

The LEFIS Offer
First cycle
Several examples

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Introduction

The concretion of every study offer depends of the experiences and activities of every LEFIS partner. This book presents several concrete experiences of the LEFIS partners that are the references to build the typical LEFIS degree profiles in relation to the first cycle

This is the place, also, to present the plans: new learning and teaching proposals of the LEFIS partners that constitute the next LEFIS offer

The presentation is made here in relation with every LEFIS partner. Each presentation per partner is separated between the existent offer of LEFIS studies and the new proposals, when these exist

Each experience or proposal is presented here attending to:

- the respective title and function,
- objectives,
- learning outcomes & competences, including:
 - 1) a selection of the five key or main subject and generic LEFIS competences taken as reference in relation with the general characteristics of the experienced or proposed subject , and
 - 2) five subject specific competences and learning outcomes of the concrete experience or proposal
- contents, and
- workload and ECTS.
- and/or the planning form of educational modules

1. Austria, Danube University Krems

Cycle	Offered subjects
First cycle	Introduction to the Austrian E-Government Strategy

1.1 Introduction to the Austrian E-Government Strategy

1.1.1 Planing form

Program of Studies - Department offered: Danube University Krems

- University of Continuing Education

Name of the course unit: Introduction to the Austrian E-Government Strategy

Type of course (e.g. major, minor, elective): major

Level of the module /course unit (e.g. BA, MA, PhD): BA

Prerequisites:

Number of ECTS credits: 6 ECTS (average student working time: 180 hours)

Competences to be developed:

1. Introduction to the Austrian eGovernment model
2. Understanding and comparing different types of electronic signatures and ID management
3. Knowing the legal basis: eGovernment Act & other regulations
4. Analysing the main success factors and best practices in Austria and other European countries
5. Awareness of ICT potentials regarding administrative reform & innovation
6. Presenting information orally and by means of electronic media

Learning outcomes	Educational activities	Estimated student work time in hours	Assessment
To become acquainted with the basic essentials of eGovernment; its socio-political organisational, and technical aspects	Lectures.- Survey of eGovernment terminology, historical development, main strategies and policy, advantages, benefits and potential risks. How are fully electronic processes carried out.	2	Students must take a written examination and prepare a practical thesis. - The grades range from 5 to 1 (5 being insufficient). - The final grade is the average of the test, the practical thesis and its presentation; passing all parts is indispensable. - The exam consists of two comprehensive questions about the course topics. - The practical thesis can be developed together with
	Reading assignment on the lectures	4	
	Working in small groups	4	
	Personal reflection of themes presented in the lectures	5	
To retrieve information on electronic ID concepts and to classify different international solutions	Lectures.- Different concepts of online ID management and electronic signatures; comparing the Austrian Citizen Card concept (Online Identity) with other European approaches.	4	

	Reading assignment on the lectures	5	fellow students. It deals with a concrete example; preferably it is a case study related to the student's own workplace. The written work on the practice must
	Working in small groups (Comparison of the different online ID concepts in Europe)	10	
	Personal reflection of themes presented in the lectures	5	
To access legal norms and understand the legal basis of eGovernment	Lectures.- The Austrian eGovernment Act and other regulations, especially on electronic registers.	4	be presented in plenum by means of electronic media.
	Reading assignment on the lectures	5	
	Working in small groups	10	
	Personal reflection of themes presented in the lectures	5	
To evaluate and compare electronic government strategies.	Lectures. - Austrian and international eGovernment strategies. Analysis of main success factors, best and worst practices.	3	

	Reading assignment on the lectures	10	
	Working in small groups	5	
	Personal reflection of themes presented in the lectures	5	
To convert electronic projects in public administration. To enhance social competence by teamwork. To make competent use of advanced electronic media.	Lectures.- Raising awareness of innovation potential regarding administrative reform via ICT: Development and implementation of concrete solutions.	3	
	Reading assignment on the lectures	5	
	Working in small groups	6	
	Personal reflection of themes presented in the lectures	10	
	Presentations of different eGovernment strategies (in pairs)	10	
	Preparation of the final written report	55	
	Preparation of the final exam	5	

180 hours

100%

2. Belgium, K.U. Leuven, Faculty of Law

Cycle	Offered subjects
First cycle	Computer Law

2.1 Computer Law

An optional course in the Bachelor in Law

2.1.1 Objectives

- Introduction to the use of ICT in the juridical praxis
- Introduction to the critic reflection on the use of ICT by the jurist in the knowledge society

2.1.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1. Presenting information visually and orally 2. Producing Written Reports 3. Using ICT in research 4. Understanding of data protection 5. The Characteristics of the Information Society	1. Decision-making 2. Elementary computing skills (word processing, database, other utilities) 3. Interpersonal skills 4. Critical and self-critical abilities 5. Ethical commitment

Subject specific competences and learning outcomes		
Rating of	Short name of the subject specific	Extended description of the

importance order	competence	competence.- Learning outcomes
1	Understanding of data protection	To know basic concepts of regulation on software protection, electronic commerce, electronic signature and computer crime in relation with personal information (data protection)
2	The Characteristics of the Information Society	To know the liability of intermediary Internet service providers
3	Using ICT in research	To learn to understand and work with basic tools useful to lawyers (esp. legal databases and network tools)
4	Producing Written Reports	To made practical work
5	Presenting information visually and orally	To know basic computer skills and knowledge of how it works. Internet browser. HTML

2.1.3 Content

- The consequences of the use of ICT in legal practice
- Examples on the use of ICT
 - Electronic signature
 - Internet
 - Hertzian communication
 - Digital television
 - Management and systems
 - Databases and data mining
 - E-Government
- Review of legal concepts as notification, suspicion, objection, control
- Legal solutions
- Changes of legal procedures with the use of ICT

2.1.4 Workload and ECTS

6 Credits= 60 hours teaching

- Text book

- Syllabus
- Tutorials
- Slides
- Examination:
 - **Examination type:**
oral with written preparation
 - **When?:** final examination during examination period
 - **Evaluation type:**
Closed book
Open book

3. Belgium, University of Notre Dame de la Paix, Namur

Cycle	Offered subjects
First cycle	Bachelor Graduate/Licentiate in Law: ITC lectures integrated in general courses Introduction to Legal Informatics Computer Law

3.1 Bachelor in Law (Bachelier en Droit) 3 years

3.1.1 Objectives

- General objective of the curriculum:
 - The Bachelor curriculum aims at providing a complete coverage of the necessary basic legal topics = the “basics” (courses aiming at specialization are in principle reserved for the Master programme)

- To allow direct access to labour market
 - To understand and take into account the environment in which law is created and applied
 - Multidisciplinary education including complementary disciplines
 - At least half of Belgian case-law and publications are in Dutch – English is the language of international institutions (legal terminology)
 - Support and accompaniment towards success and autonomy in studies
 - To enhance exchange between Belgian Communities
- Particular objective relate to ICT and Information Society Law as a subject of courses
 - ICT aspects are increasingly integrated as specific aspects within general courses
- e.g.:
- Contract Law – digital signature
 - Criminal Law – computer crime
 - Intellectual Property – DRM
- Legal Methodology (course includes the finding of up to date acts, case-law and other documents by using legal databases and web-sites)

