



Periodical Report
12 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

Prof. Hadjira BENOUDNINE

1. UPAGIS Project evolution at UMAB



Training the trainers
First workshop at Technical University of Berlin

19-30 August 2019

Berlin training report and presentation

5 September 2019

Information day for stakeholders and local press

22 September 2019

Information day for students and teachers

23 September 2019

First survey
Report based on the questionnaires , conducting analysis and reports

30 Septembre 2019

Internal coordinating Meeting: Presentation of the details of the training Material of Berlin and sharing all the courses and videos

14 october 2019



1. CUPAGIS Project evolution at UMAB



Second Internal coordinating Meeting: List of equipment discussion and quality report presentation
 20 October 2019

Local Radio Meeting for disseminating CUPAGIS project
 22 October 2019

Third Internal meeting: New curricula discussion
 27 October 2019

Starting working on new curricula program proposal
 10 November 2019



3. New Curricula proposal

At the beginning of the CUPAGIS project, the UMAB team involved in the project have decided to propose new Professional Master program in' Precision Agriculture Using GIS Technologies and Sensing Data'. But:

- **Only one train of trainers session** (August 2019, Berlin) was done
- **Only one teacher from UMAB has attend to this session** because of **the procedure of Visa.**
- The **others sessions of training are postponed to July and September 2020**

The CUPAGIS Team of UMAB has decided after discussions

- **to propose for this year (2020-2021) new program on postgraduate studies named Specialized Post-Graduation for different stakeholders in the Area of Agronomy. The title of this new program is ' PGS on Precision Agriculture Using GIS Technologies and Sensing Data' ,**
- **NB:** UMAB should sign agreements with stakeholders before submitting the proposal for accreditation
- **To prepare the new curricula of the** Professional Master program in' **Precision Agriculture Using GIS Technologies and Sensing Data' for 2021-2022,**



3. New Curricula proposal

Title of the possible new course	Name of the person(s) responsible for update + email	ECTS and hours for lecture/practical work	Teaching materials that will be used
Introduction to GIS	Dr Farah Tahar Email : ferahtahar@yahoo.fr	4ECTS/80/20 h	*Articles, New bibliographic references, books. *Mapped data base and agricultural data base. Use of electronic resources * softwares and computers
Yield sensors for precision agriculture	Dr Abed Mansour /Dr Merah Mostéfa Emails: frere_de_tout_le_monde@yahoo.fr merah_mustapha@yahoo.fr	6 ECTS/ 95 h/55 h	-Yield Sensors - Devices, softwares and computers
Soil physical properties and its measurement	Dr Sassi Belguet	6ECTS/ 95h/ 55 h	-Devices for measurement of soil moisture, soil infiltration, index of penetration.
Remote sensing applications for precision agriculture	Dr Farah Tahar Email : ferahtahar@yahoo.fr	6ECTS/95h /55 h	*Images processing software's * GPS measurements Computers open sources softwares
GNSS overview	Prof hadjira Benoudnine/ Dr Abed Mansour Emails: Hadjira,benoudnine@univ-mosta,dz frere_de_tout_le_monde@yahoo.fr	4 ECTS/55 h/45 h	Work with GPS and GNSS data Practice applications
Economic Efficiency Of Precision Agriculture. Optimal Use Of Resources	Dr Labdaoui Djamel Email: labdadjam@yahoo.fr	6 ECTS/95h/55h	*Scientific articles * Books
Plant and crop stresses	Dr Mahiout Djamel Email: djamel.mahiout@univ-mosta.dz	6 ECTS/95 h/55 h	Scientific articles * Books
English for advanced academic purposes	Dr Meriem Mokhtari Email: meriem.mokhtar@univ-mosta.dz	2 ECTS/ 50h	Scientific articles * Books
Workshops on precision agriculture and data analysis	Invited professionals	2ECTS/ 25 h/ 25 h	- Numerical platforms - Visiting profsors
Final Project	All teachers	18 ECTS/ 450h	Individual work



4. Future procedure of accreditation

Accreditation procedures

- **March 2020**: *The professors of the UMAB should submit the proposal of the new program to the scientific council of the faculty for approval*
- **April 2020**: *After local approval, the proposal is transferred to the regional scientific and pedagogical council for regional approval*
- **May 2020**: *the best selected proposals will be sent to the ministry of higher education for accreditation*
- **July 2020**: *The national accreditation*

5. Quality Assurance

Quality indicators

- Student Experience Survey, measuring learning experiences and satisfaction of current students
- the Graduate Outcomes Survey – Longitudinal, providing information on medium-term graduate labour market outcomes

List of possible peer reviews

- The peer reviewers are anonymous, at the institutional level they are chosen by the scientific council of the faculty
- At regional and national level, at regional and national level, experts are anonymous

Work plan

1. **Questionnaires distribution:** Maximum 15 September 2020
2. **Report and survey :** Maximum 30 September 2020
3. **Annual reporting :** October –November 2019, Oran Algeria
- 3.1 SWOT Analysis and Action Plans
- Presentation a quality evaluation report during a national Workshops to discuss strengths, weaknesses, opportunities and threats of establishing New master professional and Passenno
4. **First quality Board meeting :** October –November 2019, Oran Algeria
5. Quality Evaluation report –Interim : Mars 2020
6. Problems identification , adaptive and continues CUPAGIS project management
7. Analyse of list of Equipm

6. Dissemination and sustainability of the

All channels are used for dissemination

- Infos days
- Meetings
- Cluster meeting of the European project

- University Web site

<https://www.univ-mosta.dz/projet-cupagis/>

Facebook page

<https://www.facebook.com/projet-cupagis/>

- Local radio

- Two dissemination meetings have been already carried out in:
 - 09th June 2019: First Local Dissemination Meeting of the CUPAGIS Project (The 1st CUPAGIS DLM'2019) at the University of Mostaganem, FSNV.
 - 22th September 2019: Second Local Dissemination Meeting of the CUPAGIS Project (The 2nd CUPAGIS DLM'2019) at the University of Mostaganem, FST.
- **Plan of future dissemination activities until May 2020**
- 8-9 December 2019: Participation (posters) at the 6th Edition of the International Conference: ISPA'2019 (International Conference on Image and Signal Processing and Their Applications), Organizers: University of Mostaganem and Laboratory Signals and Systems (LSS)
- 24th December 2019: Third Local Dissemination Meeting of the CUPAGIS Project (The 3rd CUPAGIS DLM'2019) at the University of Mostaganem, Kharuba.
- 25th December 2019: participation in a TV show on A3, publication of a Press Release and dissemination on websites and Facebook.
- 21st march 2020: Publication of a Press Release, Conception of flyers and their distribution, dissemination on websites and Facebook, Broadcast on the Moodle FSNV platform.

Rooms for equipment

The rooms of the equipment are located on the faculty of natural sciences and life

There are two rooms one for the PAGIS and the second one for the VCR.

the PASSENSO office is composed of two rooms, one for the secretary and the second one for the director

Communication process

Both local and international communications were provided mainly by emails or messaging applications like skype, whatsApp but sometimes by phones

Communicating with messaging applications allow us to reduce the calls cost and enable us to organize meeting via skype with no travel fees or waste of time



Thank you for you attention!



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

Prof. BENOUDNINE Hadjira
Vice Rector for Foreign Relations and Cooperation
[Emails Hadjira.benoudnine@univ-mosta.dz](mailto:Hadjira.benoudnine@univ-mosta.dz)
hbenoudnine@gmail.com
vrcc@univ-mosta.dz