

TOPIC 6

Integrated Capacity Building Program for Water Resources Management

Background

The water sector in all Islamic Countries is faced with enormous problems; (i) Institutional, (ii) Legislative, (iii) Technical, (iv) Environmental, (v) Financial, (vi) Dominance of political decisions over technical area, (vii) Lack of stakeholders participation, ... In all countries, there is a need to provide for :

1. A well trained pool of national experts with a comprehensive knowledge of at least the basics of IWRM.
2. An established mechanism for information dissemination and decision support tools.

Objective

Design a multi – disciplinary capacity building program including the basic knowledge for WMR including some of the following:

- Water resources assessment
- Soil – water – plant relationships
- Hydrological in
- Basics of Water Quality Management
- Development of GW Resources
- Introduction to Environmental Engineering Principles
- Global environmental conventions impacting WRM
- Water treatment technologies
- Modeling of Runoff, Recharge, GW (flow and contaminant transport)
- Modern irrigation techniques
- Reservoir sedimentation
- Virtual water analysis and ecological footprints.
- Advanced tools for WRM; Remote sensing, Isotopic analysis, GIS (related application), Modeling techniques.

Methodology

- Inter cooperation between universities to develop courses

- Periodical dissemination (say 4 times per year covering); (i) East Asia, (ii) West Asia, (iii) North Africa, (iv) Central Asia and East Europe.