3.1.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1. Application of legal texts in context 2. Information Technology Law 3. Accessing legal texts 4. Interpretation of legal texts in context 5. Presenting information visually and orally	1. Decision-making 2. Oral and written communication in your native language 3. Ethical commitment 4. Elementary computing skills (word processing, database, other utilities) 5. Interpersonal skills

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Application of legal texts in context	To be able to distinguish several kind of juridical application
2	Interpretation of legal texts in context	To have knowledge on the different juridical texts interpretation methods
3	Presenting information visually and orally	To be able to present and defend arguments
4	Accessing legal texts	To be able to search legal documentation
5	Information Technology Law	To have knowledge on basic computer law

3.1.3 Contents

Theory

- **Mandatory courses**
 - e.g. Constitutional Law, Obligations / Contract Law, Sources and
 - Principles of Law, Criminal Law, Family Law, Legal Methodology, Legal Terminology, Procedural Law, EU Institutions, property, Administrative Law, Commercial Law, Social Law, Liberties, Roman Law
 - Economics, Philosophy, Psychology, Sociology, History of Constitution and of Belgian Institutions
 - Excellent languages skills (legal terminology included) in English and Dutch
- **Optional courses**
 - e.g. German Legal Terminology, Specific issues of State and Administrative Law (NL), Legal Culture of the English Speaking World (UK)

Practices.- All over the year : “practical works” sessions , tutoring sessions

3.1.4 Workload and ECTS

180 ECTS (60 per year)

- Case law. readings
- Elaboration of papers (2nd and 3rd year)
- House work
- Tutoring sessions
- Written exams / tests

3.2 Introduction to Legal Informatics (Introduction à l'informatique)

A Specific optional course on ICT and Information Society Law that every student in the University of Namur may chose (in second or third year) to complete the credits they need to finish their degree.

3.2.1 Objectives

- Introduction to computer science terminology. Basic concepts of hardware, software, networks and databases To learn to understand and work with basic tools useful to lawyers (esp. legal databases and network tools)

3.2.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1. Presenting information visually and orally 2. Producing Written Reports 3. Using ICT in research 4. Understanding of data protection 5. The Characteristics of the Information Society	1. Decision-making 2. Elementary computing skills (word processing, database, other utilities) 3. Interpersonal skills 4. Critical and self-critical abilities 5. Ethical commitment

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Using ICT in research	To learn to understand and work with basic tools useful to lawyers (esp. legal

		databases and network tools)
2	The Characteristics of the Information Society	To know Informatics logical standards (MS Office and similar)
3	Presenting information visually and orally	To know basic computer skills and knowledge of how it works. Internet browser. HTML
4	Understanding of data protection	To know basic concepts of hardware, software, networks and databases
5	Producing Written Reports	To made practical work

3.2.3 Contents

- Basic computer skills and knowledge of how it works. Internet browser. HTML
- Informatics logical standards (MS Office and similar)

3.2.4 Workload and ECTS

30 h (theory) – 3 ECTS • Tutorials

- Questionnaires
- Slides
- Readings and cases
- Practical work
- Examination:
 - Students must do an oral exam (theory, oral presentation of the practice).

3.3 Computer Law

A Specific optional course on ICT and Information Society Law that every student in the University of Namur may choose (in second or third year) it to complete the credits they need to finish their degree.

3.3.1 Objectives

- Overview of legal issues raised by development of informatics and communications networks

3.3.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
<ol style="list-style-type: none"> 1. Presenting information visually and orally 2. Producing Written Reports 3. Using ICT in research 4. Understanding of data protection 5. The Characteristics of the Information Society 	<ol style="list-style-type: none"> 1. Decision-making 2. Elementary computing skills (word processing, database, other utilities) 3. Interpersonal skills 4. Critical and self-critical abilities 5. Ethical commitment

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Understanding of data protection	To know basic concepts of regulation on software protection, electronic commerce, electronic signature and computer crime in relation with personal information (data protection)
2	The Characteristics of the Information Society	To know the liability of intermediary Internet service providers
3	Using ICT in research	To learn to understand and work with basic tools useful to lawyers (esp. legal databases and network tools)
4	Producing Written Reports	To made practical work
5	Presenting information visually and orally	To know basic computer skills and knowledge of how it works. Internet browser. HTML

3.3.3 Contents

- Normative aspects of:
 1. software protection and liability of intermediary Internet service providers
 2. electronic commerce,
 3. electronic/ digital signature,
 4. computer crime

3.3.4 Workload and ECTS

3 ECTS = 30 hours

- Tutorials
- Laboratory
- Practical work
- Readings and cases

4. The Czech Republic, University of Hradec Kralove

- New proposals

Cycle	Offered subjects
First cycle	Bachelor Degree Programme in Information Management

4.1 Bachelor Degree Programme in Information Management

- The bachelor degree programme in Information Management is offered by the Faculty of Informatics and Management of the University of Hradec Kralove, Czech Republic.
- The Faculty of Informatics and Management educates university-qualified professionals for a broad range of opportunities in the private and state sectors. Students can choose one of five specializations in a Bachelor’s degree programme and after graduation they can continue studying in the two-year Master’s degree programme which can be undertaken directly at the Faculty, at other colleges in the Czech Republic, or abroad. The Faculty also provides a five-year Master’s degree programme in Information Management.
- Apart from the programmes delivered in Czech, there are also two Bachelor’s degree programmes in Information Management and Applied Informatics and a follow-up two-year Master’s degree programme in Information Management. These are delivered in English. Economic-management skills are an integral part of all

fields of studies, along with a heavy emphasis put on the effective use of modern information technologies.

4.1.1 Objectives

- Particularly well suited to students who wish to understand the problems of information management systems with quantitative precision.
- Preparation for graduate study in information management, while at the same time providing students with a competitive advantage in the labour market directly after graduation.
- A number of elective subjects are included in the curriculum so that the student may concentrate on management, information technology or operations research.
- As an integral part of compulsory / elective subjects a number of law oriented subjects are offered as well (Introduction to Law, Corporate Law, Law and IT).

4.1.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1. Understanding of Professional ICT practice and business structure	1. Elementary computing skills (word processing, database, other utilities)
2. Understanding of data protection	2. Decision-making
3. The physical and virtual structure of the internet	3. Interpersonal skills
4. Presenting information visually and orally	4. Knowledge of a second language
5. Producing Written Reports	5. Ability to work in an interdisciplinary team

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Understanding of Professional ICT practice and business structure	To know how to use information and knowledge resources of various types in the Information Society. To know how to use e-technologies in commerce and business correctly and safely.
2	Understanding of data protection	To know basic concepts of regulation on software protection, electronic commerce, electronic signature and computer crime in relation to personal information
3	The physical and virtual structure of the internet	To understand how to use the internet resources and services safely and in an optimal way.

