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SASSCAL  
GRADUATE  
STUDIES  
PROGRAMME  
INTEGRATED WATER  
RESOURCES MANAGEMENT



**SASSCAL**

Southern African  
Science Service Centre for  
Climate Change and  
Adaptive Land Management

WWW.SASSCAL.ORG

HOSTED BY



NAMIBIA UNIVERSITY  
OF SCIENCE AND TECHNOLOGY

IN COLLABORATION WITH



**ICWRGC**

International Centre  
for Water Resources and  
Global Change



## Call for a short course application:

### Tools and Approaches for Water Resources Management at Basin Scale

#### Course Aims/Purpose

The course aims to equip participants with a comprehensive understanding of hydrological processes, water resources planning, and data-driven decision-making at the basin scale. This includes practical training in decision support tools, monitoring techniques, GIS, modelling, big data analysis, and data management to support sustainable water management.

#### Course Cost

Costs associated with participating in the short course, such as flights, airport transfers, and accommodation, will be sponsored by the Southern African Science Service Centre for Climate Change and Adaptive Land Management (SASSCAL). SASSCAL's main funder is the Federal Ministry of Education and Research (BMBF).

#### Requirements

All applicants should have basic knowledge of GIS/Mapping and use QGIS or ArcGIS software.

#### How to apply

Interested candidates are encouraged to complete the application form via the link provided below and submit their CV, along with a one-page cover letter detailing their suitability for the course, no later than **Sunday, 25 May 2025**. Should you not receive a response within two weeks after the close of the application, please consider your application unsuccessful. **Click here for the application form.**

**When:** 23-27 June 2025

**Where:** Namibia University of Science and Technology, (NUST) Windhoek, Namibia

**Delivery Mode:** Face to face (there is no opportunity for online participation)

**Only applicants from the following countries are eligible:**

Angola



Botswana



Namibia



South Africa



Zambia



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### Target Group(s)

The course targets water professionals in river basin management, policy, planning, research (hydrology, hydrogeology, IWRM), and water-related consulting, engineering, or infrastructure development.

### Language

Applicants must demonstrate an Intermediate Proficiency in English Language.

### Brief description of course content

Module 1: Understanding the Hydrological Cycle

Module 2: Water resources planning at basin scale and Decision support tools for water resources planning and management

Module 3: Tools for water resources assessments and monitoring

Module 4: Tools and approaches for analysis of watershed data

Module 5: Data Management

### Learning Outcomes/Specific Outcomes

1. Appreciate the hydrological cycle in shaping basin-scale water management.
2. Apply and Identify and key decision support tools for integrated water resources planning and management.
3. Utilise water resources assessment and monitoring tools to evaluate water availability and risks.
4. Analyse and interpret geospatial, earth observation, modelling and big data for improved water management and climate resilience.

### Expectations from Participants

1. The short course is based on the train-the-trainer concept. Successful applicants are expected to train fellow colleagues/employees through a workshop or seminar presentation.
2. Successful applicants will have to be approved by their employer/senior officer with due mandate to participate in the workshop.
3. The employer needs to ensure/guarantee the implementation of (1) above.

**All enquiries should be emailed to:** [sgsp-iwrm@nust.na](mailto:sgsp-iwrm@nust.na)



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