

PhD School in Aswan - Program 19/11 - 2/12 (*)

WEEK 1

	Saturday 19/11	Sunday 20/11	Monday 21/11	Tuesday 22/11	Wed. 23/11	Tuesday 24/11	Friday 25/11
09:00-10:30	Travel to Aswan	Opening ceremony and introduction of the projects and partners. Introductory module: WEFE Nexus state of affairs, Trade-offs and impacts (Aswan University)	Smart Agriculture Applications (Dr. Wagdi Saber Ahmed) - Aswan University	Influence of Climate Change on Food Safety (Prof. Stavros Kalogiannis) - CITY College	The smart specialization in the agri-food sector: The case of "nutraceuticals" (Prof. Stavros Kalogiannis) - CITY College	Research Intelligence (Prof. Boshra Salem - online) - Alexandria University	Open group discussion, evaluation forms and social activities - (Aswan University)
11:00-12:30		Sustainable Agriculture and Biotechnology (Prof. Mohamed Ahmed Abou-Elail) - Aswan University	Hydroponic and aquaponic systems (Dr. Khalid Gamal Abd el Rasheed) - Aswan University	Internet of Things (IoT) and Earth Observation (EO) for growing farm yield and Improving resource efficiency (Prof. Ioannis Sampsonidis) - CITY College	Disease and insect pest management and principles of DSS (Prof. Ioannis Sampsonidis) - CITY College	Applications of Open Source geospatial software in Precision agriculture (Assoc. Prof. Marwa Halmy) - Alexandria University	
14:00-15:30		Technical visit to the labs of the faculty of Agriculture - Aswan University	Energy in the 21st Century (Prof. Osama ElShazly) - Alexandria University	Convivial Spaces (Prof. Indjy Shawket) - Heliopolis University	Eco-urban regeneration (Prof. Indjy Shawket) - Heliopolis University	Technical visit to the Aswan Botanical Garden - (By Aswan University)	
30 minute break							
13:00 - 14:00 Launch (Total 90 minute break)							

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WEEK 2

Saturday 26/11

Sunday 27/11

Monday 28/11

Tuesday 29/11

Wed. 30/11

Tuesday 01/12

Friday 02/12

09:00-10:30

Excursion to the Aswan big dam (By Aswan University)

Crop reference Evapotranspiration and crop water requirement (Prof. G. Provenzano) - University of Palermo

Sprinkler irrigation: operation, management and evaluation Prof. Leonor Rodriguez Sinobas) **online** - Politechnic University Madrid

Drip irrigation: operation, management and evaluation (Prof. G. Provenzano) - Politechnic University Madrid

Land Suitability Evaluation using remote sensing (Mr. Richard Gramlich) - RWTH Aachen University

Integrated Pest management (IPM) (Dr Mugwanya Muziri) - American University in Cairo

Working group regarding the followed activities (Aswan University)

30 minute break

11:00-12:30

Using reanalysis database of climate variables to estimate crop reference evapotranspiration (Prof. G. Provenzano) - University of Palermo

Estimation of crop coefficients by satellite images and water use efficiency of corn - (Dr. Daniel Segovia) **online** - Politechnic University Madrid

Sensors and models for irrigation water management (Prof. G. Provenzano) - University of Palermo

Desalination (Mr Florian Balmes) - RWTH Aachen University

Aquaponics & Hydroponics (Dr Khaled Madkour) - American University in Cairo

Closing Ceremony, Photos, Certificates (Aswan University)

90 minute break

14:00-15:30

Introduction of Remote sensing to estimate actual crop water requirement (Dr. Dario De Caro) - University of Palermo

Potential of Google Earth Engine and Vegetation indices (Dr. Dario De Caro) - University of Palermo

Application of Remote sensing to estimate actual crop water consumption (Dr. Dario De Caro) - University of Palermo

Reservoir sedimentation (Ms. Ricarda Lothmann) RWTH Aachen University

Open group discussion, evaluation forms and future opportunities (Aswan University)

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