4	Presenting information visually and orally	To be able to present and defend arguments of various types
5	Producing Written Reports	To know how to elaborate reports and papers on the different subjects

4.1.3 Contents

The following subjects are compulsory in the bachelor programme Information Management:

- Algorithms and Data Structures
- Applied Information Technology
- Computer Architecture I and II
- Computer Networks
- Corporative Law
- Database Systems I and II
- Fundamentals of Marketing
- Introduction to Law
- Introduction to Accounting
- Introduction to Object Modelling
- Knowledge-Based Technologies I and II
- Logistics
- Macroeconomics I
- Mathematics I and II
- Methods of Operational Research I
- Microeconomics I
- Object Modelling I and II
- Operation Systems
- Principles of Computers
- Principles of Management I and II

- Professional English I, II, III, IV, V, and VI
- Programming I, and II
- Psychology I and II
- Statistical Methods
- Technologies for WEB Publishing I and II
- Theory of Systems I and II

The following subjects are, among others, elective for the Information Management programme:

- Business Policy
- Computer Graphics I and II
- Law and Information Technologies
- Logic Programming I and II
- Managerial Communication Skills
- Multimedia Systems I and II
- Optional Seminar in English I and II
- Programming III
- Project Management

4.1.4 Workload and ECTS

- 180 ECTS
- Bachelor thesis
- Final state exam with the bachelor thesis defense

5. Germany, University of Münster

Cycle	Offered subjects
First cycle	Electronic Government

5.1 Electronic Government

5.1.1 Planing form

Programme of Studies.- Department offert . ITM, WWU Münster

Name of the course unit .- Electronic Government

Type of course (e.g. major, minor, elective) .- Elective

Level of the module /course unit (e.g. BA, MA, PhD) .- BA

Prerequisites

Number of ECTS credits.- 6 ECTS (average student working time: 180 hours)

Competences to be developed

- 1 Presenting information visually and orally
- 2 Information Technology Law
- 3 Accessing legal texts
- 4 Interpretation of legal texts in context
- 5 Application of legal texts in context

Learning outcomes	Educational activities	Estimated student work time in hours	Assessment

To understand the underlying principles of e-government	Lectures.- Introduction to the electronic administration: <ul style="list-style-type: none"> • History and development • Basic concepts and policies • Relate basic principles of governance as for example 'transparency' to the specific needs of e-governance • Advantages, benefits and risks • Policies and strategies. Overview on the management of e-government on national and EU-level by reference to a specific country and the policy of the European Commission. 	5 hours	Students must do a written exam and a practical work -The grade is between 1 and 10, passing who obtains five points at least -The grade is the average of the written exam, the oral presentation of the practice and the written work on the practice, being indispensable to pass the written exam
	Reading assignment on the lectures	5 hours	-The written exam consists on
	Working in small group	3 hours	two questions about the program
	Personal reflection of themes presented in the lectures: What constitutes good governance? What would constitute good e-governance in particular? When is a country ready to be e-governed?	10 hours	-The practical work consists on the evaluation of an electronic government

To classify and distinguish the different aspects and applications of electronic government services	<p>Lectures.</p> <p>Outline on the different fields of application/problem areas of e-government:</p> <ul style="list-style-type: none"> • e-government and democracy: e-voting and e-justice • e-administration and citizenship relationship management • e-procurement by public services • digital signatures/procedural problems • Technical problems 	5 hours	<p>website</p> <p>-The minimum extension of the written work on the practice is 5000 words</p>
	Reading assignment on the lectures	5 hours	
	Working in small group	3 hours	
	<p>Personal reflection of themes presented in the lectures:</p> <p>What are the limits of e-government?</p> <p>Risks of abuse?</p> <p>Is every field of administration equally fit to be e-governed?</p>	10 hours	

To obtain the necessary legal background to analyse measures of e-government	<p>Lectures.-</p> <p>e-democracy from a constitutional point of view</p> <p>The law of data protection and security measures in</p> <ul style="list-style-type: none"> • Citizen relationship management • e-voting • security of electronic communications • consent and computer specialist activities • Practice codes 	10 hours	
	Reading assignment on the lectures	5 hours	
	Working in small group	3 hours	
	<p>Personal reflection of themes presented in the lectures:</p> <p>Is the present legal framework sufficient ?</p>	5 hours	

To research and evaluate information on e-government	Lectures.- <ul style="list-style-type: none"> • Analysis and discussion of specific examples of e-government: Case study in class • Documenting the environment and the socio-political and juridical frames • Elaboration of a model for analysis and evaluation of e-government websites • Application of this model to portals and services 	10 hours	
	Reading assignment on the lectures	10 hours	
	Working in small group	3 hours	
	Personal reflection of themes presented in the lectures, comments on the model elaborated in class	20 hours	
To know the state of development of e-government and to develop it actively based on the knowledge gained in the lectures before	Lectures.- Outlook in the future <ul style="list-style-type: none"> • Which legal developments are to expect? • M-gouvernement? 	5 hours	
	Reading assignment on the lectures	5 hours	
	Working in small group	3 hours	

	Personal reflection of themes presented in the lectures: Which legal developments are desirable?	10 hours	
	15 panels on presentations of different cases of electronic government	30 hours	
	Preparation of the final written report	10 hours	
	Preparation of the final exam	5 hours	
		180 hours	100%

6. Italy, University of Bologna

Cycle	Offered subjects
First cycle	<u>Operator in IT and law</u> Law Operator in the enterprise Consultant in Labour law <u>Law sciences (Legal Informatics and IT for the Law professions)</u> Computer forensics, Legimatics AI and law Basic skills Science of Internet Telecommunication Law Management Engineering

6.1 Operator in IT and law

First cycle degree offered by the Faculty of Law of Bologna

6.1.1 Objectives

- To provide the market with a law operator who is able to integrate legal knowledge with ICT capabilities and insight to manage the penetration of ICT in any sector of law studies and practices, e.g.:
 - software houses
 - law firms
 - public administration
 - law enforcement agencies
- To give the student an interdisciplinary preparation in computer law and legal informatics
- To give the students an international vision and foreign languages skills

6.1.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1. Information Technology Law 2. The Characteristics of the Information Society 3. Understanding of Professional ICT practice and business structure 4. Understanding of data protection 5. Producing Written Reports	1. Decision-making 2. Critical and self-critical abilities 3. Elementary computing skills (word processing, database, other utilities) 4. Ethical commitment 5. Interpersonal skills

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Information Technology Law	To know the basics on Informatics and Law
2	The Characteristics of the Information Society	To know the use and application in the information society of the technical

		informatics resources
3	Understanding of Professional ICT practice and business structure	To know how to use the social sciences resources in the Information Society
4	Understanding of data protection	To know the relevance of data protection and another information law or in freedom and security, or e-commerce or in the european regulation
5	Producing Written Reports	To know how to elaborate reports and papers on the different subjects

6.1.3 Contents

- First year (63 credits)
 - Legal informatics
 - General theory of law
 - Private law
 - Constitutional law
 - Introduction to informatics
 - Political and enterprise economy
 - Computer lab
 - Foreign languages
- Second year (60 credits)
 - Advanced legal informatics
 - Advanced general theory of law
 - Commercial law
 - Administrative law
 - Algorithms and programming
 - Data bases and information systems
 - Computer lab
 - Foreign languages

- Optional courses
- Third year (57 credits)
 - Computer law
 - Advanced computer law
 - Civil law or Judiciary organization
 - Computer lab
 - Foreign languages
 - Optional courses
 - Focused seminars
 - Internship
 - Final thesis

6.1.4 Workload and ECTS

180 ECTS

Case law, readings

Conferences

Tutoring sessions

Lectures

Examens

Final Thesis

6.2 E-governance

Second cycle degree offered by the Faculty of Law (Ravena)

6.2.1 Objectives

- To provide the public administration at large with innovation actors in the legislative, organizational and technological fields in a European context
- To put on the market professionals in e-governance solutions (i.e. providers of legislative and ICT solutions in a well defined political framework)
- To give the students a deep understanding of the links between different branches of law (administrative, constitutional, private) and organizations and ICT solutions
- To reinforce the international vision and the foreign languages skills of the students

