IDENTIFYING DATA
ICTs in International Trade

Subject	ICTs in International Trade
Code	V06M101V01105
Study programme	University Master?s Degree in International Trade

Descriptors	ECTS Credits	Choose	Year	Quadmester
	4.5	Mandatory	1st	1st

Teaching language	Spanish
Department	
Coordinator	García Rosello, Emilio
Lecturers	García Rosello, Emilio González Dacosta, Jacinto
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General description	

Competencies

Code	
C9	(*)Conocimiento aplicado de las herramientas informáticas necesarias en el comercio internacional
D16	(*)Conocimiento de las distintas aplicaciones informáticas, diseño y construcción de páginas web, y de las técnicas adecuadas para el comercio electrónico
D17	(*)Obtención de información en Internet
D18	(*)Análisis crítico de hardware y software, elección de arquitecturas, sistemas, equipos y programas

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.	C9	D16 D17 D18

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 of presentation of the information.
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
Case studies	10	22.6	32.6
Problem solving	18	37.8	55.8
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
Case studies	Analysis of a real or fictitious (but realistic) fact, problem or situation with the purpose of knowing, interpreting, solving and / or generating hypotheses, contrasting data, reflecting, completing knowledge, debating, diagnosing and / or training in alternative solution procedures . Individual or group activity.
Problem solving	Performing individual or group work, raised during the face-to-face hours. They may require the student to document, reflect, and / or solve problems.
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
Case studies	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.
Problem solving	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.

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	
Case studies	The work developed by the students, individually or in groups, will be evaluated in the activities of study, analysis and debate of cases, situations and problems.	50	C9	D16 D17 D18
Problem solving	The students' work will be evaluated, individually or in groups, in the activities of carrying out work, problem solving, documentation and analysis. You can also evaluate the presentations of the work done in class.	40	C9	D16 D17 D18
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	C9	D16 D17 D18

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 final exam (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 Short answer tests

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=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 choose between two options to pass the subject:

1- Take the face-to-face examination that will be held in the School on the date established for official calls for the subject, and obtain a grade greater than or equal to 5 out of 10. This test may consist of short questions , of development, problems, or practical exercises on any subject of the subject.

2-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 face-to-face examination indicated in point 1 above. 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 Case Studies and Problem Solving; and "B" the grade obtained in the final face-to-face examination.

In any case, the student must inform the teacher which of the two options (1 or 2) he / she chooses to be evaluated in case of not following the continuous assesment.

IN CASE OF DOUBT,DISCREPANCY, ERROR OF TRANSLATION, INCOMPLETITUDE, INTERPRETATION, OR SIMILAR, THE CONTENT SPEFICIED 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., **Introdución ás bases de datos : un enfoque teórico-práctico**, 1, Servizo de Publicacións da Universidade de Vigo, 2012
Ministerio de Educación	Instituto de Tecnologías Educativas, **Internet, Aula Abierta 2.0**,
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
Subjects that continue the syllabus

New ICTs in E-commerce/V06M101V01205

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.