

High End Workshop on Watershed Planning and Management: Application of Advanced Tools and Disaster Reduction Strategies

04-10-2023 to 17-10-2023

Karyashala, Under the ABHYAAS Scheme - A SERB Initiative



ACCELERATE
विद्यया



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 rainfall-runoff estimation using SWAT, Forestry/Agro-forestry/Horticulture role in integrated watershed development, Soil erosion models, Sedimentation analysis, Climate and Hydrological modelling, Application of advanced tools in watershed management and Disaster reduction strategies for drought, flood and landslide – mainly for mapping the disasters and technical perspective on early warning system, Water accounting and demand calculation in watersheds & Advanced statistical techniques using R-Programming

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/Land and Water Management Engineering/Water Resource Engineering/Geology/Environmental Science/Allied sciences are eligible. Recently completed PG scholars are also eligible. Preference will be given to the students having interest towards Watershed management, Soil and Water Conservation Measures, Hydrological modelling, Disaster related studies. Candidates who have completed PhD will not be considered. Total number of seats are limited to 25. There is no registration fee.

Speakers

Distinguished national and international experts in the field of Agricultural and Civil Engineering will be delivering the lectures.

Organized by

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

Funded by

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

Important Dates:

Registration opens: 17 August, 2023

Last date for registration: 15 September, 2023

Display of shortlisted candidates: 16 September, 2023

Workshop dates: 04-17 October, 2023

How to Apply?

<https://bit.ly/47EiLAj> or scan QR code



COURSE CONTENT

Creation of database in GIS for Hydrological studies, Watershed delineation, Rainfall-runoff estimation using SWAT, Developing future climate projections for a river basin, Hydrological modelling for prediction of future streamflow, Advanced statistical techniques - precipitation analysis - extreme and drought indices using R, Evapotranspiration and related analysis using R software, Watershed concept-Integrated approach and management, Water Resource Management by managing aquifer recharge, Preparation of master plan for watershed development, Mechanical/Horticulture/Forestry measures in Integrated watershed development, Monitoring and evaluation of watershed implementation indices, Benefit cost analysis of watershed projects, Land Use and Land Cover mapping using GIS and Google Earth, Geophysical techniques for water resource mapping and management, Water Quality Assessment and Modelling in a watershed by using GIS, Estimation of soil parameters using hyperspectral data by using Machine learning models, Application of DSS for Water and Nutrient Management in Agriculture, Water auditing and budgeting, demand calculation in a watershed level with case study, Sedimentation analysis using instruments and isotope techniques, Soil Erosion Models (USLE, RUSLE, WEPP), Application of machine learning models and GIS for landslide vulnerability mapping and flood zonation mapping, Technical perspective on Landslide Early Warning System

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 Mundikkal Thazham which are 1.6 km from CWRDM. Auto rickshaw services are available from both the Calicut bus stand and railway station to the CWRDM.

BOARDING & LODGING

Boarding and lodging to the selected candidates will be borne by the organizing institute. TA may be admissible as per the sponsoring agency norms and rules.

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
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ORGANIZING TEAM:

Dr. Nithiya S., TORG
Dr. Venu Prasad H. D., TORG
Dr. Thangamani S., TORG
Mr. Sasidharan P., TORG
Mr. Basil K., TORG
Mrs. Sindhu I. A., TORG
Mr. Nimesh K.K., TORG

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 management, water quality management, irrigation and drainage issues.