6.2.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1. Application of legal texts in context 2. Information Technology Law 3. Accessing legal texts 4. Interpretation of legal texts in context 5. Presenting information visually and orally	1. Decision-making 2. Ethical commitment 3. Oral and written communication in your native language 4. Elementary computing skills (word processing, database, other utilities) 5. Interpersonal skills

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Presenting information visually and orally	To present practically several examples on e government
2	Information Technology Law	To classify the electronic government services from different approaches
3	Accessing legal texts	To search and retrieval the adequate

		information on e government
4	Interpretation of legal texts in context	To know the basic principles of the normative that governs the use of the ICT in the relationships with the electronic government
5	Application of legal texts in context	To know the state of development of the provision of administrative services with the aid of the information and communication technologies (ICT): "electronic government"

6.2.3 Contents

- First year (58 credits)
 - Informatics for e-government
 - Theory of e-governance
 - Theory and techniques of legislation
 - Administrative law in the Information society
 - Models of e-governance
 - Economy of the enterprise and of innovation
 - Legislative language
 - History of modern codification
 - Free courses
- Second year (62 credits)
 - Digital processing of legal information
 - Information system for e-government
 - Sociology of law and e-governance
 - Theory of e-governance
 - Digital contract law
 - Comparative public law
 - Free courses
 - Internship

- Thesis

6.2.4 Workload and ECTS

120 ECTS

Case law, readings

Conferences

Tutoring sessions

Lectures

Exams

Final Thesis

6.3 Legal Informatics

Subject in the degree of Legal Sciences (first cycle), Jurisprudence (second cycle) and Laurea magistralis in Law (second cycle), offered by the Faculty of Law

6.3.1 Objectives

- To put into effect the context of the society of the information in the legal area,
- To know the legal aspects of the new technologies
- To know the legal problems of computer science.

6.3.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1. Information Technology Law	1. Decision-making
2. The Characteristics of the Information Society	2. Critical and self-critical abilities
3. Understanding of Professional ICT practice and business structure	3. Elementary computing skills (word processing, database, other utilities)
4. Understanding of data protection	4. Ethical commitment
5. Producing Written Reports	5. Interpersonal skills

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Information Technology Law	To know the basics on Informatics and Law
2	The Characteristics of the Information Society	To know the use and application in the information society of the technical informatics resources
3	Understanding of Professional ICT practice and business structure	To know how to use the social sciences resources in the Information Society
4	Understanding of data protection	To know the relevance of data protection and another information law or in freedom and security, or e-commerce or in the european regulation
5	Producing Written Reports	To know how to elaborate reports and papers on the different subjects

6.3.3 Contents

- Information systems and organization
- Hardware systems architecture
- Software systems architecture
- Network systems architecture
- Expert systems and AI
- Legal knowledge bases
- Trade secrets and proprietary information
- Intellectual property
- Software contracts and software reuse
- E-commerce and e-governance
- Information privacy and computer security
- Electronic document
- Computer forensics

6.3.4 Workload and ECTS

6 ECTS

Case law, readings

Conferences

Tutoring sessions

Lectures

Exams

6.4 IT for the Law professions

Subject in the degree of Legal Sciences (first cycle), Jurisprudence (second cycle) and Laurea magistralis in Law (second cycle), offered by the Faculty of Law

6.4.1 Objectives

- The course deepens some particularly important aspects of legal computer science for the professional of the Law.
- It is proposed to supply to the student cognitive instruments to use in order to employ in aware and active way the legal applications of computer science and in order to face the legal-informed problems to the development of professions lawyers and judges

6.4.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1. Application of legal texts in context 2. Information Technology Law 3. Accessing legal texts 4. Interpretation of legal texts in context 5. Presenting information visually and orally	1. Decision-making 2. Ethical commitment 3. Oral and written communication in your native language 4. Elementary computing skills (word processing, database, other utilities) 5. Interpersonal skills

Subject specific competences and learning outcomes		
Rating of	Short name of the subject specific competence	Extended description of the

importance order		competence.- Learning outcomes
1	Presenting information visually and orally	To present practically several examples on e government
2	Information Technology Law	To classify the electronic government services from different approaches
3	Accessing legal texts	To search and retrieval the adequate information on e government
4	Interpretation of legal texts in context	To know the basic principles of the normative that governs the use of the ICT in the relationships with the electronic government
5	Application of legal texts in context	To know the state of development of the provision of administrative services with the aid of the information and communication technologies (ICT): "electronic government"

6.4.3 Contents

- IT for the lawyer
 - Basic ICT resources
 - Software and communication tools
 - Documents, archives and data bases
 - Privacy and security
 - Web support to transactions and decisions
 - Access to registries and data banks
 - Internet supported legal services
 - Computer forensics

- IT for the judiciary
 - Legal informatics
 - Information systems for the judiciary
 - Decisions and management of lawsuits
 - E-government and public administration

- Privacy issues
- Web information services
- IT supported investigation

6.4.4 Workload and ECTS

7 ECTS

Case law, readings

Conferences

Tutoring sessions

Lectures

Examens

7. Netherlands, Erasmus University Rotterdam

Cycle	Offered subjects
First cycle	Computer Law in International Perspective Legal Knowledge Management

7.1 Computer Law in International Perspective

A course for international students in (master) graduate level (Language: English)

7.1.1 Objectives

- Rational approach of legal questions in the ‘information society’
- Understanding information technology
- Understanding the ‘information society’

- The legal qualification of (electronic) data

7.1.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
<ol style="list-style-type: none"> 1. Characteristics of the Information Society 2. Understanding of data protection 3. Understanding of electronic signature 4. Interpretation of legal texts in context 5. Application of legal texts in context 	<ol style="list-style-type: none"> 1. Critical and self-critical abilities 2. Ability to work in an interdisciplinary team 3. Capacity to adept to new situations 4. Basic knowledge of the field of study 5. Capacity for applying knowledge in practice

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Characteristics of the Information Society	To understand the technological and societal developments, and to place these developments in a legal context.
2	Understanding of data protection	To know basic concepts of regulation on (electronic) data in intellectual property law, electronic commerce, privacy law and computer crime.
3	Understanding of electronic signature	To know basic concepts of cryptography and to understand the legal implications.
4	Interpretation of legal texts in context	To understand how to interpret legal texts in the 'information society'.
5	Application of legal texts in context	To know how to implement legal texts in concrete and practical situations.

7.1.3 Content

- characteristics of the 'information society'
- legal topics :
 - legal qualification of electronic data files
 - the digital agenda in intellectual property rights
 - chips protection

- software protection
- database protection
- copyright enforcement on the internet
- e-commerce
- privacy
- crime
- the special(?) position of providers
- international perspective
 - EU and US legislation
(CoE, OECD, WIPO ...)
 - similar technological developments & applications
 - market economy

7.1.4 Workload and ECTS

6 ECTS

- Lectures
- Research work
- Exam

7.2 Legal Knowledge Management

A course also available for international students in (master) graduate level (Language: English)

7.2.1 Objectives

- Obtaining a theoretical framework for legal ICT
- Learning to use certain legally relevant computer applications
- Becoming familiar with empirical legal research ('jurimetrics')

- Learning to use simple statistical methods to understand legal data better

7.2.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1. ICT and the Changing Legal Professions in The Information Society 2. Using ICT in research 3. Accessing legal texts 4. Presenting information visually and orally 5. Investigative Social Science Methods	1. Research skills 2. Elementary computing skills (word processing, database, other utilities) 3. Critical and self-critical abilities 4. Capacity for analysis and synthesis 5. Capacity for applying knowledge in practice

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	ICT and the Changing Legal Professions in The Information Society	Understanding the importance of information and knowledge management for legal practitioners
2	Using ICT in research	Learning to use computer applications to increase and manage legal information and knowledge
3	Accessing legal texts	Learning to search electronic databases for relevant information efficiently
4	Presenting information visually and orally	Reporting the results of research projects in written form as well as orally (by means of an electronic presentation in class)
5	Investigative Social Science Methods	Learning how for instance simple statistical procedures can be of advantage to legal researchers and practitioners.

