Legal and Business Aspects of the IoT

Academic Year: **(2020 / 2021)**   **Review date: 10-07-2020**

Department assigned to the subject: Public State Law Department

Coordinating teacher: SERNA BILBAO, MARIA NIEVES DE LA

Type: Compulsory ECTS Credits : 3.0

Year : 1 Semester : 2

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)
those required by the title

OBJECTIVES

Basic skills
CB6 Possess and understand knowledge that provides a basis or opportunity to be original in the development and /
or application of ideas, often in a research context
CB7 That students know how to apply the knowledge acquired and their ability to solve problems in new or unfamiliar
environments within broader (or multidisciplinary) contexts related to their area of ¿¿study
CB8 That students are able to integrate knowledge and face the complexity of formulating judgments based on
information that, being incomplete or limited, includes reflections on social and ethical responsibilities linked to the
application of their knowledge and judgments
CB9 That the students know to communicate their conclusions and the knowledge and last reasons that sustain them
to specialized and non-specialized public in a clear and unambiguous way

General skills
CG2 Ability to compile and analyze the existing knowledge in the different areas of IOT, autonomously, and ability to
make a proposal of possible solutions to the problems posed.
CG7 Ability to know how to communicate (orally and in writing) the conclusions - and the knowledge and ultimate
reasons that sustain them - to specialized and non-specialized audiences in a clear and unambiguous way.

Specific competences
CE5 Ability to design, develop, manage and evaluate security assurance mechanisms in the treatment and access to
information in computationally limited devices and in IoT networks.
CE6 Ability to apply mathematical, statistical and artificial intelligence methods to model, design and develop
applications, services and intelligent systems in the field of IoT.
CE10 Ability to integrate the different systems of perception and control of processes both from the hardware and
software point of view.
CE13 Capacity to apply the legislation, regulation and standardization of the IoT.

LEARNING RESULTS
The learning outcomes that students should have are:
- Know and apply the law and legal aspects of IoT.
- Know the models and reference structures of IoT.
- Capacity for analysis, design and control of systems and services
- Know the security risks of an IoT environment.
- Know the physical security measures applicable to mobile devices.
- Know and apply the fundamental techniques of protection of information stored on mobile devices.
- Master the main existing security protocols for mobile communications and their spectrum of application.

DESCRIPTION OF CONTENTS: PROGRAMME
Legal and business aspects program
1.- Introduction to IOT
2.- Legal regulation of the IOT.
3.- Privacy and Data Protection in IOT
4.- Security in the IOT.

LEARNING ACTIVITIES AND METHODOLOGY

TRAINING ACTIVITIES OF THE STUDY PLAN CONCERNING SUBJECTS
AF1 Theoretical class
AF4 Case Studies
AF6 Group work
AF7 Individual student work
AF8 Partial and final exams
Due to the pandemic situation, Covid 19-, the classes will be taught online through the tools and
platforms provided by the University for the transition to online training through Blackboard Collaborate.
Also, Aula Global (Moodle) will be used.
In accordance with the above, the methodology used determines the substitution of face-to-face classes for
virtual classes through Blackboard Collaborate. These virtual classes will be held in accordance with the
timetable approved for the subject by the Master's Office.
To facilitate the monitoring of the classes, the materials for each Lesson in the global classroom will be uploaded, as well as the
practical exercises and works.
TUTORIAL REGIME
Tutorials will be provided by email or through the bb collaborate platform, at the times established in AULA
GLOBAL either individual or group.

ASSESSMENT SYSTEM

The evaluation system of the subject will be 100% continuous evaluation.
It will be carried out using the platforms and tools that the University enables and any other whenever it allows
clearly identify the students.
The works that the teacher determines will pursue that all the contents of the program are worked and will be valued
-Class participation
-Individual or group work carried out during the course
-Test type control examination
-Any other determined by the teacher

% end-of-term-examination:	50
% of continuous assessment (assigments, laboratory, practicals…):	50

BASIC BIBLIOGRAPHY

 - - CARLOS GALAN PASCUAL   ¿El Derecho a la Ciberseguridad, cOoords. Tomás de la Quadra Salcedo y José Luis Piñar Mañas., (BOE, BOE, 2018)
 - Agustín Madrid Parra María Jesús Blanco Sánchez Derecho mercantil y tecnología , Aranzadi Thomson Reuters ISBN 9788490992142; ISBN 9788490992166 (cub., 2018
 - CARLOS GALAN La certificación como mecanismo de control de la inteligencia artificial en Europa, Documento de Opinión 46/2019, 2019
 - Moises Barrio Andrés internet de las cosas, Reus 2018 ISBN 9788429020380, 2018 ISBN 9788429020380

 - Solución para garantizar la privacidad en internet de las cosas Sánchez Alcón, José Antonio ; López Santidrián, Lourdes ; Fernán Martínez, José , ISSN: 1386-6710 El profesional de la información, 2015, Vol.24(1), pp.62-70 , 2015

 - Wolfgang Hoffmann-Riem Antonio López Pina Big Data : desafíos también para el Derecho , Civitas Thomson Reuters 2018 ISBN 9788491979142; ISBN 9788491979159 (cub.), 2018

BASIC ELECTRONIC RESOURCES

 - AEPD . AEPD: http://https://www.aepd.es/

 - AGENCIA CATALANA DE PROTECCION DE DATOS . ACPD: http://https://apdcat.gencat.cat/es/inici/

 - AGENCIA VASCA PROTECCION DE DATOS . AVPD: http://www.avpd.euskadi.eus/s04-5213/es/

 - ENATIC . La piedra angular del Internet de las cosas: https://www.abogacia.es/2015/02/16/la-piedra-angular-del-internet-de-las-cosas/
 - GALAN PASCUAL Y OTROS . ¿La Enciclopedia de los Servicios de Certificación para las administraciones locales¿: http://http://femp.femp.es/files/566-2392-archivo/ID_Digital_VDigital.pdf