

New Trends in Information Technology

SEMESTER: Spring
CREDITS: 3 ECTS
LANGUAGE: Spanish/English
DEGREES: MII

Course overview

This course takes you through the different emerging technologies that companies use to develop new business models and create new digital process.

Prerequisites

-

Course contents

Theory

Block 0 Methodologies

Session 1: Main concepts for Scrum, DevOps, DataSecOps, TDD, BDD

Block 1 Internet of Things, IoT

Session 2: Introduction and leading rapid prototyping platforms

Session 3: Communication protocols and business cases

Block 2: Cloud Platforms

Session 4: Cloud Architectures

Session 5: AWS

Session 6: Azure

Session 7 GCP

Block 3: BlockChain

Session 8: Foundation

Session 9: Smart Contracts

Session 10: Crypto Currencies

Block 4: Cybersecurity

Session 11: Introduction and Cryptography

Session 12: Pentesting and Information gathering

Session 13: DFIR, Blueteam, RedTeam

Block 5: Case study

Session14: Case study with everything learned