



Periodical Report
24 Months of project
implementation

New Curricula in
Precision Agriculture
Using GIS Technologies
and Sensing Data

**ABDELHAMID IBN BADIS UNIVERSITY,
Mostaganem, ALGERIA**



Co-funded by the
Erasmus+ Programme
of the European Union

Joint Project: Capacity Building in the Field
of Higher Education ERASMUS+ 2018

**Pr Hadjira BENOUDNINE
And Dr Meriem MOKHTAR**

1. PROJECT ACTIVITIES – FROM MAY 2020 TILL NOVEMBER 2020

Table 1. ACTIVITIES IMPLEMENTED THAT ARE NOT MENTIONED IN REPORT 12M (From November 2019 till May 2020)

	Question	Answer
1	<p>Please, name activities and short description of their deliverables your university implemented so far according to the project work plan.</p> <p>Please, describe activities and their results specifically for each of the Work Packages (WP1-WP5)</p>	<p>The university has implemented the following activities (+ short description of their deliverables) according to the work plan:</p> <p>WP1: Review of the current curricula for BA/MSc in target area in PC HEIs. (Already done and completed during the first 12 months)</p> <p>WP2: Development</p> <p>WP2.1 Teaching materials</p> <ul style="list-style-type: none"> -Development of new curricula/ modules ' Specialized Post Graduate Studies in Precision Agriculture using GIS technologies and sensing Data'. -The academic teachers for each course were designed. - Peer review of the PGS program - National Accreditation was not possible because of COVID 19 and constraint in procedures with stockholders - Development of a second new curricula for professional Master degree according to the Bologna requirements - The academic teachers for each course were designed.

1. PROJECT ACTIVITIES – FROM MAY 2020 TILL NOVEMBER 2020

Table 1. ACTIVITIES IMPLEMENTED THAT ARE NOT MENTIONED IN REPORT 12M (From November 2019 till May 2020)

	Question	Answer
1	<p>Please, name activities and short description of their deliverables your university implemented so far according to the project work plan.</p> <p>Please, describe activities and their results specifically for each of the Work Packages (WP1-WP5)</p>	<p><u>WP2.2. Training materials</u></p> <ul style="list-style-type: none"> - Preparation of the documentation for PAGIS and VCR including the list of equipment - Proposition of a new list of equipment for practical works in precision agriculture in conjunction with all Algerian partners and P2 and P5 partners - Final validation of the equipment lists for PAGIS, PASSENSO, VCR and practical work in precision agriculture by all Algerian partners and P2 and P5 partners. - Launch of the call for tenders and selection and selection of suppliers - Allocation of spaces and premises for the PAGES and VCR to the faculty of Natural Science and life <p><u>WP2.3. Teachers training</u></p> <ul style="list-style-type: none"> - Selection of teachers for the second session of training of July 2020 and the third session of training of September 2020. - The trainings were postponed because of COVID 19 - Pilot teaching/operation of PAGIS and VCR were postponed because of COVID 19.

