



Vocational Training program IoT & Data Science

Expression of Interest: **FREE of Fees*** (<https://bit.ly/2XWvtZY>)

Registrations: **September 2019**

Duration: **November 2019 - August 2020.**

**THE COST OF THE TRAINING PROGRAMS ARE FUNDED BY THE ERASMUS+ PROJECT SENDING*

“**Accelerate
your
Career**”

24,697 open Data Scientist positions on LinkedIn in the United States alone, while the top 3 most common skills requested in LinkedIn data scientist job postings are Python, R, and SQL.



The SEnDIng vocational training programs are based on modular and multi-disciplinary curricula combining technical with transversal (or soft) skills. They have been designed in consultation with VET providers, academics, technology companies and experts that are active at the Data Science and IoT domains. Their aim is to fight the skills' gap by providing vocational trainings that meet the demand and last trends of Data Science and IoT industries.

- ◆ **Available in Greece, Cyprus and Bulgaria**
- ◆ **Boosting Data Science & IoT Skills**
- ◆ **Get certified knowledge, skills and competences**
- ◆ **Work with the latest technology stacks**
- ◆ **Meet new challenges in the labor market**
- ◆ **Grab the top paying Data Science and IoT expert job titles**
- ◆ **Get qualified to occupy new positions**
- ◆ **Apply the knowledge and skills gained at a real working environment**

◆ **Phase 1** Online training (103 hours).

The online training will be provided in the form of asynchronous courses at the areas of Data Science or IoT. Each online training program consists of a series of modules that helps you master specific knowledge, skills and competences at the areas of Data Science or IoT.

◆ **Phase 2** Face to face training (20 hours).

The face to face training aims to cultivate the transversal skills of the trainees. Trainees will be eligible to participate in the face to face training, once the online Data Science or IoT training are completed. Offered in Greece, Bulgaria and Cyprus

◆ **Phase 3:** Work based learning (4 months).

Work based learning aims to provide knowledge, skills and competences by doing a job and by reflecting on the experience. It will run at the companies whose employees will participate in the training. The use cases will be defined in cooperation with the companies participating in the program based on their interests and needs.

◆ **Final Exams- Certification**

After the completion of the 3 phases training, the trainees will be asked to take a final exam in order to be formally certified.

**Contact
us!**

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Expression of Interest

What I will learn?

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Those interested to participate in work based learning will be eligible, given that they have successfully attend the online Data Science (103 hours) or IoT training (103 hours) and the face to face training on transversal skills (20 hours). Please visit our website <http://bit.ly/vet-program> to see the Data Science & IoT online courses, as well as the face to face courses for transversal skills.

IoT LEARNING OUTCOMES

Knowledge

- Describe the value that IoT delivers in different business domains.
- Explain the business processes related to IoT in specific domains.
- Understand IoT architectures and the related network and communication protocols.
- Recognize different types of sensors, actuators, displays and related embedded electronics
- Design the application level (e.g. use protocols that support different IoT applications) of IoT in the context of big data, cloud technologies and DS.
- Formulate requirements about IoT information security.

Skills

- Analyse, argue and describe the business value of a particular IoT system.
- Design an IoT system that includes sensors, controllers, actuators and displays, connected to a cloud platform through Internet connection.
- Develop and deploy workflows and dashboards for an IoT system that includes sensors, controllers, actuators and displays, connected to a cloud platform through Internet connection.
- Develop working code for an IoT system that includes sensors, controllers, actuators and displays, connected to a cloud platform through Internet connection.
- Apply IoT information security concepts.

DATA SCIENCE LEARNING OUTCOMES

Knowledge

- Describe the key concepts of Data Science.
- Describe ICT methods and tools applicable for the storage and retrieval of data.
- Describe methods and tools applicable for the statistical analysis of data.
- Explain basic concepts and requirements related to information security and privacy.

Skills

- Analyse domain specific trends and present them as structured information.
- Create code to statistically analyse data.
- Apply data statistics and data visualization.
- Deploy simple machine learning techniques.
- Deploy data storage and retrieval techniques.
- Implement data models validation techniques.
- Ensure that IPR, security and privacy issues are respected.

Competence

- ◆ Exercise self-management within the guidelines of work or study contexts that are usually predictable, but still are a subject to change;
- ◆ Supervise the routine work of others, taking some responsibility for the evaluation and improvement of work or study activities;

Transversal (soft) Skills

- ◆ Communication skills;
- ◆ Adaptability to change;
- ◆ Teamwork;
- ◆ Ability to present in front of colleagues and clients;
- ◆ Goal-orientation; Thinking outside the box; Agile mind-set;

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