



IDENTIFYING DATA

ICTs in International Trade

Subject	ICTs in International Trade			
Code	V06M101V02105			
Study programme	(*)Máster Universitario en Comercio Internacional - Presencial			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	4.5	Mandatory	1st	1st
Teaching language	Spanish			
Department				
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General description				

Skills

Code	
A5	Students must possess the learning skills that enable them to continue studying in a way that will be largely self-directed or autonomous.
B4	Proficiency in ICT related to international trade.
B5	Working in a team.
C14	Knowledge of electronic platforms and Internet markets. Mastery of electronic operations, and the collateral aspects of security, risks, and operating structures.
C15	Knowledge of the different data management applications and computer tools for electronic commerce.
C16	Obtaining and evaluating information on the Internet.
C17	Analysis of software, choice of systems and applications.

Learning outcomes

Expected results from this subject	Training and Learning Results
Applied knowledge of the most relevant aspects of information and communication technologies that are useful in the professional activity in the international trade environment. Ability to organize information in contexts of low complexity. Usage and assesment of sources of information on the Web. Knowledge of the basics of the Web and usage of online tools for site design. Usage and assesment of solutions based on cloud computing and SaaS useful in commercial activity.	A5 B4 B5 C14 C15 C16 C17

Contents

Topic	
1. Introduction to computer tools in international trade.	Computer tools and their usefulness in international trade. Types and functions of ICT-based tools.
2. Analysis and processing of data.	Advanced use of spreadsheets. Introduction to databases. Tools for information presentation.

3. Basics of Internet.	Technical aspects. Email. The Web. Searching for information on the Internet. Sources. Quality of information.
4. Online tools. Cloud computing. SaaS (Software as a Service).	Online tools for data processing and document creation. Tools to support workgroup in virtual environments. Online tools for management and commerce.
5. Information security. Tools and techniques for protection of computer systems.	Introduction to the security of ICT systems. Basic techniques and tools.

Planning			
	Class hours	Hours outside the classroom	Total hours
Problem solving	18	37.8	55.8
Practices through ICT	10	22.6	32.6
Lecturing	7	14	21
Objective questions exam	1	2.1	3.1

*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
	Description
Problem solving	Carrying out work individually or in a group, raised during contact hours. They may require that the student have to document, reflect, analyze case studies and / or solve problems.
Practices through ICT	Practices in computing classroom and in an autonomous way using ICT tools.
Lecturing	Teacher presentation of contents on the subject matter of study, theoretical bases and / or guidelines of a work, exercise or project to be developed by the student.

Personalized assistance	
Methodologies	Description
Problem solving	The student will have continuous monitoring and personalized attention, through problem solving classes, case studies and debate, and regular control of the work done. In any teaching circumstance (face-to-face, online or mixed) the tutoring sessions may be carried out by telematic means (email, videoconference, FAITIC forums, ...) under the modality of prior agreement. As far as possible, these requests for tutoring will be attended in person within a maximum period of 3 business days.
Tests	Description
Objective questions exam	The student will have a continuous follow-up and personalized attention, through classes of problem solving, case studies and debate, and regular control of the work done.

Assessment					
	Description	Qualification	Training and Learning Results		
Problem solving	The works elaborated by the students will be evaluated. They can be individual or group works; activities, exercises, resolution of problems, documentation and analysis of cases and situations. The exposition of the works in class can also be evaluated.	90	A5	B4	C14 C15 C16 C17
Objective questions exam	Written test where you should answer short questions and / or test type, with single or multiple choices. They will cover all the contents of the subject.	10	A5	B4	C14 C15 C16 C17

Other comments on the Evaluation

The above assessment is valid for **students who follow continuous assessment**. The conditions to be evaluated by continuous assessment are:

- For students in face-to-face mode: they must attend a minimum of 75% of the classroom hours.
- For online students: they must use the e-learning platform sufficiently assiduously (typically at least every 2 days) to be aware of the progress of the subject, as well as the appropriate and regular participation in online activities.

Those who do not meet these requirements will be considered not to follow the continuous assessment modality. Therefore they will be assessed by the modality for students that don't follow the continuous assessment modality (see below).

Alternatively, a student who, despite complying with these conditions, does not want to be evaluated by continuous assessment may explicitly renounce in writing to the professor, before the 3rd week of teaching. Or, if during the course, he / she will documentary and sufficiently proof of an incidental cause that objectively prevents him from following the continuous assessment. Otherwise, any student who fulfills the described conditions will be assessed by continuous assessment.

In general, for the face-to-face or virtual students, evaluated by continuous assessment, who have fulfilled all the indicated requirements to eventually pass the subject by this way, the final grade N of the student will be obtained as:

$$N = 0.9 * A + 0.1 * B$$

Being:

- A the result of the weighted average (depending on the estimated workload) of the grades obtained in each activity or evaluable item of the sections of case studies and problem solving and / or exercises.
- And B the note obtained in the section of Objective questions exam

Both A and B will score between 0 and 10.

It shall be understood that the student passed if the final mark N is greater than or equal to 5 over 10.

It is also an essential requirement to be able to pass by continuous assessment to perform and deliver, within the deadlines set for each modality, all activities or items evaluable in part A and obtain a score equal to or greater than 4 out of 10 in each and every one of them (generally each module of the subject will consist of one or more evaluable items). Otherwise the subject will be automatically considered as not passed. There may be compulsory delivery activities but that will only be assessed as pass/ not pass, in which case it will be required to be delivered and evaluated as pass, but will not be considered for the calculation of the above-mentioned average A.

