

KSCSTE-CENTRE FOR WATER RESOURCES DEVELOPMENT AND MANAGEMENT

(An institution of Kerala State Council for Science, Technology and Environment, Govt of Kerala)

(An ISO 9001:2015 Certified Institution)



One day National Workshop on

Soil and Water Assessment Tool (SWAT) For Water Resources Management



September 28, 2024



CWRDM, Kozhikode

Chief Guests



Prof. Sudheer K.P

Executive Vice President,
KSCSTE, Thiruvananthapuram



Dr. Raghavan Srinivasan

Director, AgriLife Blackland Research
& Extension Center, Texas A&M
University, USA & Developer, SWAT

Dr E.J. James

Pro-Vice Chancellor
Karunya University, Coimbatore

Dr Balaji Narasimhan

Professor, Civil Engineering
Dept., IIT Madras

Keynote Speakers



Guest of Honour



Dr. Celine George

Senior Principal Scientist & Head
CWRDM Subcentre Ernakulam
(Manimalakunnu)

About the Workshop

The sustainable management of water cycles is crucial in the context of climate change and global warming. It involves managing global, regional, and local water cycles - as well as urban, agricultural, and industrial water cycles - to conserve water resources and their relationships with energy, food, microclimates, biodiversity, ecosystem functioning, and anthropogenic activities. Hydrological modelling is indispensable for achieving this goal, as it is essential for water resources management and mitigation of natural disasters. Hydrological models are the main tools that hydrologists use for different purposes such as water resources management, stormwater management, reservoir system analysis, flood prediction, climate change assessment, etc. Soil and Water Assessment Tool (SWAT) is a small watershed to river basin scale model developed to quantify the quantity and quality of water and simulate the impact of land management practices and climate change. A National Workshop on "Soil and Water Assessment Tool for Water Resources management" is scheduled on September 28, 2024, at KSCSTE-Centre for Water Resources Development and Management (CWRDM), Kozhikode, Kerala. This Workshop aims to give a brief account of the application of SWAT for sustainable water resources management and to address the critical challenges posed by climate change on water resources. The objectives of the workshop are to advance the use of hydrological models and tools in water resources management, to develop innovative solutions for hydrological forecasting and problem-solving in watershed hydrology under changing environments, and to quantify uncertainty of hydrological modeling.

Who can participate?

Research scholars/ faculty from Academic institutes and researchers/ officials from different State and National agencies can participate in the workshop.

Registration:



Interested participants should submit their applications only via the provided Google form link/QR Code

<https://forms.gle/VVXCHUeg1Setnt9E6>

**Book release: R Programming and Its Applications in
Water Resources Management**

About the Host Institute

KSCSTE-Centre for Water Resources Development and Management (CWRDM) is a premier research institution established by the Government of Kerala in 1978 under the Kerala State Council for Science, Technology and Environment (KSCSTE). It is located 13 km east of Kozhikode (Calicut) City. The Centre has a multidisciplinary team of scientists specialized in water resources engineering, hydrology, environmental engineering and sciences, agricultural engineering and sciences, chemical sciences, hydrogeology & geophysics, biological sciences, and social sciences and supported by the technical and administrative staff. Scientific studies on drainage basin/ watersheds, integrated river basin management, surface water and groundwater resource estimation, climate change, urban & forest hydrology, water quality management, water supply and sanitation, crop water management, environmental impact assessment, estuarine and coastal dynamics, irrigation and drainage, etc. are being carried out by various research groups. Advanced instruments and software are available in the field of isotope hydrology, remote sensing, sedimentation studies, systems studies and mathematical modelling of surface and groundwater systems and hydrochemistry. Facilities like Radio isotope hydrology lab, NABL accredited water quality lab, Water heritage museum, Climate change learning lab, etc are attached to the Centre.

Organised by

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