



Project title	New Professional Diploma in Plant Clinic and Phytosanitary Technologies (PRO-DPCP)
Project No	609550-EPP-1-2019-1-BG-EPPKA2-CBHE-JP
Work Package 3	WP3 – DEVELOPMENT (II) Training activities in plant clinic units for diploma program
Date	25/2/2021
Dissemination level	Internal



Report of staff training plan developing

Meeting of the plant clinic team at the Suez Canal University to implemented the specific tasks according to the work plan and timetable

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The project management team met with the training committee on 25-2-2021, the meeting discussed the issues raised, including:

WP 3.1. Need of training or training plan for Suez Canal University staff, technician and students were discussed through several phases based on the described project plan.

Training activities in plant clinic units for diploma program are divided into:

- 1- Developing of staff training plan(3.1)
- 2- Training of academic staff from partner universities on ECTS and pedagogical education system by EU experts (3.3)
- 3- Training of Trainers (TOT) on Plant Clinic Techniques (3.4)
- 4- Training technical staff on installation and maintenance new equipment's. (3.5)
- 5- Training and upgrading the quality of administrators in partner universities on peculiarities of ECTS (3.6)



- 6- Training of e-learning and network developers (3.7)
- 7- Training of students in practical field and lab study and internship (3.9)
- 8- Short Training program certificate (every 3 months) for Farm Assure (auditor) in the special area of Phytopathology and Plant Health Care (3.10)

This work package aims to provide suitable and innovative teaching resources to foster establishing a new program of Plant Clinic education and collaborations through the training and technology transfer and innovations between the network of stakeholders and higher education institutions.

Through the staff/students training scheme that will offer professional development opportunities for academic and professional services staff/students improving the skills required for their current job by participating in joint training program by experts from EU and Egypt partners.

Training should take the form of:

- A short secondment period of experts if needed
- Attendance at workshops or courses
- Attendance of staff training

The training program will be built around:

- The transfer of knowledge and good practice
- Learning from shared experience
- The acquiring of new practical skills
- The discovery of new ideas for teaching and learning

Suez Canal University will participate and engage in this core WP of the project.



Suez Canal University will focus on foundational aspects and building the practical technical skills which needed for the design and implementation of Plant Clinics building capacity.

Training workshops will be organized and conducted parallel at Suez Canal University. Feedback and the learned lessons from other similar programs will be incorporated to fine-tune trainers' know-how and extension of training material. Part of the training material will be adapted to provide via its E-Learning platform. To this end, training material will be developed and made available in English and Arabic languages.

This work package aims to provide high quality training and working on education and support rural society's beneficiaries; students and graduates of plant protection specialties. All stakeholders will be acquainted with the necessary knowledge for improving the quality of the support services that will be provided through Plant Clinics.

To provide effective and quality training, the consolidated training plan should be agreed at the national level. The extensive high-quality training should be provided by EU experienced partners and beneficiary staff as well as public and private agriculture sectors. Training need is designed based on the results of WP1 and the activities of WP2 to ensure cohesion among project activities. Training material will be available on the project website. However, the consolidated training plan should be agreed at the national and regional level to provide effective and quality training.

1-Developing of staff training plan (3.1)

Based on WP1 (1.4., 1.5.,1.6.)

1. The executive training program plan

The plan for each training course is determined based on the content of the training course and the number of applicants for the course. Accordingly, the duration of



the course is determined. The selective trainers are determined according to the previous and also determined the timetable for each training session.

