

## COURSE DETAIL

### IOT AND BIG DATA FOR SMART AGRICULTURAL SYSTEMS

**Country**

Italy

**Host Institution**

University of Bologna

**Program(s)**

University of Bologna

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Agricultural Sciences

**UCEAP Course Number**

188

**UCEAP Course Suffix****UCEAP Official Title**

IOT AND BIG DATA FOR SMART AGRICULTURAL SYSTEMS

**UCEAP Transcript Title**

IOT&DATA SMRT AG SY

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course is part of the Laurea Magistrale degree program and is intended for advanced level students. Enrolment is by permission of the instructor. The course focuses on topics including: the basics for ICT, big data, and IoT; the introduction to IoT, application scenarios, enabling definitions and technologies, and cloud and fog computing; the main components of IoT solutions, and big data and references to Artificial Intelligence; and IoT and big data services from the product to the service, and application cases in smart agriculture. The course content is divided into 6 parts: 1) introduction to computer science; 2) Internet of Things (IoT); 3) big data and Artificial Intelligence; 4) tools for data analysis, elaboration, and visualizations; 5) field work; and 6) seminar.

### Language(s) of Instruction

English

### Host Institution Course Number

93653

### Host Institution Course Title

IOT AND BIG DATA FOR SMART AGRICULTURAL SYSTEMS

### Host Institution Campus

BOLOGNA

### Host Institution Faculty

### Host Institution Degree

LM in PRECISE AND SUSTAINABLE AGRICULTURE

### Host Institution Department

Agricultural and Food Sciences

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