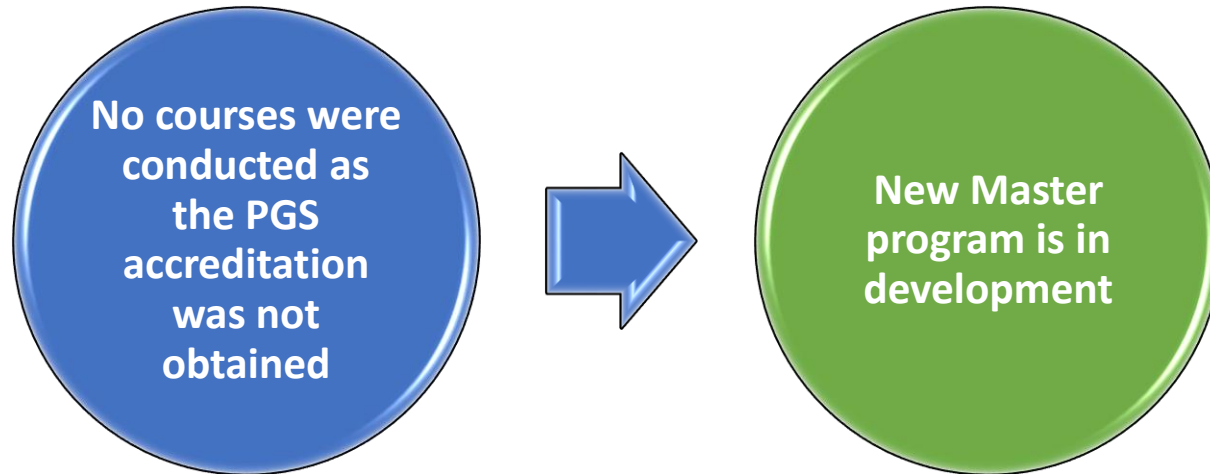
1. PROJECT ACTIVITIES – FROM MAY 2020 TILL NOVEMBER 2020

Table 1. ACTIVITIES IMPLEMENTED THAT ARE NOT MENTIONED IN REPORT 12M (From November 2019 till May 2020)

	Question	Answer
1	<p>Please, name activities and short description of their deliverables your university implemented so far according to the project work plan.</p> <p>Please, describe activities and their results specifically for each of the Work Packages (WP1-WP5)</p>	<p><u>WP3. Quality plan</u></p> <ul style="list-style-type: none"> - Ensuring the consistent progress of the work on a regular basis. - Planning of the various activities for the proper monitoring of the project. - Drafting of minutes - Ensuring that the project reports are being exchanged with the European Commission according to deadlines. <p><u>WP4. Dissemination and exploitation</u></p> <ul style="list-style-type: none"> - Erasmus days, 17th October 2020 ‘Cupagis Project dissemination webinar’ with participation of international companies in the field of precision engineering, different stakeholders, students, Phd students and researchers. - Dissemination on website (https://www.univ-mosta.dz/projet-cupagis) and Facebook <p><u>WP5. Management</u></p> <ul style="list-style-type: none"> - Everyday project coordination and administration - National and international coordination meetings related to different tasks: Covid 19, teachers training, new curricula and equipment - Identification of problems/delays

2. New Courses development process

5



3. QUALITY ASSURANCE

6

3.1 Quality Assurance Plan from November 2020 till November 2021

Steps	Expected date of delivery
Starting New developed courses /Master curricula	15 November 2020
Starting Online Master Classes	20 November 2020
Internal quality online Board meeting	January 2020
Monitoring Development courses meeting	February 2020
Peer-reviews regarding quality assessment of new master curricula	March 2020
Submitting new curricula for national accreditation	March 2020
Problems identification , adaptive and continues CUPAGIS project management and planning of Steering Committee meetings	Monthly
Zoom meeting	Each two months
Purchasing Equipment	May 2021
Pilot operation of PAGIS and VCR	Starting date 31 May 2021
Preparing intermediate report 30 Months	May 2021
Developement of questionnaires for courses evaluation	June 2020
Internal quality online Board meeting	July 2021
Preparing intermediate report 36 Months	November 2021

3. QUALITY ASSURANCE- questions

Peer-reviews regarding quality assessment of new curricula based on quality indicators (quantitative& qualitative assessment); Report on the peer review procedure: which new modules have you chosen for the peer review?

- This task have been already completed during the 18 months report

Who are/will be peer reviewers

- This task have been already completed during the 18 months report

When did you conduct peer reviews? If you haven't done it yet: When will you send the peer review questionnaire and get a feedback from peer reviewers?

- For PGS, the review was done on July 2020
- However, another peer reviews is planned to be conducted on March 2021 for the new program of Master

3.6 Please, send us the information regarding all peer reviews you have conducted already (incl. amount of peer-reviews, expert information, main conclusions in English)

Main conclusions of peer review of the PGS program addressed by Assoc. Prof. Dr. Dimo Atanasov

The Curricula of the Specialized Post Graduate Studies in Precision Agriculture Using GIS technologies and Sensing Data, offered at Abdelhamid Ibn Badis University, Mostaganem (UMAB) – Algeria is well developed. The overall concept is professional. It follows a clear academic and practical logic. Potential students will benefit from studying in this course. They would improve their options for professional realization, and would contribute to modernization of Algerian and World agriculture. The program has potential to develop continually. Professors, students and all stakeholders should cooperate in order to optimize education. After each cycle, the quality of teaching-learning will improve.

