at the beginning of the academic year. In the case of the activities that may be retaken (i.e., rescheduling), an alternative activity or test will be offered in the resit/retake exam call (convocatoria extraordinaria). The partial tests will be common for all the theory/laboratory groups of the subject and will be evaluated by the lecturers of the subject in a serial way, i.e., each part of the final exam will be evaluated by the same lecturer for all the students.

A student is considered to pass the subject if she/he obtains a minimum of 50 points out of 100, taking into account the points obtained in all the evaluable activities, and also has passed all the compulsory activities.

For students who do not pass the subject in the final exam call (convocatoria ordinaria), the marks of activities already passed will be conserved for the resit/retake exam call (convocatoria extraordinaria). The oral presentations assessment (non-recoverable activity) will be conserved for the resit/retake exam call even if it has not been passed. In the case of the passed recoverable activities, the student will have the opportunity to receive an alternative evaluation of those activities in the resit/retake exam call and, in that case, the final grade of the activity will correspond to the latter grade obtained.

The qualification of the passed activities in any call, except for the partial tests, will be conserved for the next academic year at the request of the student, provided that it is equal or superior to 5 and the training activities and the evaluation criteria of the subject are not modified in the next academic year. The failure of a student to attend the partial 1 and partial 2 tests will automatically result in her/him receiving a "Failure to attend; (no presentado). If the student has not passed any compulsory evaluation activity, the maximum final grade will be 40%.

Non-continuous evaluation:

Students who are unable to attend training activities on a regular basis may apply at the beginning of the semester for the non-continuous assessment mode. Similarly, if a student who is undergoing continuous assessment incurs any circumstance that prevents her/him from regularly attending the classroom-based training activities, she/he may renounce the accumulated mark in continuous assessment and apply for the non-continuous assessment mode. In this case, a notification by the student must be given before the date scheduled for the tests in the ordinary call, in accordance with a deadline that will be informed at the beginning of the semester. Students who take the non-continuous assessment mode will be globally graded, in 2 annual calls per subject , an ordinary and an extraordinary one (evaluating 100% of the competences), through the assessment systems indicated in the column "Non-continuous assessment".

Specifications for the second resit / retake exam:

Same characteristics as the resit/retake exam call.

9. Assignments, course calendar and important dates Not related to the syllabus/contents

Hours

hours

General comments about the planning: The subject is taught in 3 x 1,5 hour sessions per week.

10. Bibliography and Sources					
Author(s)	Title/Link	Publishing house Citv	ISBN	Year	Description
Nevio Benvenuto; Michele Zorzi	Principles of Communications Networks and Systems	John Wiley & Sons	978-0-470-74431-4	2011	
Huidobro, José Manuel	Redes y servicios de telecomunicaciones	Paraninfo	84-283-2922-2	2006	
	Regulación, competencia y convergencia de servicios de telecomunicación, audiovisual e Internet	Colegio Oficial de Ingenieros de Telecomunicación			
Forouzan, Behrouz A.	Transmisión de datos y redes de comunicaciones	McGraw-Hill	978-84-481-5617-6	2007	
Randy Zhang	GBP Design and Implementaation	Cisco Press	1-58714-470-0	2016	
Jim Van Meggelen; Russell Bryant; Leif Madsen	Asterisk: The Definitive Guide, 5th Edition	O'Reilly Media, Inc.	978-1-4920-3160-4	2019	