



Erasmus+



MSc in Sustainable Food Production Systems/STEPS

Erasmus +, Key Action - 2 Cooperation for innovation and the exchange of good practices –

Capacity Building in the field of higher education

Kick off Meeting

Agricultural University of Tirana

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Emir Mujić, Ph.D., Assistant professor
University of Bihać
Biotechnical faculty



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ERASMUS+ PROJECT STEPS

MSc in Sustainable Food Production Systems



Work package 5

DEVELOPMENT

Title: Development of infrastructures

TYPE: **DEVELOPMENT**

LEAD ORGANIZATION: **UNBI (P5)**

PARTICIPATING ORGANIZATION: **ALL**

ESTIMATED START DATE **15/9/2019**

ESTIMATED END DATE **15/10/2020**

Related assumptions and risks

- ▶ The list of equipment will be verified
- ▶ Preparation of the appropriate documentation for the equipment
- ▶ Accommodate and install the purchased equipment
- ▶ Delays due to the lack of human resources who will attend the training seminars will be avoided

Description

- ▶ **The aim is to build the capacity of laboratories of partner countries HEIs, in terms of:**
 - ICT-centers equipped with computers, software and relevant infrastructures.
 - Advanced measurement instrumentation.
 - Licenses for advanced software tools.

- ▶ **Two types of laboratories will be developed:**
 - The first will be the “**Food Quality Control Lab**”; it will offer the advantage of specifying experimentally the quality of agricultural products.
 - The second will be the “**Food Production Systems Management Lab**”; it will offer an opportunity for the students to design and analyze processes and supply chains and evaluate the performance of production systems.

► The equipment will be used for:

- **improvement** of the quality of teaching and the level of knowledge, and improve the potential of the scientific staff.
- the opportunity to **organize joint programmes** with industrial partners or small and medium private sector companies, and national bodies.
- the opportunity of the **involvement** of HEIs in European and international research and development projects.

- Educational content of the STEPS programme, for each of the experiments and simulations, training material should include:
 - ✓ learning outcomes in experiment/simulation level,
 - ✓ A detailed description of the experiment/simulation,
 - ✓ guidance and description of steps towards the successful implementation of the activity.

Tasks

Deliverables – results - outcomes

1. Development of teaching/learning environment

- Developing ICT centers in all partner countries HEIs.
- Partner countries HEIs will validate the lists of equipment delivered to the Coordinator.
- Responsibility for purchasing and installing the equipment on their premises.
- All the documents will be available to EACEA.
- The whole set of devices purchased will be described in detail in a report.
- Distributed by newsletters, press releases, the web-site..

2. Development of research labs

- The specifications of the experimental devices of the Food Quality Control Lab will be supervised by **AUT**, **UNBI** and **UNSA**.
- Scientific staff of **USAMVB** and **ReadLab** will actively be involved in the task as advisors.
- Regarding the Food Production Systems Management Lab, **UET**, **UHZ**, **UC** and **UNSA** will be responsible for evaluating the corresponding specifications, while scientific staff of **CULS** and **TEISTE** and **ReadLab** will be also involved in the tasks, mainly as advisors.
- After the installation, small-scale demonstrations will be provided.
- **UNBI** will be responsible for collecting all the necessary documentation

3. Development of experiments/simulations and training material

- Scientific staff will design laboratory and software-based exercises and projects, with the aim of exploiting the purchased facilities to the maximum degree.
- For each of the experiments and simulations, training material will be developed by scientific staff.
- Training material will be based on learning outcomes of the experiment/simulation level.

- ▶ The progress of the tasks will be monitored based on indicators which will include, among others:
 - the number of facilities/software licenses purchased and installed,
 - the number of laboratory experiments and software simulations designed,
 - the number of training/manuals developed.

- ▶ Scientific staff of HEIs (and MSc attendees during the implementation of the MSc programme) **will be asked about the level of satisfaction regarding the equipment installed, the number and the level at which the equipment supports the courses, its relevance with respect to modern approaches and applications.**



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