2. The right number of trainees

The number of trainees should not be more than 15 and no less than five trainees per one training program in any training course

3. The agenda of each training subject

According to the initial feedback of the beneficiaries and stakeholders in many surveys for the plant clinic diploma program, the needs to implement training courses are defined as the following points:

1. Training in the field diagnosis of pests and pathogens
2. Training on seed safety tests and seed inspection
3. Training on using the modern techniques in diagnosing plant pathogens
4. Training on using the Polymerase Chain Reaction (PCR) technique in diagnosing plant diseases

5. Training the administrative staff on (ECTS) units

However, The European Credit Transfer and Accumulation System (ECTS) will be applied to the new DPCP program modules in teaching and evaluation. Four key academic staff from each Egypt partner university will attend training workshop by EU experts. The training will cover the following subjects:

- The introduction of ECTS requires the preparation of materials, both the learning of new credit system and the management of data demanded by academic staff, administrative staff and tutors.
- To know-how the overall ECTS and accumulation system; measuring and comparing the learning achievements, recognition of periods of study abroad, enhancing the quality and volume of student mobility.



-How to transfer the system from one institution to another to implement at institutional, regional, national levels by;

- The transfer of knowledge and good practice
- Learning from sharing the experience
- The acquiring of new practical skills
- To discovery of new ideas for teaching and learning

6. Training technical staff on installation and maintenance new equipment's.

- Training workshops on techniques of installation and maintenance of the equipment and software to organize video and audio conferences.
- Installation and technical testing of all equipment; agreement on standards for staff and students using; publication of standard usage; security arrangements for the equipment.
- Technical personnel working with equipment will be employed to take care of all equipment and maintenance of the Networks.

7. Training of the staff in e-Learning and preparing the electronic course

- Network developers; (Tech-staff) complete training course (8-12 weeks in Egyptian partner universities) to be able performing tasks in the design, installation, operation, and troubleshooting of Ethernet and TCP/IP Networks. Their role is to input data as pinpoint-mapped information on the main server of plant health database, merge with information on disease/pest description, management, together with risk assessments of future likely threat epidemiological studies in time, with weather data to facilitate pest modeling studies.
- learning technical developers will trained in E-learning center where finding the different aspects of the E-learning system model (course, content, unit, communication, interactive, hyper-media, adaptive, accessible). They will focus on the most important pedagogical and didactical aspects to be considered in the e-learning content design and implementation. Preparing e-Learning materials, providing learning support and motivation, developing self-regulated learning, stimulating group work, and promoting the transfer of learning to the concrete working situations and evaluating the learning process



- The e-Learning material (e.g., e-content) has elements of presentation, interactive and communication and collaboration
- Adoption of e-learning by Software MOODLE

8- Training of students in practical field and lab study and internship

The student will get internship by staying in the place of job to analyze the problem and write a proposal of their diploma thesis.

4- The criteria of trainers and trainee's selection

Initially, the participants will be selected according to their expertise and age. The selective trainers among the faculty staff that should complete the training courses for trainers (TOT) and they are very distinguished in the field of specialization. Trainees will be selected for a course based on the trainee's request firstly, and then the applicants will be compared on the basis of specialization and the trainee's need for training courses in their work field. However, trainees should have English skills and motivation to strengthen activities network and abilities to break down knowledge.

5. The skills needed to match the intended learning outcomes (ILOs)

By completion of the training program, the trainee should be able to:

- 1- Analyze data and problems in the plant clinic field.
- 2- Evaluate the data in the plant clinic field and measure of it as well as find solutions
- 3- Analyze the problems that linked to plant clinic field.
- 4- Find solutions to the problems that linked to plant clinic field.
- 5- Integrate different information and issues to solve the problems in the plant clinic field.
- 6- Apply the knowledge to write a systemic scientific study on a research problem in the plant clinic field.
- 7- Evaluate the risks in the professional practices in the plant clinic field.



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- 8- Collect the indices to take professional decisions in different professional contexts.
 - 9- Apply modern basic professional skills in the plant clinic field.
 - 10- Use modern apparatuses and recent methods to detect the causes of plant and pest diseases.
 - 11- Use modern apparatuses and recent methods to diagnose plant and pest diseases.
 - 12- Perform treatments to reduce the infection of various plant and pest diseases.
 - 13- Examine the effect of different plant and pest disease control methods and the influence of each method on the crop.
 - 14- Write specialized reports in the plant clinic field.