

CYBERSECURITY

Cybersecurity is about balancing risks and opportunities in cyberspace, the global interconnection of digital networks. Cybersecurity is designed to protect digital property, personal information, and business transactions from accidents, errors, and deliberate attacks.

➤ **ECTS credits: 1**

➤ **Dates: 28 June to 3 July 2021**

■ **Recommended background knowledge for students:**

- Background in ICT (Information and Communication Technologies)

Meet Our

INSTRUCTOR



Víctor A. Villagrà is associate professor at the School of Telecommunications Engineering School (ETSIT), UPM, since 1992. His main research areas are Cybersecurity and Network and Service Management and he teaches different undergraduate and postgraduate courses in these areas. He is currently the Director of the MSc in Cybersecurity Master programme at UPM.

LEARNING GOALS

■ **Gain**

Overview



Cybersecurity areas and objectives

■ **Understand**

Need and Methods



Cybersecurity risk analysis and planning

■ **Identify**

Threats and vulnerabilities



Systems and users

■ **Learn**

Theoretical aspects



Specific business field

SYLLABUS

MODULE	01	I Cybersecurity Objectives and Planning Why and how? Risk Assessment Cybersecurity Policy Design	II Know your enemy Human Threats Technological Threats
		I Security Services: Access Control Services Authentication Perimeter Defense	II Security Services: Network Security Security Protocols
	03	I Industry Talk	II Question and answer session

Meet Our

INDUSTRY SPEAKER



Raúl Riesco Granadino holds an MS and PhD in Telecommunication Engineering from the Universidad Politécnica de Madrid. He has more than 20 years of professional experience in Information Security and ICT sector. He is currently Co-Founder of Babylon Finance, former VP in Telefónica Eleven Paths and previously he was Deputy Director at the Spanish National Cybersecurity Institute (INCIBE). Since 2013 he has been actively contributing as an expert / advisor to European Commission in NIS Research and Innovation (H2020).