

Main themes

1 - Precision Agriculture: basics and principles

2 - Geographic information systems

3 - Remote sensing and its applications in agriculture (crop mapping and monitoring)

4 - Communication skills and information technologies regarding marketing and sustainability of precision agriculture

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Organizing committee

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CUPAGIS

is a CBHE ERASMUS+ project involving 10 Algerian and European partners. The aim is to create and modernize curricula in precision agriculture using new technologies in physical sciences, such as Geographic Information System (GIS), big data, remote sensing.

The sequence of events at the University of TIARET includes training sessions for students enrolled in the master studies of precision agriculture in Algerian universities, master classes and the final seminar. The main target of students' training is improvement of communication skills. The themes focus on the use of new technologies in precision agriculture. The final seminar contributes to periodic meetings of partner universities for the evaluation of projects of new training offers in Algeria, in precision agriculture. It is also about restituting the reports of the member teams and the different work packages.



People's Democratic Republic of Algeria
Ministry of Higher Education & Scientific Research
IBN KHALDOUN University of TIARET
Laboratory of Agrobiotechnology & Nutrition in Semi-Arid zones



Students training Master classes, final conference & report restitution
"New Curricula in Precision Agriculture Using GIS Technologies and Sensing Data"



TIARET 25th September to 05th October 2022



Training Program

Sunday 25th September

09h30-10h30: Opening ceremony

10h30-12h00: Basics and principles of Precision Agriculture

12h00-13h30 Lunch

13h30-15h00 : L'Agriculture de précision : une alternative pour la réhabilitation du système agraire en Algérie

15h00-16h30 : Techniques d'informations et de communication

Monday 26th September

8h30-10h00 : Introduction aux systèmes d'information géographique

10h00-13h30 Coffee break

10h30-12h00: Plant physiology: Secondary metabolites

13h30-15h00 : Méthodes de cartographie de l'occupation des sols agricoles, se basant sur le calendrier cultural de la région.

15h00-16h30: General laws of telluric radiation

Tuesday 27th September

8h30-10h00: Mechatronics of objects in the field of agriculture

10h00-13h30 Coffee break

10h30-12h00: Automated greenhouse.

12h00-13h30 Lunch

13h30-15h00: Crowdsourcing of Environmental Noise Maps using Smartphones: processing and creating a cartographic display using GIS tools (Part01).

15h00-16h30: Crowdsourcing of Environmental Noise Maps using Smartphones: processing and creating a cartographic display using GIS tools (part02).

Wednesday 28th September

08h30-10h00: Overview of GNSS: General characteristics of GNSS (Master class)

10h00-13h30 coffee break

10h30-12h00: Global and regional navigational satellite systems (Master class)

12h00-13h30 Lunch

13h30-15h00: GNSS in favour of small farmers (Master class)

15h00-16h30: The challenge: communication in three minutes

Thursday 29th September

08h30-10h00: Crop monitoring using sentinel imagery

10h00-13h30 coffee break

10h30-12h00: Crop monitoring using sentinel imagery

12h00-13h30 Lunch

13h30-15h00: Basics of communication in marketing (part 01)

15h00-16h30: Introduction to the use of satellite information (part 01)

Friday 30th september

08h30-10h00: Basics of communication in marketing (part 02)

10h00-13h30 coffee break

10h30-12h00: Cooking an appealing presentation for wide public (Master class)

12h00-13h30 Lunch

14h00-15h30: Introduction to the use of satellite information (part 02)

15h00-16h00: Science communication: a serious entertainment? (Examples from the experience of the Estonian Academy of Sciences)

Saturday 1st October

08h30-10h00: Scientific writing for publication (Master class, part 01)

10h00-13h30 coffee break

10h30-12h00: Scientific writing for publication (Master class, part 02)

12h00-13h30 Lunch

13h30-15h00 : L'innovation, atout principal pour le développement économique et agricole en Algérie. Etude de cas : le secteur de l'oléiculture

15h00-16h30: Scientific writing for publication (Master class, part 03)

Sunday 2nd October

08h30-10h00: Crops mapping using SAR & optical remote sensing data

10h00-13h30 coffee break

10h30-12h00: Agriculture technologization redline in precision context

12h00-13h30 Lunch

13h30-15h00: Automation and programming of irrigation in agriculture

15h00-16h30: Three Minute Lectures: Students' competition in scientific writing and oral presentation

Program of the event



Monday 3rd October

CUPAGIS Final Conference – Project reports restitution.

08h30-09h00

Opening ceremony.

09h30-10h00

CUPAGIS: a step towards future
Pr. Tarmo Soomere, Coordinator

10h00-10h30 coffee break

10h30-11h00

University Ibn Khaldoun Report.
Dr. Bouacha Mohamed Islem. PASENSO

11h30-11h30

University Ahmed Ben bella Oran1 report.
Pr. Yahia Lebbah. Local coordinator

11h30-12h00

University Djillali Djillali Liabes Sidi bel Abbès.
Pr. Kadoun Abdeldaim. Local coordinator

12h00-13h30 Lunch

14h00-14h30

National Higher School of Agronomy, El Harrach,
Algiers.
Pr. Laribi Abdelkader. Local coordinator

14h30-15h00

University Abdelhamid Ibn Badis of Mostaganem
Pr. Benoudnine Hadjira. Local coordinator

15h00-15h30 coffee break

15h30-17h00

Recommendations for precision agriculture sustainability.

10h00-13h30 coffee break

Tuesday 4th October

Field visit. Pilot farm of a stakeholder. INRAA