7.2.3 Content

- Differences between data, information and knowledge
- The importance of knowledge management
- Using IT to manage information and knowledge
- Working with different types of data
 - Texts (storage and retrieval, databases)

- Numbers (performing calculations, drawing conclusions)
- Graphics (clarifying numeric data, presenting data to an audience)
- Information infrastructures – the internet and other communication tools
- Using statistics in legal research – jurimetrics, predicting the outcome of cases.

7.2.4 Workload and ECTS

6 ECTS

- Lectures
- Research work / assignments
- Exam

8. Norway, Faculty of Law, University of Oslo

Cycle	Offered subjects
First cycle	Bachelor in Democracy and Individual Rights in the Information Society (E Government)

8.1 Bachelor in Democracy and Individual Rights in the Information Society (E Government)

Organised by the Section for Information Technology and Administrative Systems. Faculty of Law. University of Oslo

8.1.1 Objectives

- Bachelor degree

8.1.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
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<ol style="list-style-type: none"> 1. General understanding of ICT's impact on law 2. General understanding of ICT's impact on organizations 3. ICT and rule of law 4. ICT and data protection 5. ICT, access to government-held information and democracy 6. Mastering a multi-disciplinary approach 	<ol style="list-style-type: none"> 1. Critical and safe information search and retrieval 2. Presenting information visually and orally 3. Producing Written Reports 4. Critical-constructive approach 5. Team/project work 6. Ethical commitment
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Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	General understanding of ICT's impact on law	ICT's impact on public administrative law and related legal questions
2	General understanding of ICT's impact on organizations	Organisational consequences and conditions related to development of information systems
3	ICT and rule of law	Introduction to automated decision-making and legal requirements
4	ICT and data protection	Introduction to data protection theory; possible consequences for information systems in public sector
5	ICT, access to government-held information and democracy	Introduction to the freedom of information principle and possible consequences for information systems in public sector
6	Mastering a multi-disciplinary approach	Ability to understand how law, computer science and social science may be applied to analyse questions regarding electronic government.

8.1.3 Content

Mandatory, joint courses (total 50 ECTS):

- Data protection
- Automated decision-making
- E-democracy and freedom of information

Mandatory, basic university courses (20 ECTS)

Optional, from a restricted number of courses (total 60 ECTS):

- Law (various, minimum 20 ECTS)

- Social Science (various, minimum 20 ECTS)
- Computer Science (various, minimum 20 ECTS)

Optional, unrestricted choice (total 50 ECTS):

Specialisation within law, social science and/or computer science (30 ECTS)

Miscellaneous courses (20 ECTS)

Project report (20 ECTS, included in mandatory joint courses)

- Practical and real case
- Duration of appr. 5 months
- Group work (3 – 5 students)
- Oral examination on basis of project report

8.1.4 Workload and ECTS

180 ECTS, three years

- Lectures
- Seminars and conferences
- Teamwork with written reports
- Final project report

9. Poland, Nicolaus Copernicus University in Torun

Cycle	Offered subjects
First cycle	Computers for Law students Comparative Law

9.1 Computer for Law students

Compulsory course for all law students

9.1.1 Objectives

- Introduction to computer science terminology. Basic concepts of hardware, software, networks and databases To learn to understand and work with basic tools useful to lawyers (esp. legal databases and network tools)

9.1.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1. Presenting information visually and orally	7. Decision-making
2. Producing Written Reports	8. Elementary computing skills (word processing, database, other utilities)
3. Using ICT in research	9. Interpersonal skills
4. Understanding of data protection	10. Critical and self-critical abilities
5. The Characteristics of the Information Society	11. Ethical commitment

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Using ICT in research	To learn to understand and work with basic tools useful to lawyers (esp. legal databases and network tools)
2	The Characteristics of the Information Society	To know Informatics logical standards (MS Office and similar)
3	Presenting information visually and orally	To know basic computer skills and knowledge of how it works. Internet browser. HTML
4	Understanding of data protection	To know basic concepts of hardware, software, networks and databases
5	Producing Written Reports	To made practical work

9.1.3 Contents

- Basic computer skills and knowledge of how it works. Internet browser. HTML
- Informatics logical standards (MS Office and similar)

9.1.4 Workload and ECTS

3 ECTS

- Slides
- Practical work
- Examination:

9.2 Comparative Law

9.2.1 Objectives

- All subjects offered in English
- Target group: Socrates students

9.2.2 Learning outcomes & competences

9.2.3 Contents

- Comparative Criminal Procedure
- Electronic evidence,
- Child pornography in the European Perspective
- For the future, new topics:
 1. Consumer protection in cyberspace - formation of contracts
 2. Protection of consumers in contracts negotiated at a distance.
 3. Protection against misleading and unfair advertising on Internet
 4. Protection of collective consumers interests - unfair e-commerce

9.2.4 Workload and ECTS

1. Seminar on criminal procedure, 60 hours (11 ECTS)

4 hours on ict issues:

2 hours: protecting Intellectual Property with criminal procedure (presentation and discussion)

2 hours: electronic evidence in criminal procedure (presentation and discussion)

2. Comparative criminal procedure course, total: 15 hours

2 hours on ICT issues:

electronic evidence with a particular stress on computer simulations and animations (presentation and discussion)

3. Learning material.- <http://158.75.15.5/KPK/>

10 Slovenia, Faculty of Management Koper

Cycle	Offered subjects
First cycle	University study programme Management

10.1 University study programme Management

- Degree awarded: “diplomirani ekonomist” equiv. to Bachelor of Arts in Economics – BA Econ.

