



Pre – Conference Workshop Information

DATE : 04 – 05, January 2027 **Venue : NITW, Warangal India**

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Workshop 1: 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+.

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Workshop 2: 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.



NIT Warangal
NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL



ORGANIZERS



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”

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