



SPECIALIZATION COURSE

Industry 4.0 Project Management

B-Learning — Outside working hours

Total training hours: 325

Start date: September 2018

TARGET TRAINING AUDIENCE:

Entry requirements: Level 6 (bachelor degree)

Ideally in Engineering, Sciences or Mathematics.

Candidates with no academic degree may be accepted upon analysis of the curriculum and professional experience.

GENERAL OBJECTIVES:

- Empower trainees to perform in functions related to projects management and to the implementation of Industry 4.0 technology in their organizations;
- Raise awareness of the technological and industrial management disruptive principles;
- Raise awareness about technologies and their industrial usage in the different production areas.

At the end of the training, trainees should be able to lead implementation projects of new technologies and to manage teams, using the human and financial resources available with a positive impact on productivity and on the positioning of the company in the market.

SYLLABUS CONTENT

COURSE UNITS/HOURS

Introduction to the “Industrial Revolution”.....	5
Industry 4.0 in Portugal and in the world.....	5
Smart Production.....	15
Digitalization of Processes.....	15
Modular Operations Work.....	15
Logistics.....	15
Digital Infrastructure.....	15
Strategies for an Efficient Energy Consumption.....	15
Sensor Technology.....	15
Acquisition and Management of Data (Big Data)...	15
Data Analysis and Mathematical Modelling.....	15
Artificial Intelligence.....	15
Cyber-Physical Systems.....	15
Augmented Reality.....	15
Additive Manufacturing.....	15
Advanced Materials.....	15
Interaction Man/Machine.....	15
Education i4.0.....	15
Cyber Security.....	10
Intellectual and Data Property.....	5
Lean Management.....	15
Leadership.....	5
Dissertation.....	40