

## [GIH205] INFORMATION SYSTEMS

### GENERAL INFORMATION

<b>Studies</b>	DEGREE IN COMPUTER ENGINEERING		<b>Subject</b>	SOFTWARE ENGINEERING, INFORMATION SYSTEMS AND SMART SYSTEMS
<b>Semester</b>	2	<b>Course</b>	3	<b>Mention / Field of specialisation</b>
<b>Character</b>	COMPULSORY		<b>Language</b>	EUSKARA
<b>Plan</b>	2017	<b>Modality</b>	Adapted Face-to-face	<b>Total hours</b>
<b>Credits</b>	4,5	<b>Hours/week</b>	3.72	67 class hours + 45.5 non-class hours = <b>112.5 total hours</b>

### PROFESSORS

VALENCIA PARAFITA, XABIER

### REQUIRED PREVIOUS KNOWLEDGE

Subjects	Knowledge
(No specific previous subjects required)	(No previous knowledge required)

### SKILLS

#### VERIFICA SKILLS

##### SPECIFIC

**GIE206** - To be able to design, deploy, administer and manage computer networks.

**GIE401** - To integrate Communications and Information Technology solutions and business processes that meet the informational needs of the organisations, allowing them to efficiently achieve their goals, thereby granting them a competitive advantage.

**GIE402** - To determine the requirements of an organisation's communication and information systems according to security aspects and compliance with the legislation and regulations in force.

**GIE403** - To be able to actively take part in the specification, design, implementation and maintenance of communication and information systems.

##### GENERAL

**GIGC03** - To be able to design, develop, evaluate and ensure the accessibility, ergonomics, usability and security of computer services, applications and systems and the information they manage.

**GIGC05** - To be able to conceive, develop and maintain computer systems, services and applications, using the software engineering methods in order to ensure quality

**GIGC07** - To have the knowledge, understanding and ability to apply the laws pertaining to Computer Technology Engineering and manage specifications, standards and regulations of mandatory compliance.

**GIGC12** - To understand and apply the fundamentals of economics and human resource management, project planning and organisation, legal and regulatory frameworks and standardisation in computer technology projects

##### BASIC

**G\_CB2** - To be able to apply knowledge to occupational or professional tasks; have the necessary skills to pose and defend arguments, and to solve problems within their field of study

**G\_CB4** - To be able to communicate information, ideas, problems and solutions to both expert and lay audiences

**G\_CB5** - To have developed learning abilities required to embark on subsequent studies with a high level of autonomy.

### LEARNING RESULTS

**RG301** Assumes responsibilities in the work team, organizing and planning the tasks to be developed, facing the contingencies and encouraging the participation of its members.

#### LEARNING ACTIVITIES

	CH	NCH	TH
Development, writing and presentation of memorandums, reports, audiovisual material, etc.	2 h.	2 h.	4 h.
Relating to projects/POPBLs carried out individually or in teams			

#### EVALUATION SYSTEM

Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence

**Comments:** Continuous assessment.

W

100%

#### MAKE-UP MECHANISMS

(No mechanisms)

**CH - Class hours:** 2 h.

**NCH - Non-class hours:** 2 h.

**TH - Total hours:** 4 h.

**RG302** Analyze the intervening variables in the problem and propose actions for a stable situation.

**LEARNING ACTIVITIES**

	<i>CH</i>	<i>NCH</i>	<i>TH</i>
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams	2 h.	1 h.	3 h.

**EVALUATION SYSTEM**

*W*

Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence

**Comments:** Continuous assessment.

**MAKE-UP MECHANISMS**

(No mechanisms)

**CH - Class hours:** 2 h.

**NCH - Non-class hours:** 1 h.

**TH - Total hours:** 3 h.

**RG194** [!] *Análisis de los impactos de los ODS en el proyecto realizado*

**LEARNING ACTIVITIES**

	<i>CH</i>	<i>NCH</i>	<i>TH</i>
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams	1 h.	2 h.	3 h.

**EVALUATION SYSTEM**

*W*

Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence

**Comments:** Continuous assessment.

**MAKE-UP MECHANISMS**

(No mechanisms)

**CH - Class hours:** 1 h.

**NCH - Non-class hours:** 2 h.

**TH - Total hours:** 3 h.

**RG304** Define the problem, develop the solution and present the conclusions in a efficient manner, arguing and justifying each one of them in writing.

**LEARNING ACTIVITIES**

	<i>CH</i>	<i>NCH</i>	<i>TH</i>
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams	3 h.	1 h.	4 h.

**EVALUATION SYSTEM**

*W*

Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence

**Comments:** Continuous assessment. It may be asked to redo the document.

**MAKE-UP MECHANISMS**

(No mechanisms)

**CH - Class hours:** 3 h.

**NCH - Non-class hours:** 1 h.

**TH - Total hours:** 4 h.

**RG305** Define the problem, develop the solution and present the conclusions in a efficient manner, arguing and justifying each one of them in spoken form.

