

**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**. The selection among the applicants will be made by a Commission of 3 professors of the University of Florence based on the *curriculum vitae and studiorum*.



**Course date, fee, ECTS:**

- ON-LINE Course available on **Moodle platform** from 09 January 2017
- End on line: 30 September 2017
- **Deadline UNIFI application: 25 November 2016**
- Requirements for admission: High school diploma
- **Course fee: € 150**
- **4 ECTS**

For information and contacts:  
**Professor Elena Bresci (Course Coordinator)**  
[elena.bresci@unifi.it](mailto:elena.bresci@unifi.it)

For application [LINK](#)

**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.)

The course is about 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

**On-line Course on  
 Selection of best suitable sites  
 for Water Harvesting  
 structures through GIS and  
 Remote Sensing  
 (2016-2017)  
 4 ECTS**



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 DEPARTMENT OF  
 AGRICULTURAL, FOOD AND  
 FORESTRY SYSTEMS