For students who follow the continuous assessment but who have not met some of the essential requirements described above to pass the subject in its corresponding modality (delivery of all activities or items evaluable within the deadlines, obtaining the minimum grade in all activities or evaluable items, having a final grade ≥ 5), the final grade N can never exceed 4.9 out of 10. Therefore, it will be calculated as:

$$N = \text{minimum}(0,9 * A + 0,1 * B ; 4,9)$$

That is, as indicated in the formula, the final grade N will be the minimum of the values of $(0.9 * A + 0.1 * B)$ and 4.9.

Students who do not follow the continuous assessment modality, as well as those who submit to the July exams or other extraordinary calls that may be established, will have to make and deliver, before the date of the exam, all the activities or evaluable items of the sections of Case Studies and Resolution of problems and / or exercises that will be proposed in the subject. And take the Objective questions exam indicated in the Assesment section. In this case, the final grade will be:

$$N = 0,65 * A + 0,35 * B$$

being "A" the grade obtained in the activities of the sections on Problem Solving; and "B" the grade obtained in the Objective questions exam .

In any case, it is strongly recommended for the student to inform the teacher about his/her intention to follow this modality, to receive the pertinent advices.

IN CASE OF DOUBT, DISCREPANCY, ERROR OF TRANSLATION, INCOMPLETITUDE, INTERPRETATION, OR SIMILAR, THE CONTENT SPECIFIED IN THE SPANISH VERSION OF THIS GUIDE WILL PREVAIL.

Sources of information

Basic Bibliography

Fingar, Peter, **Dot-cloud : the 21st century business platform built on cloud computing**, 1, Meghan-Kiffer Press, 2009

Rigollet, Pierre, **Análisis eficaz de datos con tablas dinámicas**, 1, Ediciones ENI, 2017

García, E; González, J., **Introducción ás bases de datos : un enfoque teórico-práctico**, 1, Servizo de Publicacións da Universidade de Vigo, 2012

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Dion Hinchcliffe, **Eight ways that cloud computing will change business**,
Rachael King, **How Cloud Computing Is Changing the World**,
Anetcom, **Garantías de navegación segura: análisis de los sellos y códigos de confianza en comercio electrónico**,
Anahi Ornelas Ley * / Maricela López Ornelas, **Calidad de la información en internet**,
Johns Hopkins University, **EVALUATING INFORMATION**,
INTECO-CERT, **RIESGOS Y AMENAZAS EN CLOUD COMPUTING**,
AGENCIA ESPAÑOLA DE PROTECCIÓN DE DATOS, **GUÍA PARA CLIENTES QUE CONTRATEN SERVICIOS DE CLOUD COMPUTING**,
Carmen Cuesta, Javier Alonso, David Tuesta, Santiago Fernández de Lis, **El desarrollo de la industria del cloud computing: impactos y transformaciones en marcha**,
ENI, **Microsoft® Excel 2016**, 1, ENI, 2016
AIMC, **Navegantes en la Red - Encuesta AIMC a usuarios de Internet**,
EFEEMPRENDE, **Amazon Web Services, la empresa que consigue que los negocios crezcan**,
Carmen Cuesta, Javier Alonso, David Tuesta, Santiago Fernández de Lis, **El desarrollo de la industria del cloud computing: impactos y transformaciones en marcha**, BBVA Research,
Databarracks, **Changes to computer thinking**,
Inés Ramírez Nicolás, **¿QUÉ APORTA EL COMERCIO ELECTRÓNICO EN LA NUBE?**, eMarket Services Spain,
Complementary Bibliography
BusinessGoOn, **Guía de Big Data**, BusinessGoOn,

Recommendations

Other comments

Given the practical approach of the subject, based in the development of competitions that can require a true training in the time, and the consequent difficulty to evaluate these competitions in an only examination, the responsible advises students to follow-up of the modalidad of continuous evaluation.

Orientations for the course:

- The assistance to the kinds presenciales is important for the students that opt by this option, given the methodological approach and the realization of activities grupales.
- The planning for the respect of the terms of delivery and calendars of activities is fundamental for the virtual students.
- The regular connection (each two days at least) to the platform of teledocencia and the participation in the activities grupales online consider fundamental for the follow-up of the subject in the modalidad virtual.

Contingency plan

Description

=== EXCEPTIONAL PLANNING ===

Given the uncertain and unpredictable evolution of the health alert caused by COVID-19, the University of Vigo establishes an extraordinary planning that will be activated when the administrations and the institution itself determine it, considering safety, health and responsibility criteria both in distance and blended learning. These already planned measures guarantee, at the required time, the development of teaching in a more agile and effective way, as it is known in advance (or well in advance) by the students and teachers through the standardized tool.

=== ADAPTATION OF THE METHODOLOGIES ===

The proposed methodologies will be maintained, making use of online environments for the development of teaching and to allow group work by students in those activities where it is required (Faitic, Remote Campus, online tools from Google, Microsoft, etc.).

The tutorials will be attended online through the remote Campus or other appropriate videoconferencing or online communication tools (Skype, email, chat, etc ...).

=== ADAPTATION OF THE TESTS ===

The proposed evaluation will be maintained. The deliveries of activities as well as the tests will be carried out online, mainly through the platforms of the University of Vigo (Faitic, Remote Campus, etc).

In the event of exceptional health circumstances that prevent the development of face-to-face sessions, the requirement for the in-person modality of attending a minimum of 75% of the face-to-face hours to be evaluated by continuous evaluation will be eliminated, being replaced by the following:

- For students in the in-person modality, to be evaluated by continuous evaluation, they must attend a minimum of 75% of

the total hours of face-to-face teaching and virtual teaching in synchronous mode of the subject.
