



Course Announcement

Use of Earth Observation tools and GIS in Support of Integrated Water Resources Management (Using Water Observation and Information System - WOIS)

Earth Observation is a widely applied method for measuring, monitoring and understanding the atmospheric, terrestrial and aquatic environments of the Earth (and other planets). Information extracted from satellite images is used in many ways as a basis for mapping and monitoring changes in the biophysical and physical properties of water resources. It is also integrated in Geographic Information Systems (GIS) with other spatial data monitoring and management resources for decision making.



The **Kenya Water Institute (KEWI)** together with the **University of Twente** - Faculty of Geo-Information Science and Earth Observation (ITC) and the **TIGER** Capacity Building Facility which is a **European Space Agency ESA** supported project will conduct a course on “Use of Earth Observation and GIS in support of IWRM” from **3rd to 7th December 2018** at KEWI’s Nairobi campus located in south C.

The objective of the course is to enable water resources professionals to solve environmental science, monitoring, planning and management problems by selecting appropriate remote sensing data set and applying the relevant image processing, interpretation and analysis techniques for detecting and measuring related parameters. The course provides hands-on training and will be very practical, based on the Water Observation and Information System (WOIS), which is a plug-in of QGIS for processing EO data. The system integrates various tools and models in customized workflows.

Training Target and Content:

This is a practice-oriented course for water managers, dam experts, practitioners and academia in the water resources sector. The training will focus on water quality monitoring, land degradation monitoring and water bodies mapping from space. Other workflows in WOIS not mentioned above will also be discussed.

Course costs and venue

The venue of the course is Kenya Water Institute (KEWI), Nairobi campus, South C, ole-shapara avenue. The cost of the training is KSh 30,000 (USD 300) and will cover tuition. Participant will be required to cater for their own accommodation and travel expenses. **Special offer:** Kenyan student’s fee will be Ksh 20,000 (USD 200)

How to apply:

Interested applicants will need to fill in the application form linked below.

<https://docs.google.com/forms/d/1km6lrmhuyQQbyjEGwki8ZxBC4njsBLIrJLI4AGcB8H8/edit>



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