GENERAL INFORMATION

Data of the subject	
Subject name	Mobility Security and Management
Subject code	DTC-MCS-515
Mainprogram	
Involved programs	Máster en Ciberseguridad [Primer Curso]
Level	Master
Quarter	Semestral
Credits	3,0 ECTS
Type	Obligatoria
Department	Department of Telematics and Computer Sciencies
Coordinator	Rafael Palacios
Course overview	The course addresses the problem of cybersecurity in teleworking and in mobility access (mobile devices and apps) to the information systems on which organizations rely. For this the particularities of these scenarios are analysed, as well as the techniques and methodologies considered as industry best practices to make them secure. Presented solutions include VPNs, applications portals, resources publishing, BYOD, MDM/EMM or MAM.

Teacher Information	
Teacher	
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DESCRIPTION OF THE SUBJECT

Contextualization of the subject
Prerequisites
Basic knowledge of communication networks

Course contents

Contents
Contents
SECTION I: Security management in telework scenarios

- Teleworking scenarios security peculiarities
- Teleworking technical architectures
- Securing teleworking architectures
- Securing PCs for teleworking
- Teleworking security management lifecycle

SECTION II: Security management in mobile devices

- Mobile devices security peculiarities
- Securing mobile devices
- Management of mobile devices in corporate environments
- Mobile devices security management lifecycle

SECTION III: Mobile devices' applications (apps) security

- Apps security peculiarities
- Defining security requirements for apps
- Approval of apps for use in corporate environments

EVALUATION AND CRITERIA

Grading

- Intermediate exam with a weight of 28% of the final grade
- Final exam with a weight of 56% of the final grade
- Participation and performance of the proposed activities and proactivity, with a weight of 16% of the final grade

BIBLIOGRAPHY AND RESOURCES

Basic References

CCN-CERT BP/18 "Recomendaciones de seguridad para situaciones de teletrabajo y refuerzo en vigilancia"

NIST Special Publication 800-46 Revision 2, "Guide to Enterprise Telework, Remote Access, and Bring Your Own Device (BYOD) Security"
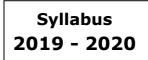
NIST Special Publication 800-114 Revision 1, "User's Guide to Telework and Bring Your Own Device (BYOD) Security"

NIST Special Publication 800-124 Revision 1, "Guidelines for Managing the Security of Mobile Devices in the Enterprise"

Draft NISTIR 8144 "Assessing Threats to Mobile Devices & Infrastructure. The Mobile Threat Catalogue"

NIST Special Publication 800-163 Revision 1, "Vetting the Security of Mobile Applications"

NISTIR 8136, "An Overview of Mobile Application Vetting Services for Public Safety"