

High End Workshop on Integrated Watershed Management: Development & Emerging Trends

Karyashala, Under the ABHYAAS Scheme - A SERB Initiative

10-22 October 2022

About the workshop

The event will be conducted as 'Karyashala', Accelerate Vigyan Scheme, SERB to support and motivate PG and Ph.D. students. The focus of this high-end workshop is to provide a scientific knowledge on watershed development in the aspect of rain-fall-runoff estimation using SWAT, Forestry/Agro-forestry/Horticulture role in integrated watershed development, Soil erosion models, Sedimentation analysis, Climate and Hydrological modelling, Landslide and flood mapping, Landslide Early Warning system, Water accounting and demand calculation in watersheds and Advanced statistical techniques using R-Programming.

Funded by

Science & Engineering Research Board (SERB),
Department of Science and Technology (DST),
New Delhi

Organized by

Training and Outreach Research Group,
KSCSTE-Centre for Water Resources Development
and Management (CWRDM), Kozhikode-673571,
Kerala



Course Content

Creation of database in GIS for Hydrological studies, Rain-fall-runoff estimation using SWAT, Watershed concept-Integrated approach and management, LULC mapping using GIS, Watershed delineation, Identification of suitable soil and water conservation techniques using GIS, Mechanical, Horticulture and Forestry measures in Integrated watershed development, Sedimentation analysis using instruments and isotope techniques, Soil Erosion Models (USLE, RUSLE, WEPP), Preparation of master plan for watershed development, Monitoring and evaluation of watershed implementation indices, Agriculture and Irrigation water management, Benefit cost analysis of watershed projects, Analysis of meteorological data using R programming, Integrated Farming System, Landslide hazard zonation mapping, Climate modelling for future prediction of meteorological data, Hydrological models for prediction of future stream flow, Application of machine learning models for landslide vulnerability mapping and Landslide early warning system, Water auditing and demand calculation in a watershed level, Community participation in watershed development programme.

Who can attend ?

Karyashala is open to postgraduate and PhD students from Institutes, Colleges and Universities in India. Applicants pursuing PG/PhD programs in any discipline of Agriculture/allied sciences/water resource engineering are eligible. Recently completed PG scholars are also eligible. Preference will be given to the students having interest towards Watershed management and Soil and Water Conservation Measures. Candidates who have completed PhD will not be considered. Total number of seats are limited to 25. There is no registration fee.

How to Apply ?

<https://forms.gle/VH77WLkksVwBXDir5>
or scan the QR code



Important Dates:

Registration opens: 5 September, 2022
Last date for registration: 20 September, 2022
Display of shortlisted candidates: 21 September, 2022
Workshop dates: 10-22 October, 2022

About CWRDM

CWRDM is a premier R & D institution in the water sector established by the Government of Kerala under its Science and Technology Policy in February 1978. Later, the Centre was amalgamated with the Kerala State Council for Science, Technology and Environment (KSCSTE) in its Silver Jubilee Year-2003. CWRDM has substantially contributed to the scientific hydrologic studies and water management in the region. Starting with the establishment of data management system for the region, CWRDM has tackled different problems pertaining to watershed development, wetland management, water management for agriculture, forest and urban hydrology, estuarine management, groundwater development, water quality management, irrigation and drainage issues.

How to reach CWRDM, Kozhikode ?

Kozhikode (also known as Calicut) is well connected with major cities of India by road, rail and airlines. The distance from Calicut railway station to CWRDM is 14 Km which can be covered by road in about 30-45 minutes. Bus services are available from Calicut city to Mundikkalthazham which are 1.6 km from CWRDM. Auto rickshaw services are available from both the Calicut bus stand and railway station to the CWRDM.

Chief Patron:

Dr. Manoj P Samuel
Executive Director CWRDM

Head of Organizing Research Group:

Er. Ambili G K
Senior Scientist, TORG, CWRDM

Event Organizer:

Dr. Thenmozhi M
Scientist, TORG, CWRDM

Organizing Team:

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