10.1.1 Objectives

- Practically oriented
- Emphasis on the applicability of skills related to economics, business, law, and organizational sciences

- Third year students have to complete in-company practical training in a chosen company
- Graduates are trained to occupy responsible managerial positions in companies and institutions

10.1.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
<ol style="list-style-type: none"> 1. Presenting information visually and orally 2. Producing Written Reports 3. Using ICT in research 4. Understanding of data protection 5. Understanding of Professional ICT practice and business structure 	<ol style="list-style-type: none"> 1. Decision-making 2. Elementary computing skills (word processing, database, other utilities) 3. Basic knowledge of the profession 4. Critical and self-critical abilities 5. Knowledge of a second language

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Presenting information visually and orally	To be able to present and defend legal arguments
2	Producing Written Reports	To know how to elaborate reports and papers on the different subjects
3	Using ICT in research	To know how to use the social sciences resources in the Information Society
4	Understanding of data protection	To know the relevance of data protection and other information law or in freedom and security, or e-commerce or in the European regulation
5	Understanding of Professional ICT practice and business structure	To indicate how to make electronic business in a safe way and fitted into the law-order

10.1.3 Content

- IT law ---->SUBJECTS:
 - E-commerce (6 ECTS)
 - E-education (6 ECTS)
- TOPICS: copyright, personal privacy, computer crime, personal data on the web

10.1.4 Workload and ECTS

- ECTS: 180 (30 electives)
- Structure: 22 subjects, seminar papers, thesis

11 Spain, University of La Laguna

Cycle	Offered subjects
First cycle	Fourth year of the Law Degree

11.1 Fourth year of the Law Degree

Experiences to apply the TUNING methodology in relation with ECTS

11.1.1 Objective

- To find solution to these facts:
 - There was a very high number of students.
 - But they attended neither lectures, nor exams.
 - The average time to finish the degree was 8 years, although the “planned” time is 5 years.
- And then... the ULL opened the possibility to its different Schools and Faculties to start applying the ECTS system under certain conditions (pilot project).
- 4 of the teachers involved in the fourth year of the degree decided to start preparing the new model. Finally, all of us (6) are applying it.

11.1.2 Learning outcomes & competences

		TEACHER ACTIVITY		STUDENT WORKLOAD			
A	Types of teaching	Content	Class hours per week	Competences	Attendance time per week (AT)	Students' workload per week (WT)	Total hours per year (T= AT + WT) x n° weeks
	Lectures	Theoretical explanation	2	Developing knowledge concerning theory. Ability to pose problems	2	3	150
	Case solving	Study and solving of cases	1	Capacity for applying knowledge in practice	1	0,75	52,5
	Meetings Films	Lectures by different kind of lawyers. Films Class discussion	0,25	Understanding of real problems	0,25	1	37,5
B	Tutorial (groups) Compulsory	Team work. Practical questions' solving	2	Capacity to work in team, ability to pose problems, to achieve solutions	0,25	0,25	15
	Tutorial (individual)	Individual assistance to the student	-	Ability to pose problems, to achieve solutions	-	-	-
C	Assessment (written exam –case-, portfolio and class participation)	Assessment of the learning outcomes achieved by the student					16,5
	TOTAL		5,25		3,50	5	271,5

11.1.3 Content

- The model is being applied in the 4th year of the Law degree, which has 6 subjects (or course units, in Tuning's wording)
 - Administrative Law
 - Civil Law
 - Commercial Law
 - Labour Law
 - Procedure Law
 - Tax Law
- Each subject (course unit) has 10 ECTS (27'15 hours each ECTS), adding A + B + C

11.1.4 Workload and ECTS

- The teachers keep what they considered positive aspects of the old model (eg: lectures, but less). At the same time, they have started helping students to learn autonomously
- They have emphasized case solving
- They have planned other activities (films, visits to the Courts, different kind of lawyers as guests...)
- They have organised small working-tutorial groups. They meet each teacher every two weeks (1/2 hour)
- They are using different types of assessment (portfolio [40 %] plus two written exams –cases– per year and subject [40 %] plus class participation [20%])
- Blogs have been very useful for planning and developing this new model (<http://derecho.ull.es/ects/>).

- To make easier the planning of students' activities
- To explain cases
- To give students previously selected information

11.1.5 Planing form

Programme of Studies.- Official offer: Licenciado en Derecho (University of La Laguna)

Name of the course unit.- Civil Law III

Type of course (e.g. major, minor, elective).- Compulsory

Level of the module /course unit (e.g. BA, MA, PhD) .- BA

Prerequisites: Have already passed Roman Law, Civil Law I and Civil Law II.

Number of ECTS credits.- 10 ECTS (each ECTS: 27'5 student working time; average student working time: 275 hours)

Competences to be developed

- 1 Developing knowledge concerning theory
- 2 Communicate written and orally in their own language
- 3 Ability to work in team
- 4 Capacity for applying knowledge in practice
- 5 Ability to pose questions

Learning outcomes	Educational activities	Estimated student work time in hours	Assessment

To identify the rights in rem.	Lectures.- Introduction to rights in rem : characteristics, types, structure.	5 hours	Students must do two written exams (at the end of each semester) that consist in solving a practical case. They must also complete a portfolio. -The grade is between 1 and 10, passing who obtains five points at least
	Reading assignment on the lectures	5 hours	
	Working in small group	5 hours	
	Personal reflection of themes presented in the lectures	10 hours	
To identify the absolute rights in rem, ways of acquisition and extinction. Means of protection	Lectures.- Possession and property. Usucapio, injunctions, actions to protect property. Special properties	15 hours	-The grade is obtained by the mark of the written exams (40 % of the grade), the mark of the portfolio (40 % of the grade) and the class participation (20 % of the grade). The portfolio consists of two parts : a
	Reading assignment on the lectures	5 hours	
	Working in small group: powerpoint presentations on special properties	5 hours	
	Case solving	5 hours	
	Personal reflection of themes presented in the lectures	20 hours	

To distinguish absolute and limited rights in rem	Lectures.- Usufruct, time-sharing, easement, right of superficies. Concept, characteristics, creation and extinction	15 hours	compulsory one, where the student must include the conceptual maps requested by the teacher, as well as the cases that have been solved in the classroom. The optional part, where he/she may include whatever materials they consider interesting or important to study and to work the different topics.
	Case solving	5 hours	
	Reading assignment on the lectures	5 hours	
	Working in small group	5 hours	
	Personal reflection of themes presented in the lectures	25 hours	
To identify the security rights over movable and immovable items	Lectures.- Mortgage and pledge. Concept and characteristics. Mortgage over movables and pledge without transfer of possession	15 hours	
	Case solving and analysis of Courts' decisions	5 hours	

	Working in small group	5 hours	
	Personal reflection of themes presented in the lectures	30 hours	
To know the basic principles of the Land Register	Lectures.- Introduction to the Spanish Land Register. Basic concepts. History and development. Basic principles.	10 hours	
	Visit to the Land Register	5 hours	
	Working in small group	5 hours	
	Personal reflection of themes presented in the lectures	20 hours	
	Preparation of the portfolio	30 hours	
	Preparation of the 1st exam	10 hours	
	Preparation of the 2nd exam	10 hours	

275 hours

100%

12 Spain, University of Zaragoza

Cycle	Offered subjects
First cycle	Philosophy of Law Electronic Government Ethics and legislation for engineer National and international statistical organization

12.1 Philosophy of Law

A mandatory subject in the last course of the degree studies of Law at the Faculty of Law of Zaragoza. Duration: one semester

12.1.1 Objectives

- To know the Law Subject: the exercise of the jurist activities
- To know the context of the knowledge society:
 - Globalization
 - Multiculturalism
 - Communications security
- To know the context of the jurist activities: the New Public Management (Public Administrations and Justice Administration: Judicial power)

12.1.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1.Application of legal texts in context 2.Information Technology Law 3.Accessing legal texts 4.Interpretation of legal texts in context 5.Presenting information visually and orally	1.Decision-making 2.Oral and written communication in your native language 3.Ethical commitment 4.Elementary computing skills (word processing, database, other utilities) 5.Interpersonal skills

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Application of legal texts in context	To be able to distinguish several kind of juridical application
2	Interpretation of legal texts in context	To have knowledge on the different juridical texts interpretation methods
3	Presenting information visually and orally	To be able to present and defend arguments
4	Accessing legal texts	To be able to search legal documentation
5	Information Technology Law	To have knowledge on basic computer law

