

On-line Course on
Selection of best suitable sites for Water Harvesting
structures through GIS and Remote Sensing

4 ECTS

The Department of Agricultural, Food and Forestry Systems (GESAAF) of the University of Florence organized an on-line Course on “*Selection of best suitable sites for Water Harvesting structures through GIS and Remote Sensing*”.

The course is about water harvesting seen as activities of collecting, conveyance and storing water obtained from different sources (fog, rain water, runoff, flood water, etc.) and made it usable for many purposes. In many water scarcity prone areas, it is necessary to catch any form of water is available, making water harvesting an adaptation to climate change. The course is focused on the procedure for selection the more appropriate sites for water collection, through the integration of available data on a study area and satellite data, through the application of GIS.

Lecturers:

- **Prof. Nezar Hammouri**
Hashemite University, Zarqa, Jordan
- **Prof. Eyasu Yazew**
Institute of Water and Environment, Mekelle University, Ethiopia
- **Dr. Edwin Rodriguez Valle**
Rain Foundation Ambassador for Andean countries
- **Prof. Fabio Castelli and Prof. Elena Bresci**
University of Firenze

The course will be taught in English

Course contents:

The course consists of lectures and case studies on the following subjects:

- Water scarcity and water harvesting structures
- Spatial modelling with GIS and RS sharing local knowledge at small scale basin
- GIS based decision rules
- Case studies from different countries (Kenya, Somalia, Brazil, etc.)

10 participants from countries where the issue of water scarcity and access to water is a limiting factor for the development, and where payment of the registration fee can be a hindering factor for enrollment in the course, can be enrolled with **NO TUITION**. A selection of the applicants will be made by a Commission of 3 professors of the University of Florence based on the *curriculum vitae and studiorum*.

10 places are reserved for BSc and MSc students of the University of Florence

5 places are reserved for PhD students of the University of Florence

Course date, fee, ECTS:

- ON-LINE Course available on Moodle platform from 09 January 2017
- End on line: 30 September 2017
- Deadline UNIFI for application: 25 November 2016
- Course fee: € 150
- Requirements for admission: High school diploma
- 4 ECTS
- The course will not be activated if the inscriptions do not exceed 5

For information and contacts:

Professor Elena Bresci (Course Coordinator)

elena.bresci@unifi.it

For application, fill the on-line form

- as an ordinary candidate
- as a student enrolled in undergraduate or graduate courses of the University of Florence
- as a student enrolled in any PhD program offered by the University of Florence
- as a candidate from emerging countries