Laboratories and equipment

Titles of laboratory works that are planned to be conducted at PAGIS and VCR and which equipment is planned to be used in these works (specify modules, in which these laboratory works are planned to be conducted and at which faculties) in progress:

The **PAGIS** and **VCR** will be established on the faculty of Natural Science and Life

Laboratory works planned to be conducted on the VCR are :

- Yield sensors for precision agriculture
- Soil physical properties and its measurement
 - Plant and Crop Stresses
- Economy for Precision Agriculture
- English for Advanced Academic Purposes

Laboratory works planned to be conducted on the PAGIS are:

- Remote Sensing
- Geographic Information Systems (GIS)

5. Dissemination and Sustainability

Table 5.1.1 DISSEMINATION

	Question	Answer
1	How many and which of dissemination materials were produced (leaflets, brochures, flyers, publications etc). Please, provide designs (scans) in the presentation.	1 brochure for Erasmus days event 1 video in preparation
2	Provide a link to the Internet sources where publications about the project/dissemination materials were posted	https://www.univ-mosta.dz/webinaire-de-dissemination-du-projet-cupagis/ https://www.facebook.com/Cupagis-Project-Umab-104696277578881/
3	How many non-consortium organizations (for example, universities/teachers, students, administrative staff of universities) have been informed about the project?	More than 1000 Dissemination inside and outside university, students , teachers and different stakeholders working in agronomy

5. Dissemination and Sustainability

Table 5.1.2. DISSEMINATION EVENTS					
No	Date	Title	Target Audience	Number of participants	Is there a press-release of the event (YES/NO). If YES, provide it.
1	17 th October 2020	CUPAGIS Project Dissemination Webinar	The socioeconomic sector (Directorate of Agriculture, Associations, professionals and anyone in the field of agriculture, professionals), researchers, doctoral students and all students interested in precision agriculture using GIS technologies and data from detection are invited to attend this meeting.	100	No

Σ (Total number of dissemination events) = 16 events

5. Dissemination and Sustainability

5.2 Regional Cooperation

Within the last 6 months of the project, were any employment events/fairs conducted and how many?

Only one online event with different stockholders, PHD students, teachers. All activities were stopped because of COVID 19.

How many agreements with non-academic stakeholders/other members of the consortium/ other non-consortium members have been signed so far or are planned to be signed in the future to maintain and develop the project results?

4 agreements
(2 signed and
2 not yet)

5.3. INDUSTRIAL PARTNERS

Please, provide a list of new industrial partners, with which you maintain communication within the last 6 project months, and which could be interested in hiring your graduates

List of industrial partners:
Algerian Space techniques center-Agricultural Chamber of Mostaganem Wilaya (Farmers Database)-Agricultural Services Branch-Association of Oleiculture-Viticulture Association-Potato Association-Plasticulture Association-ArbOleiculture Association-Association of beekeepers - Forest Service

5.4 Sustainability of PASENSO Offices

PASENSO Service Office		
Nº	Question	Answer
1	Name of the person(s) responsible for PASENSO operation in your university	Dr LABDAOUI Djamel
2	Provide scan of PASENSO regulations approved at institutional level	Already done
3	Provide scan of PASENSO work plan approved at institutional level	Not yet
4	Indicate activities, that was already been implemented according to PASENSO work plan (title of activity, date, link to agenda, number of persons involved)	In Progress
5	Provide link to the PASENSO web page at the university website / FB page or any other digital source of PASENSO	Not Yet established
6	How many CUPAGIS+ agreements were signed so far?	5

6. SOCIAL AND GENDER INCLUSION

- The CUPAGIS curricula **will start on September 2021**
- The questions related to social and gender inclusion are not relevant at this step of the project

7.1 COMMUNICATION PROCESS,

- Inform us which means of communication you use to communicate with other PC Universities, EU partners, the Coordinator and other project participants:**
- Both local and international communications were provided mainly by emails, zoom meetings or phones.
- Communicating with online messaging applications allow us to reduce the calls cost and and also avoid a robable contamination with coronavirus.
- advantages/disadvantages of the means of communication that you use?**
- Zoom meeting are not free of charges.

7.2 ADDITIONAL INFORMATION

- If you have any other additional important information, complaints, suggestions, problems with the project implementation process (or other project related processes) that you want to discuss/report, please, inform us about it.**
- Actually, No problem. Main problems are resolved with communication between partners



Thank you for you attention!

Pr.Hadjira BENOUDNINE & Dr Meriem MOKHTAR
Coordinator & Quality Assurance Responsible

Emails: hadjira.benoudnine@univ-mosta.dz,
meriem.mokhtar@univ-mosta.dz
Mokhtar.meriem@yahoo.fr
vrcc@univ-mosta.dz



Co-funded by the
Erasmus+ Programme
of the European Union