12.1.3 Contents

Theory

- Globalization and multiculturalism: the context of juridical activities
- Juridical activities: introduction
- Access to juridical texts
- The elaboration of juridical theories
- Juridical interpretation
- Juridical application

- The juridical activities as politic activities
- Theories on the Law and the state
- The concept of Law and recent fundaments of the legal philosophical reflexion
- The modern Law as rational tool for the social organization
- The birth of the jurist profession
- Short history of the legal thinking (Savigny, Jhering, Bentham, the Code of Napoleon crisis, Ehrlich, Kelsen, Pound)

Practices.- Presentations made by the students on the theory topics

12.1.4 Workload and ECTS

6 ECTS= 180 student work hours

- Lectures: three per week
- Laboratory: one hour per week
- House work
- Presentations
- Elaboration of paper
- Written exam

12.2 Electronic government

A Departmental subject that every student in the University of Zaragoza can choose it to complete the credits they need to finish their degree. In the

practice, only Law students have chosen it. It has been taught the second semester of the course 2005-06. Duration: one semester

12.2.1 Objectives

- To know the main parameters that impact in the electronic government's development
- To understand the basic architecture of an electronic government service
- To analyze and to evaluate the implementation of an electronic government service

12.2.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
<ol style="list-style-type: none"> 1. Application of legal texts in context 2. Information Technology Law 3. Accessing legal texts 4. Interpretation of legal texts in context 5. Presenting information visually and orally 	<ol style="list-style-type: none"> 1. Decision-making 2. Ethical commitment 3. Oral and written communication in your native language 4. Elementary computing skills (word processing, database, other utilities) 5. Interpersonal skills

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Presenting information visually and orally	To present practically several examples on e government
2	Information Technology Law	To classify the electronic government services from different approaches
3	Accessing legal texts	To search and retrieval the adequate information on e government
4	Interpretation of legal texts in context	To know the basic principles of the normative that governs the use of the ICT in the relationships with the electronic government
5	Application of legal texts in context	To know the state of development of the provision of administrative services with the aid of the information and communication technologies (ICT): "electronic government"

12.2.3 Contents

- Introduction to the electronic administration: Basic concepts. History and development. Advantages, benefits and risks. Introduction policies and strategies.
- Electronic government application areas: From electronic government's definition to their classification. The agents and their relationships. Levels, areas and environments. Procedures, methods and intervention tools.
- Analysis and evaluation of electronic government websites: Bases for an analysis and evaluation model. Documenting the environment and the socio-political and juridical frames. Analysis and evaluation of the portals and services. Case study.
- Normative aspects; basic principles: From the privacy to the computer specialist activities. Computer specialist activities. Security measures and data protection. The security of the electronic communications. Practice codes. The consent and the computer specialist activities.

12.2.4 Workload and ECTS

6 ECTS = 180 student work hours

- One lecture per week
- Tutorials
- Laboratory
- Practical work
- Examination:
 - Students must do a written exam and a practical work
 - The grade is between 1 and 10, passing who obtains five points at least

- The grade is the average of the written exam, the oral presentation of the practice and the written work on the practice, being indispensable to pass the written exam
- The written exam consists on two questions about the program
- The practical work consists on the evaluation of an electronic government website
- The minimum extension of the written work on the practice is 5000 words

12.2.5 Planing form

Programme of Studies.- Department offert . U. Zaragoza

Name of the course unit .- Electronic Government

Type of course (e.g. major, minor, elective) .- Elective

Level of the module /course unit (e.g. BA, MA, PhD) .- BA

Prerequisites

Number of ECTS credits.- 6 ECTS (average student working time: 180 hours)

Competentes to be developed

- 1 Presenting information visually and orally
- 2 Information Technology Law
- 3 Accessing legal texts
- 4 Interpretation of legal texts in context
- 5 Application of legal texts in context

Learning outcomes	Educational activities	Estimated student work	Assessment

		time in hours	
To present practically several examples on e government	Lectures.- Introduction to the electronic administration: Basic concepts. History and development. Advantages, benefits and risks. Introduction policies and strategies.	5 hours	Students must do a written exam and a practical work -The grade is between 1 and 10, passing who obtains five points at least -The grade is the average of the written exam, the oral presentation of the practice and the written work on the practice, being
	Reading assignment on the lectures	5 hours	
	Working in small group	3 hours	
	Personal reflection of themes presented in the lectures	10 hours	

To classify the electronic government services from different approaches	Lectures.-Electronic government application areas: From electronic government's definition to their classification. The agents and their relationships. Levels, areas and environments. Procedures, methods and intervention tools.	5 hours	indispensable to pass the written exam -The written exam consists on two questions about the program -The practical work consists on the evaluation of an electronic government website
	Reading assignment on the lectures	5 hours	-The minimum extension of the written work on
	Working in small group	3 hours	the practice is
	Personal reflection of themes presented in the lectures	10 hours	5000 words

To search and retrieval the adequate information on e government	Lectures.- Analysis and evaluation of electronic government websites: Bases for an analysis and evaluation model. Documenting the environment and the socio-political and juridical frames. Analysis and evaluation of the portals and services. Case study.	5 hours	
	Reading assignment on the lectures	5 hours	
	Working in small group	3 hours	
	Personal reflection of themes presented in the lectures	10 hours	

To know the basic principles of the normative that governs the use of the ICT in the relationships with the electronic government	Lectures.- Normative aspects; basic principles: From the privacy to the computer specialist activities. Computer specialist activities. Security measures and data protection. The security of the electronic communications. Practice codes. The consent and the computer specialist activities	10 hours	
	Reading assignment on the lectures	10 hours	
	Working in small group	3 hours	
	Personal reflection of themes presented in the lectures	20 hours	

To know the state of development of the provision of administrative services with the aid of the information and communication technologies (ICT): "electronic government"	Lectures.- Introduction to the electronic administration: Basic concepts. History and development. Advantages, benefits and risks. Introduction policies and strategies.	5 hours	
	Reading assignment on the lectures	5 hours	
	Working in small group	3 hours	
	Personal reflection of themes presented in the lectures	10 hours	
	15 panels on presentations of different cases of electronic government	30 hours	
	Preparation of the final written report	10 hours	
	Preparation of the final examen	5 hours	

180 hours

100%

12.3 Ethics and legislation for engineers

A non-technical optional subject in the degree studies of Computer Science Engineering, Telecommunication Engineering, Chemical Engineering and Industrial Engineering at the Higher Engineering School of Zaragoza. It has been taught the last ten academic courses. Duration: one semester

12.3.1 Objectives

- To clarify the professional rights, obligations, and limits of engineers in a practical way, covering the following areas:
 - The norms established by law, especially those which regulate the professional activities of engineers in Europe
 - The prescriptions included in the practice codes
- To present the principles shown by the theory of knowledge, with special emphasis on systems theory, cybernetics and communicative action
- To habituate to the engineers to the main arguments of current legislation and ethics of a democratic culture

12.3.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1. Understanding of data protection 2. Using ICT in research 3. Presenting information visually and orally 4. Producing Written Reports	1. Decision making 2. Critical and self-critical abilities 3. Ethical commitment 4. Research skills