LEARNING ACTIVITIES	CH	NCH	TH
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams	2 h.	2 h.	4 h.
<b>EVALUATION SYSTEM</b>	<b>W</b>	<b>MAKE-UP MECHANISMS</b>	
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence <b>Comments:</b> Continuous assessment.	100%	(No mechanisms)	
<b>CH - Class hours:</b> 2 h.			
<b>NCH - Non-class hours:</b> 2 h.			
<b>TH - Total hours:</b> 4 h.			

**RG1317** [!] *Es capaz de aplicar las buenas prácticas en gestión de servicios TI.*

LEARNING ACTIVITIES	CH	NCH	TH
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams	8 h.	5 h.	13 h.
Individual study and work, tests and evaluations and check points	1 h.		1 h.
Personal study and flexible development of concepts and subjects using active dynamics to promote more meaningful learning	15 h.	11 h.	26 h.
<b>EVALUATION SYSTEM</b>	<b>W</b>	<b>MAKE-UP MECHANISMS</b>	
Reports of solving exercises, case studies, computer practices, simulation practices and laboratory practices	20%	Written, coding/programming and individual oral tests for the evaluation of technical skills in the field	
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	30%	<b>Comments:</b> Students with less than 5 in the Control point must retake the exam. Control point value will be 25% and retake 75%. Project: There will not be any retake of the individual defense.	
Written, coding/programming and individual oral tests for the evaluation of technical skills in the field	50%		
<b>Comments:</b> Minimum grade: 5			
<b>CH - Class hours:</b> 24 h.			
<b>NCH - Non-class hours:</b> 16 h.			
<b>TH - Total hours:</b> 40 h.			

**RG1318** [!] *Reconoce la evolución de los sistemas de información el mapa actual de las AIE y es capaz de aplicar un proceso de selección de solución TI con garantías.*

LEARNING ACTIVITIES	CH	NCH	TH
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams	2 h.	2 h.	4 h.
Individual study and work, tests and evaluations and check points	2 h.		2 h.
Practices of problem solving and real or simulated context projects	4 h.	2,5 h.	6,5 h.
Presentation of the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	3 h.	3 h.	6 h.
Individual and team exercises	3 h.	2 h.	5 h.
<b>EVALUATION SYSTEM</b>	<b>W</b>	<b>MAKE-UP MECHANISMS</b>	
Reports of solving exercises, case studies, computer practices, simulation practices and laboratory practices	25%	Written, coding/programming and individual oral tests for the evaluation of technical skills in the field	
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	25%	<b>Comments:</b> Students with less than 5 in the Control point must retake the exam. Control point value will be 25% and retake 75%. Project: There will not be any retake of the individual defense.	
Written, coding/programming and individual oral tests for the evaluation of technical skills in the field	50%		
<b>Comments:</b> Minimum grade: 5			

**CH - Class hours:** 14 h.
   
**NCH - Non-class hours:** 9,5 h.
   
**TH - Total hours:** 23,5 h.

**RG1319** [!] *Es capaz de entender la necesidad y definir un ciclo de vida de servicio TI.*

**LEARNING ACTIVITIES**

	<i>CH</i>	<i>NCH</i>	<i>TH</i>
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams	6 h.	4 h.	10 h.
Individual study and work, tests and evaluations and check points	1 h.		1 h.
Personal study and flexible development of concepts and subjects using active dynamics to promote more meaningful learning	12 h.	8 h.	20 h.

**EVALUATION SYSTEM**

	<i>W</i>
Reports of solving exercises, case studies, computer practices, simulation practices and laboratory practices	20%
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	30%
Written, coding/programming and individual oral tests for the evaluation of technical skills in the field	50%

**Comments:** Minimum grade: 5

**MAKE-UP MECHANISMS**

Written, coding/programming and individual oral tests for the evaluation of technical skills in the field  
**Comments:** Students with less than 5 in the Control point must retake the exam. Control point value will be 25% and retake 75%. Project: There will not be any retake of the individual defense.

**CH - Class hours:** 19 h.
   
**NCH - Non-class hours:** 12 h.
   
**TH - Total hours:** 31 h.

**CONTENTS**

Strategic alignment of ICTs at the company level

1. ITC management
2. Business architectures
3. ITIL
4. COBIT

**LEARNING RESOURCES AND BIBLIOGRAPHY**

**Learning resources**

Moodle Platform
   
 Presentations by external Lecturers
   
 Topic related web quires
   
 Flipped Learning material and questionnaires
   
 Subject notes

**Bibliography**

[http://katalogoa.mondragon.edu/janium-bin/janium\\_login\\_opac\\_re\\_Ink.pl?grupo=INFORMATICA32&ejecuta=30&](http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_Ink.pl?grupo=INFORMATICA32&ejecuta=30&)