

**Periodical Report  
6 Months of project  
implementation**

**New Curricula in  
Precision Agriculture  
Using GIS Technologies  
and Sensing Data**

**IBN KHALDOUN TIARET UNIVERSITY**



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

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

**By M. MAATOUG**

# Work plan

- Work packages responsible appointment

N°	Title	Responsible	Email
WP01	Review of the current curricula for BA/MSc	Dr. Lazreg BENAICHTA	<a href="mailto:Lbb55@yahoo.com">Lbb55@yahoo.com</a>
WP02	Prepare a set of new core curricula	Pr. Tayeb ALLAOUI	<a href="mailto:allaoui_tb@yahoo.fr">allaoui_tb@yahoo.fr</a>
WP03	Strategy assurance quality / quality plan (QP)	Dr. El Hadj BEKI	<a href="mailto:abekkihadj@yahoo.fr">abekkihadj@yahoo.fr</a>
WP04	Project dissemination and communication plan	Dr. Benchohra MAAMAR	<a href="mailto:benchohra_19@hotmail.fr">benchohra_19@hotmail.fr</a>
WP05	Management project	Pr. Mhamed MAATOUG and Pr. AEK DELLAL	<a href="mailto:maatoug.moh@gmail.com">maatoug.moh@gmail.com</a> <a href="mailto:dellal05_aek@yahoo.fr">dellal05_aek@yahoo.fr</a>



# Courses to update

## List of current courses

- Computer proficiency
- Mathematics
- Geodesy and cartography
- Soil science
- Agrarian chemistry
- Integrated plant protection, plant anatomy, morphology, physiology and biochemistry
- Ecology, agrarian ecology and environment protection
- Agricultural machinery and crop production



# Courses to update

Name of the course to be upgraded	Person/teacher/department/faculty responsible for the course upgrade	What has to be upgraded in the course?	Deadlines
<b>data analysis using satellite data.</b> <b>Spatial Databases and Infrastructures</b>	Dr. Siabelhadi ahmed. Computer science department	Algorithmic and data structure	01 month
<b>Management Marketing and Decision Making in Precision Agriculture.</b> <b>Application of Precision Agriculture for crops growing.</b>	Dr Zoubeidi Malika Dr. Oulbachir Karima Agronomic department Natural sciences faculty	Precision Agriculture	01 months



# Courses to update

<b>Time series extraction and analysis of satellite data.</b>	<b>Dr Beniaichata Lazreg</b>	<b>Real time data management</b>	<b>01 month</b>
<b>Spatio-temporal analysis of satellite data.</b>	<b>Dr. Bachir KADDAR</b>		
<b>Time series analysis of satellite snow cover data</b>	<b>Dr. Benchohra MAAMAR</b>		
<b>Statistical modelling of water availability using the satellite snow cover data</b>	<b>Dr. Islem BOUACHA</b>		
<b>Quality assessment of MODSNOW-processing and modelled results</b>	<b>Agronomic department Natural sciences faculty</b>		



# Courses to update

<b>Soil physical properties and its measurement.</b>	<b>Dr. Bouchenafa Nadia</b> <b>Dr Oulbachir Karima</b> <b>Agronomic department</b> <b>Natural sciences faculty</b>	<b>Soil physical properties</b>	<b>01 month</b>
<b>GIS Internet, Mobile, and Distributed GIS</b>	<b>Dr. Siabdelhadi ahmed.</b> <b>Dr. Douelkifl MANSOURI</b> <b>Computer sciences department</b> <b>Computer sciences faculty</b>	<b>Technologie Web</b>	<b>01 month</b>



# Criteria for teacher selection for trainings

Criteria of selection were mainly based on :

- Professional experience
- Language and communication skills
- Use of new technologies
- Relation with the project (field of expertise)
- Availability



# Equipment & Software

Equipment/Software	Name of the person(s) responsible for the equipment/software installation	Occupation of the responsible persons	Contact information of the responsible persons
Installation of operating systems, development of web pages,	Saim Mohamed	Computing center	Mohamed SAIM <mohamed.saim@univ-tiaret.dz>
Software installation: ArcGis, R, Mapinfo	Si abdelhadi Ahmed	Computer science department	Ahmed Siabdelhadi <ahmed.siabdelhadi@gmail.com>
Computer maintenance	Smain Mhamed	Computing center	Smail Mhamed <smail.mhamed@gmail.com>





# Dissemination plan

- Develop a plan for dissemination and sustainability of the project in UIT university, including activities on involving new participants in the project.
- Operation starting of the first version of the WEB platform.
- Full media coverage of the project activities inclusive developing and maintenance of Joint WEB based platform,
- Organize dissemination of leaflets about the project among students and teachers

**NB:**

*There will be open days at the university on July 20, 2019, for new baccalaureate students. The Cupagis group will take advantage of this opportunity, and present posters to explain the Precision Agriculture disciplined, which will be introduced in the university next year.*



