

## Hydrology & Integrated Water Resources Management

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The subject matter deals with the distribution of water resources in both space and time. The science of Hydrology is an inter-disciplinary subject which incorporates water resources management and utilization. It embraces the scientific understanding of the hydrological (water) cycle as well as the aspects of water distribution on global scale and impacts of human activities on the water resources. It further integrates the management of water resources with conservation to afford a sustainable utilization of water resources for human prosperity by integrating aspects of environmental conservation and management. Hydrology and Integrated Water Resources Management (IWRM) emphasizes the complexity of water resources management, which should integrate: (1) all the water occurrences and interactions in the hydrological cycle; (2) all the different uses that society has for water and the interactions and feedback with the hydrological cycle; (3) the different temporal and spatial scales of water resources and their use; (4) the full range of objectives (interests) and constraints of water resources utilization; (5) the sustainability of water resources development and use; and (6) the process of implementation and the representation of stakeholders in the decision process.

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### HEAD OF THEMATIC AREA



[Dr. Onyango Ogembo](#) [8]

### MEMBERS OF THEMATIC AREA



[Prof. George Okoye Khrinda](#) [9]



[Dr. John M Nyangaga](#) [10]



[Dr. Shadrack Mulei Kithiia](#) [11]

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## RESEARCH PROJECTS & CONSULTANCIES

- [Joint Transboundary Management of Lakes Chala - Jipe and Uмба River Ecosystem Program, Lake Victoria Basin Commission, Kisumu](#) [12]
- [Mainstreaming of Climate Change Adaptation Policies into the Institutional Framework and Into Core Development Policy, Strategies and Plans](#) [13]
- [Environmental and Social Impact Assessment for the Akiira One Geothermal Power Development at Mount Margaret/Mlima Panya in the Rift Valley, Kenya](#) [14]

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## CONFERENCES

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### DEGREE PROGRAMMES & RELATED COURSE UNITS

#### DEGREE PROGRAMMES

- [MA \(Water Resources Management\)](#) [15]

#### COURSE UNITS

- [CGP 324: Climatology and Hydrology](#) [16]
- [CGP 429: Applied Hydrology and Water Resources Management](#) [17]
- [CGP 432: Coastal and Marine Resources Management](#) [18]

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## POSSIBLE CAREER OPPORTUNITIES

- Hydrologists
- Water and sanitation experts

- Environmental scientists
- Planners

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## NEWS, EVENTS & OUTREACH ACTIVITIES

- [BA III Geography Field Class](#) [19]

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## PHOTO GALLERY

- [2013 BA III Field Class](#) [20]

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