Subject specific competences and learning outcomes

Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Presenting information visually and orally	To habituate them to the main arguments of current legislation and ethics of a democratic culture by the practical presentation of positions in this respect
2	Producing Written Reports	To know how to register a mark, for example
3	Understanding of data protection	To clarify the professional rights, obligations, and limits of engineers in a practical way in the knowledge society, taking as reference the data protection law, covering the following areas: The norms established by law, especially those which regulate the professional activities of engineers in Europe The prescriptions included in the practice codes
4	Using ICT in research	To know and to apply the principles shown by the theory of knowledge, with special emphasis on systems theory, cybernetics and communicative action

12.3.3 Contents

- Engineer Activities
 - Introduction: social and political consequences of the engineering practice
 - Activities: a) Problem study; b) Project; c) Decision making or Activities and consent
- Laws and safety measures
 - Safety standards
 - Rights and duties of engineers
 - Intellectual property
 - Responsibility

- The regulation of the professional practice from a compared perspective
- Codes of practice
 - Definition
 - Ethics of efficiency
 - Ethics of impartiality
 - Communicative ethics
 - Professional codes
- Programme of laboratory practices
 - A case solution
 - Carrying out a project
 - Registering a patent or a trade mark
 - Creating a code of practice

12.3.4 Workload and ECTS

3 ECTS = 90 student work hours

- One lecture per week
- Tutorials
- Laboratory
- Practical work
- Examination:
 - Exam on theoretical knowledge (75% of the result)
 - Carrying out a practical test (25% of the result)

12.4 National and international statistical organization

An optional subject in the degree studies of Statistics at the Sciences Faculty in the University of Zaragoza. It was approved in the last modification of the Study program in June of 2005, but it has not still been offered. Duration: one semester

12.4.1 Objectives

- To clarify the professional rights, obligations, and limits of statisticians in a practical way
- To know the principles shown by the theory of knowledge, with special emphasis on systems theory, cybernetics and communicative action
- To know and to apply the legislation on data protection

12.4.2 Learning outcomes & competences

Key subject specific competences	Key generic competences
1. Presenting information visually and orally 2. Producing Written Reports 3. Using ICT in research 4. Understanding of data protection	1. Decision-making 2. Knowledge and ability to use computer and Internet resources to find information 3. Basic knowledge of the profession 4. Critical and self-critical abilities

Subject specific competences and learning outcomes		
Rating of importance order	Short name of the subject specific competence	Extended description of the competence.- Learning outcomes
1	Presenting information visually and orally	To clarify the professional rights, obligations, and limits of statisticians in a practical way: using Internet resources To know how to find statistical data in Internet
2	Understanding of data protection	To know and to apply the Spanish legislation on data protection To know the statistician duties in relation with the Spanish law of

		personal data protection
3	Producing Written Reports	To know the European Union policy on official statistics to write reports
4	Using ICT in research	To know the Spanish and European Union websites of official statistics To know the principles shown by the theory of knowledge, with special emphasis on systems theory, cybernetics and communicative action, applied to the policies on official statistics

12.4.3 Contents

- Systems of Official Statistical Information
- Statistics in Internet
- Organization of the national, regional and of the European Union public Statistics
- Statistical legislation
- Personal data protection

12.4.4 Workload and ECTS

6 ECTS = 180 student work hours

- One lecture per week
- Tutorials
- Laboratory
- Practical work
- Examination

13 United Kingdom, University of Belfast

Cycle	Offered subjects
First cycle	LLB.- Bachelor in Law

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13.1 Planing form

Programme of Studies: School of Law, Queen’s University Belfast

Name of the course unit: Law in Information Society

Type of course (e.g. major, minor, elective): Elective

Level of the module /course unit (e.g. BA, MA, PhD): LLB

Prerequisites: NA

Number of ECTS credits:

Skills to be developed:

- 1 Presenting information visually and orally
- 2 Information Technology Law
- 3 Accessing legal texts
- 4 Interpretation of legal texts in context
- 5 Application of legal texts in context

Learning outcomes	Educational activities	Estimated student work time in hours	Assessment

An introduction to the problem and possibilities of the Information Society.	Lectures- What is the internet and what aspects of IT have produced the basis of the EU programme dedicated to building an 'information society'. In this lecture we look briefly at the technical side of the internet and the potential legal problems arising from the internet.	2 hours	The course will be assessed by two essays on any parts of the course (but not on the same general topics). These will be of no less than 2,000 words in length and no more than 2,500 words. Each essay will be worth 50% of the final course mark.
	Reading assignment on the lectures	5 hours	
	Working in small group	0 hours	
	Personal reflection of themes presented in the lectures	10 hours	
Cyberspace and Crime	Lectures.- The objective of this lecture is to familiarize with a wide variety of legal issues related to crime implicated by a world interconnected through the medium of the World Wide Web	2 hours	
	Reading assignment on the lectures	5 hours	
	Working in small group	0 hours	

	Personal reflection of themes presented in the lectures	10 hours	
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<p>E-Commerce I & E-Commerce II</p>	<p>Lectures.- The purpose of this lecture is to give an overview of e-commerce-trends as seen from three different perspectives. Law is influenced by both technological and economical trends. This lecture will set the stage by giving insight in the developments of a technology, economy and law. an overview of basic ideas in cryptography and public-key infrastructures (PKI), and then move to a recap of policy efforts throughout. This Lecture will also deal with the concepts of international e-commerce taxation, offshore taxation of e-commerce and other related tax issues such as compliance and administration issues of e-commerce tax</p>	<p>4 hours</p>	
	<p>Reading assignment on the lectures</p>	<p>10 hours</p>	

	Working in small group	0 hours	
	Personal reflection of themes presented in the lectures	20 hours	
Intellectual Property	Lectures.- This lecture looks at the EU programme on protection of copyright materials and how successful this might and should be. Is there a place, say, for 'free' personal copying. IP is, of course, wider than copyright (including patents, confidentiality, trademarks	10 hours	
	Reading assignment on the lectures	10 hours	
	Working in small group	0 hours	
	Personal reflection of themes presented in the lectures	10 hours	

Data Protection and State Surveillance	Lectures.- In this lecture we look at the some of the problems caused by these kinds of transformations of the nature of information. We also look at what is omitted from Data Protection – the needs of the State to observe its populations.	2 hours	
	Reading assignment on the lectures	5 hours	
	Working in small group	0 hours	
	Personal reflection of themes presented in the lectures	10 hours	
Privacy & Freedom of Expression	Lectures.- We look at attempts to legislate for privacy and it's related opposite, freedom of expression. Europe is particularly divided on this, and further, the US is even more divergent from Europe. What policy underlies privacy and freedom of expression in the Information Society?	2 hours	
	Reading assignment on the lectures	5 hours	

	Working in small group	0 hours	
	Personal reflection of themes presented in the lectures	10 hours	
E-Government	Lectures.- In this lecture, we are going to look at the concept of E-Government, its nature and characteristics. We will also investigate legal regulation of E-Gov at the European level.	2 hours	
	Reading assignment on the lectures	5 hours	
	Working in small group	0 hours	
	Personal reflection of themes presented in the lectures	10 hours	
Issues in Developing Countries	Lectures- The purpose of this lecture is to provide an overview of technological and legal issues in developing countries	2 hours	
	Reading assignment on the lectures	5 hours	
	Working in small group	0 hours	
	Personal reflection of themes presented in the lectures	10 hours	

Development of writing skills	Lecture -To provide support for essay writing.	4 hours	
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