# Non-consortium organizations

## List of non-academic partners and organizations

No	Futur Stakeholder
1	Chamber of Agriculture of Tiaret
2	National Institute of Irrigation and Drainage
3	farm pilot farms in Tiaret

## List of stakeholders contacted for involvement in project activities (under discussion).

No	Stakeholder
1	Agricultural Services Branch of Tiaret
2	Technical Institute of Field Crops (ITGC) of Tiaret
3	Forest Directorate of Tiaret
4	Hydraulics Directorate of Tiaret
5	Environment Directorate of Tiaret



# Implemented dissemination activities

1. Project DISS & EXP /communication plan using a Set of Promotional Materials; Dissemination Events, Joint WEB based platform, “CUPAGIS+” Agreement
2. Develop a plan for dissemination and sustainability of the project in UIKT, including activities on involving new participants in the project
3. Operation starting of the first version of the WEB platform.
4. Full media coverage of the project activities inclusive developing and maintenance of Joint WEB based platform (university, facebook page, MOODLE patform)
5. Organize dissemination of leaflets about the project among students and teachers.

## *Pasenso group*

Name, Surname	Occupation	Organization	Contact info (email)
Dr. MAAMAR Benchohra	Teacher	Tiaret University	<a href="mailto:benchohra_19@hotmail.fr">benchohra_19@hotmail.fr</a>
Dr.BOUACHA Islem	Teacher	Tiaret University	<a href="mailto:islem2989@yahoo.com">islem2989@yahoo.com</a>
Prof. Lahcen GUEDDA	Vice Rector of External Relations	Tiaret University	<a href="mailto:lahcene_guedda@yahoo.fr">lahcene_guedda@yahoo.fr</a>



# Quality Assurance Plan

Name, Surname	Occupation	Organization	Contact info (email)
Dr. GUEMMOU Mhamed	Vice Rector of pedagogy.	Tiaret University	<a href="mailto:guemoumamed7@gmail.com">guemoumamed7@gmail.com</a>
Dr El Hadj BEKI	Teacher	Tiaret University	<a href="mailto:abekkihadj@yahoo.fr">abekkihadj@yahoo.fr</a>
Dr BENSABEL El Hadj	Teacher	Tiaret University	<a href="mailto:benhebalh@yahoo.fr">benhebalh@yahoo.fr</a>



# Quality Assurance Plan

1. Periodical reports are to be done to assure the quality, reports conclusion are driven from questionnaire dedicated to the project understanding and the level of commitment, problems encountered, means needed...etc.
2. It is essential to accompany members of the project and propose internal/external Quality evaluation/reports according to Q Plan
3. Update of UIT quality assurance plan
4. Development of recommendations for quality indicators for peer review of new curricula/courses
5. Periodical survey of students (preparation of a questionnaire) in order to assess quality of master classes; lectures during the pilot teaching
6. External quality evaluation



# Questionnaire for students

CUPAGIS STUDENT QUESTIONNAIRE / draft

Indicative Questions to determine the level of awareness about the CUPAGIS project among students and teachers of PC universities

Questions indicatives pour déterminer le niveau de connaissance du projet CUPAGIS parmi les étudiants et les enseignants des universités PC

Nom et prénoms : .....

Qualité : Enseignant/Étudiant : spécialité : .....

N°	The questionnaire
1	Do you know about the program ERASMUS+?  Connaissez-vous le programme ERASMUS +?
2	Do you know about the project CUPAGIS?

There has been a translation of question to french to make it easy for students/teachers to answer the questionnaire.



# Questionnaire for students


CUPAGISSTUDENT QUESTIONNAIRE / draft

Indicative Questions to determine the level of awareness about the CUPAGIS project among students and teachers of PC universities

**Number of participants:**

- Students: 30

- Teachers: 12

No	The questionnaire
1	<p data-bbox="324 565 869 590">Do you know about the program ERASMUS+?</p>  <p data-bbox="527 637 1006 659">Do you know about the program ERASMUS+?</p> <p data-bbox="884 678 942 736">■ Yes ■ No</p> <p data-bbox="691 729 736 751">0%</p> <p data-bbox="653 816 768 838">Yes; 100%</p>
2	Do you know about the project CUPAGIS?



## Installation of a PASENSO officer.

No	Futur Stakeholder
1	Chamber of Agriculture of Tiaret and Agriculture Direction
2	National Institute of Irrigation and Drainage
3	Farm pilot farms in Tiaret





## The communication is done through:

- E-mail
- Phones calls
- Facebook
- web pages
- newspapers
- periodic meetings with Algerian partner universities

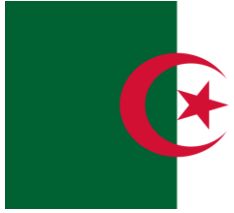


# Additional information

Some issues are raised by project members such as:

- Details before the training program and schedule.
- More information about the PASENSO office, how it works, better job planning (mandatory training) is needed.
- More information on the financial management of the program.





Thank you for you attention!

**Prof. M MAATOUG**

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