



PRE - CONFERENCE WORKSHOP INFORMATION

DATE : 04 – 05, January 2027

Venue : NITW, Warangal India

W1

SWAT + Model setup & Calibration

Model Setup in QGIS:

Master GIS data preparation, watershed delineation, and HRU definition using the QGIS SWAT+ interface

SWAT+ Editor & Soft Calibration

Learn how to write input files, execute model runs, and apply soft calibration techniques to ensure baseline realistic hydrology.

Basics of hard calibration using SWAT+ Toolbox:

Get a head start on advanced calibration techniques, parameter optimization, and hard calibration workflows

Introduction to Decision Tables:

Understand how to represent complex management practices and conditional rules within SWAT+.

W2

SWAT + gwflow

Theoretical Foundations

Understand the core hydrogeological concepts, mathematical governing equations, and conceptual framework of the gwflow module.

Data Preparation & Module Setup

Learn how to define aquifer boundaries, grid discretization, hydraulic conductivity, and initial heads within the SWAT+ framework

Hands-On Model Coupling

Practice running SWAT+ coupled with gwflow to simulate realistic surface-groundwater interactions, baseflow discharge, and water table dynamics.

Output Interpretation

Learn how to extract, visualize, and interpret groundwater spatial and temporal outputs

Note: Both workshops will be conducted in parallel

Registration Link: <https://forms.gle/T8Udf32oMiwbXJJV6>

Website: <https://cms.nitw.ac.in/conference/swat2027/>

Email : swat2027@nitw.ac.in



"Hurry up! Each workshop has a limit of 30 participants"

Organizers



REGISTRATION FEES:

Category	Indian Fee (INR)	Foreign Fee (USD)
Students	Rs. 3000	USD 75
Industry/Researchers	Rs. 5000	USD 75