MAPIoT Summer School in Norway

MODERNIZING AGRICULTURAL PRACTICE USING INTERNET OF THINGS
Grant 20-COP-0019 ESAYEP nr. F-SEE-026/06.2021

MAPIoT project objectives:

The main goal of this project is to build the capacities and to facilitate the deployment of digital technologies in agriculture. More precisely is based on transferring digital skills, knowledge and technologies from Computer Science domain toward Agriculture, Food Processes and Safety improving efficiency, increasing the wellbeing of the society and reducing the environmental footprint. By exploiting the potential of digital technologies (IoT systems, robotics, automation, software applications) will accelerate the agriculture modernization and will improve the Food Processes like:

- Improving crop yields by modernizing the irrigation practices, optimizing crop management in terms of fertilization and mechanization using mobile technologies, etc.
- Modeling and automated management of food industry processes.
- Sustainability energy availability by new and automated methods for food process monitoring and control.

We are inviting...

Summer school in the field of development and application of digital technology in agriculture. Seven training courses will be organized on the following areas of interest:

- IoTs sensors and actuators, communications and cloud integration;
- Using drones and Computer Vision concepts for image gathering and analysis;
- Digital design of food manufacturing processes;
- Modeling an assembly line for picking fruits / vegetables;
- Algorithms specific to Artificial Intelligence and Evolutionary Computing used in agriculture and in the modeling and automatic management of the fermentation process of white wines;
- **HACKATHON**: Develop your own business idea in agriculture and food industry.

WHEN and WHERE?

24 July 2022 – 07 August 2022, Melsom High School, Sandefjord organized by University of South-Eastern Norway

Why to apply:

- Acquiring technical skills related to Internet of Things, Artificial Intelligence, Robotics and smart drones and their application in agriculture and food safety processes;
- Acquiring 5 ECTS transferable credits;
- School, life and multicultural experience in Norway.

Costs covered by the project:

- Travel costs to Norway.;
- Accommodation and meals during the summer school in the amount of 58 Euro/day.

Requirements:

- Student Application Form - can be downloaded from the project site http://digifof.omilab.ulbsibiu.ro/psm/content/mapiot/info
- Curriculum Vitae in Europass format;
- Motivation letter in English language;
- Academic Transcript to certify the student's status and the average grade for the previous semester or the previous year of study;
- English Proficiency Certificate or a recommendation from an English teacher;

Students selection:

Eligibility criteria:

Students must be enrolled at the "Lucian Blaga" University of Sibiu at least in 2nd year of study for the Bachelor's cycle or at least in the 1st year of study for the Master's cycle, to have pass all the exams in the previous year, to have good academic results, to use the English language at least at level B2.

Selection criteria: Academic results 20% , Motivation letter 20% , Interview to confirm the content of the motivation letter and to assess attitude towards participation in the Summer School 40% and relevant language skills 20%.

Number of students accepted for the project:

- 5 students from the Faculty of Agricultural Sciences, Food Industry and Environmental Protection;
- 5 students from Computer Science domain from the Engineering Faculty.

Timeline for the selection:

- **18 April 2022 - 04 May 2022**
  Fill out the required papers and submit them to the Secretariat of the Engineering Faculty
- **6 May 2022**
  Selection interview (room IM311 Engineering Faculty);
- **9 May 2022**
  Results announcement;
- **10 May 2022**
  Submission of appeals to the Secretariat of the Engineering Faculty;
- **12 May 2022**
  Final results .