PROGRAMME INFORMATION

UNIVERSITY MASTER'S DEGREE IN CYBERSECURITY

CÓDIGO 310901

UNED · ETS de Ingeniería Informática

**UNIVERSITY MASTER'S DEGREE
IN CYBERSECURITY**

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University Master´s Degree in Cybersecurity

INFORMATION IDENTIFYING THE QUALIFICATION

Name and status of awarding institution

Universidad Nacional de Educación a Distancia.

Public university.

Name of qualification and title conferred in original language

Máster Universitario en Ciberseguridad por la Universidad Nacional de Educación a Distancia.

Status

National validity.

Main field(s) of study for the qualification

The study is included in the field of Engineering and Architecture.

Language(s) of instruction/examination

The master is taught in Spanish.

INFORMATION ON THE LEVEL OF THE QUALIFICATION

Level of qualification

Level 3 (Master) in the Spanish Framework of Higher Education (MECES) is equivalent to level 7 of European Qualification Framework (EQF).

Official length of programme

The official length of programme is 60 ECTS and 1 year full time.

Access requirements

University Degree in Architecture or Engineering

INFORMATION ON THE CONTENTS

Mode of study

Distance learning full time

Programme requirements

The programme of studies is composed of 36 compulsory ECTS, 12 elective ECTS and 12 Master's Dissertation ECTS.

Subjects
- Practical Cryptography
- Audit and Security Monitoring
- Digital Forensics
- Ethical Hacking
- Ciber Offences
- Security in Critical Infrastructures
- Malware Analysis
- Cybersecurity Incident Management
- Introduction to Machine Learning for Cybersecurity
- Legal framework of the National Defense in Cyberspace
- Final Master Project

Grading scheme

In the Spanish university system, modules/courses are graded on a scale of 0 to 10 points with the following qualitative equivalence:

0-4.9: "suspenso"; 5-6.9: "aprobado"; 7-8.9: "notable"; 9-10: "sobresaliente". A special mention, "Matrícula de Honor" may be granted to up to 5% of the students in a group provided they have got a "sobresaliente". To pass a module/course it is necessary to get at least 5 points.

INFORMATION ON THE FUNCTION OF THE QUALIFICATION

Access to further study

This qualification gives access to Doctoral studies, provided that the student has completed a minimum of 300 ECTS in the overall teachings of University and Master´s Degree.

Stated objectives associated with the qualification and professional status (if applicable)

The main aim of the Master is focused on the training of students in the field of Cybersecurity. The proposed program covers the main aspects of Cybersecurity, emphasizing technical aspects and legislation, from different points of view. To achieve this goal, students will learn about defense and prevention mechanisms through auditing, monitoring, ethical hacking, and cryptography, as well as reaction to an
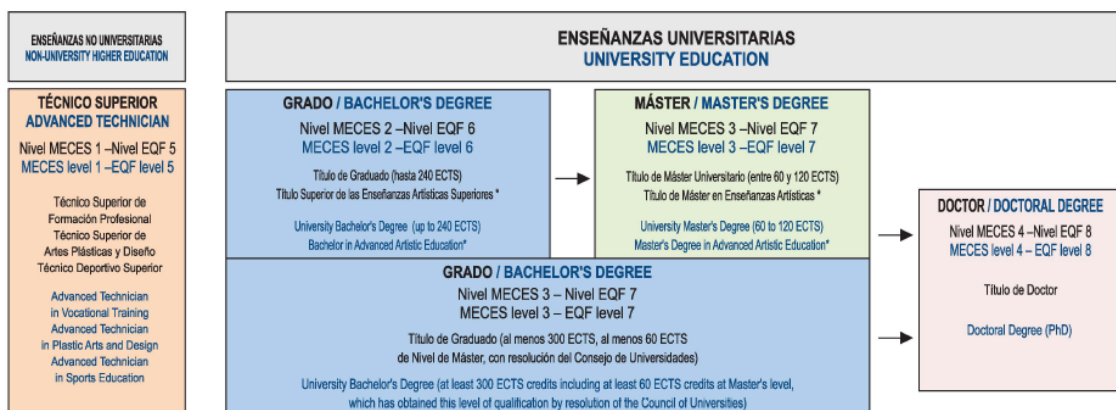
incident through the management of computer incidents and their forensic analysis, considering the current legal framework.

The competences of the Master will focus on the ability to design, implement and maintain a cybersecurity system. First, students must be able to analyze various methods and techniques of cyber attacks. It will also deepen the ability to identify, manage and develop security measures and protocols in the operation and management of computer systems. Without forgetting the importance of be aware of the regulations and current legislation on cybersecurity, its implications in the design and implementation of computer systems.

ADDITIONAL INFORMATION

https://www.uned.es

INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

* Las enseñanzas Artísticas Superiores son Enseñanzas no Universitarias dentro del Sistema Educativo español de Enseñanza Superior
* Advanced Artistic Education is non-university education within the Spanish Higher Education System