

# M.Sc. in **Natural Resources Sustainability for Land Development** (NRSLD)

Under the framework of the SuReMap Erasmus+ project



























#### SuReMap

(Sustainable Resource Management Programme to solve Deserted Challenges) Aims to establish interdisciplinary programs that train students to address water, energy & food-related challenges in "Egypt's 2030 strategy".



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#### **APPLY**

Apply at:

Office of Graduate Studies Affiars **Faculty of Science - Alexandria University** 1 Bagdad Street, Moharram Beck 21511 Alexandria, Egypt mob: +20 102 294 2244

#### **CONTACT US**

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Department of Environmental Science Faculty of Science - Alexandria University



## **Program Structure**



#### Co-funded by the Erasmus+ Programm of the European Unio

### **NRSLD PROGRAM**

#### Vision

NRSLD program aims to prepare students with the knowledge and experience for the management and sustainable development of drylands' natural resources in the local, regional, and international related sectors.

#### **Mission**

The Faculty of Science through NRSLD program seeks to qualify the graduates to be competitive at local, regional, and international levels, by creating an appropriate educational environment and fostering ethically, scientifically and professionally sound approaches that enable graduates to serve the community and the institutions closely related to sustainable development plans.

### **SuReMap Consortium**

NRSLD is an outcome of the SureMap Erasmus+ project that includes a consortium of 8 Egyptian and European universities. The program is cooperatively designed by the consortium, therefore; it has the advantage of the international and interdisciplinary perspective, European framework of recognition, and benefits from a wide network of participating professors from the following universities:

- •RWTH Aachen
- Heliopolis University
- Alexandria University
- •CITY College Sheffield University
- •The American University in Cairo
- University of Palermo
- Aswan University
- •Technical University of Madrid

#### **2 YEARS (4 SEMESTERS)**

The student completes 60 ECTS of core courses, 30 ECTs of elective courses, and 30 ECTS for M.Sc. thesis.

#### **SEMESTER 1 & 2: 60 ECTS CORE COURSES**

- •Introduction to Sustainability Management
- Sustainable Development
- •Sustainable Water Resources Management
- •Sustainable Energy Resources and Management
- Sustainable Management of Marginal Drylands
- •Sustainable Farming Systems: Hydro and Aquaponics
- •Green Entrepreneurship and Agribusiness
- Environmental Hydrology
- Projects Management
- Scientific Methodologies and Research Ethics

#### **Semester 3: Select 30 ECTS of Elective Courses**

- Hydrogeology
- •Climate Smart Agriculture and Crop Adaptation
- Solar Energy Systems
- •Environmental and Resource Economies
- •Integrated Cropping Systems in Drylands Farming
- •RS & GIS for Natural Resources Management
- •Environmental Management and Legislations
- •Sustainability Issues and Challenges
- •Sustainable Community-based Natural Resources Management
- •Toward a Sustainable Global Food system
- Irrigation and Drainage Engineering: Sustainable Strategies and Systems
- Recycling of Wastes
- •Land Degradation and Sustainable Agriculture
- Land suitability & Land Use Planning
- •Desert Land Reclamation

#### **SEMESTER 4: 30 ECTS FOR M.SC. THESIS**

NRSLD is designed to comply with the Bologna Declaration and according to the demands of the Strategic Frameworks for European Cooperation in Education and Training (ET 2020).





#### Language

English is the medium of instruction. Students are expected to demonstrate an acceptable level of English proficiency.

### **Admission Requirements:**

Holds a B.Sc. in science, agriculture, or engineering with a minimum CGPA of 2.33 (Good) from an Egyptian, Arab, or Foreign Higher Education Institution.

