Master's Degree Title: Computer Security
Semester: S2
Teaching Unit (UE): UEF212
Course Title: Database Forensic Security
Credits: 4
Coefficient: 3

Course Objectives:
This course aims to provide students with the fundamental concepts and techniques required to secure database systems and to conduct forensic investigations involving databases. Students will learn how to protect database infrastructures through authentication mechanisms, access control policies, encrypted data management, and secure communication between database systems. The course also introduces methods for auditing database security, performing security testing, responding to security incidents, and conducting forensic analysis of databases in the context of cybercrime investigations.

Recommended Prerequisite Knowledge:
(Not specified)

Course Content:

1. Security and Information Technologies.
2. Authentication.
3. Access Control.
4. Querying Encrypted Data.
5. Protection of Communications Between Databases.
6. Security Auditing.
7. Security Testing.
8. Incident Response.
9. Forensic Analysis.

Assessment Method:
Continuous assessment and final examination.

Bibliographic Reference:
Database Security, 1st edition. Alfred Basta.