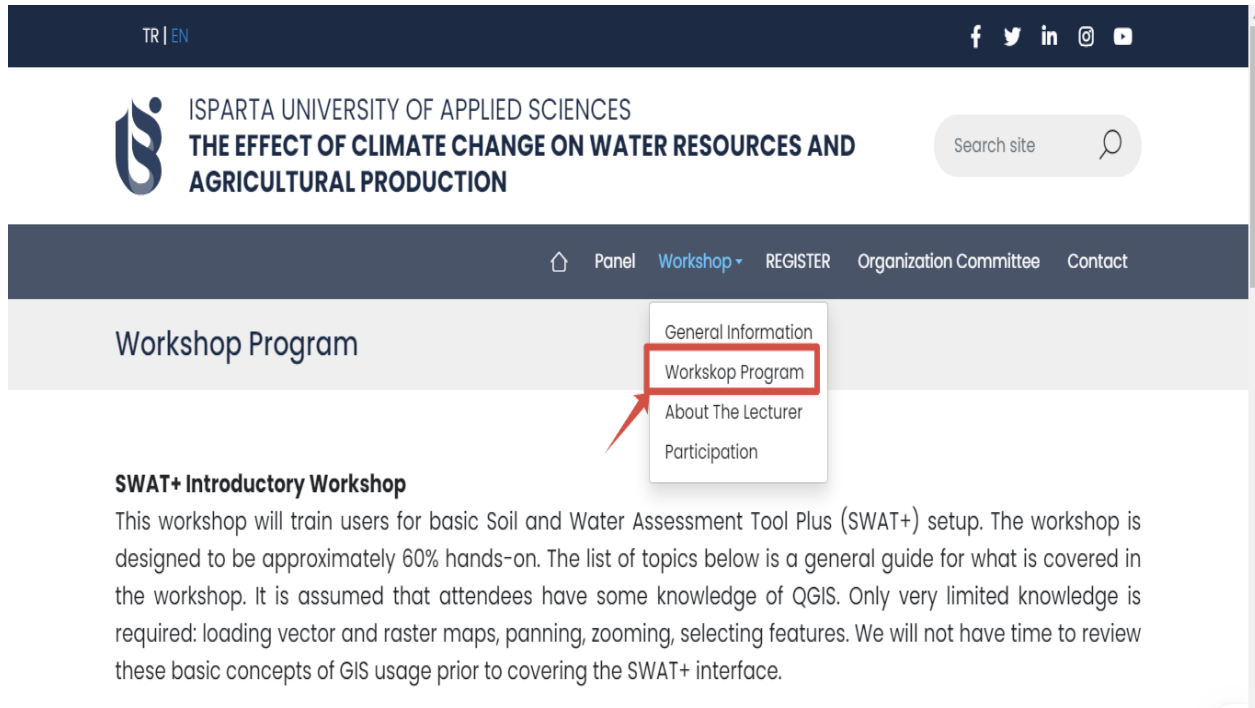


# SWAT+ Workshop User Guide

1. First, go to the workshop website (<https://iklimvetarim.isparta.edu.tr/en>) and click the "Workshop Program" button.



The screenshot shows the website header with the logo of Isparta University of Applied Sciences and the title "THE EFFECT OF CLIMATE CHANGE ON WATER RESOURCES AND AGRICULTURAL PRODUCTION". A search bar is visible. The navigation menu includes "Panel", "Workshop", "REGISTER", "Organization Committee", and "Contact". The "Workshop" menu is expanded, showing options: "General Information", "Workshop Program" (highlighted with a red box), "About The Lecturer", and "Participation". Below the menu, the "Workshop Program" section is titled "SWAT+ Introductory Workshop" and contains a paragraph of text.

2. Second, click the [install the latest version of SWAT+](#)

**The workshop will be held between 19-21/11/2024 within the framework of the program specified below.**

**Day 1** (19/11/2024; 09:00-12:00)

Theory and conceptual SWAT+ model. Hands-on QSWAT+ watershed delineation using example datasets comes with QSWAT+.

**Day 2** (20/11/2024; 09:00-12:00)

Continue hands-on QSWAT+ land use, soils, and slope overlay - HRU preparation and model run.

**Day 3** (21/11/2024; 09:00-12:00)

SWAT+ Editor session using the QSWAT+ project developed and model execution, reading the results, saving projects. Visualization, running scenarios, and Q&A session.

**To follow along with the workshop, please [install the latest version of SWAT+](#) before the start of the workshop.**



The footer contains links to the App Store, Google Play, and AppGallery, a QR code, and social media icons for Facebook, Twitter, LinkedIn, Instagram, and YouTube. The text "Model University" in Applied is visible on the left, and "THE EFFECT OF CLIMATE CHANGE ON WATER RESOURCES AND" is visible on the right.

### 3. Third, click the SWAT+ download button.

**SWAT+** Soil & Water Assessment Tool

News **Software** Docs Data Workshops Conferences Publications Support Jobs

SWAT / Software / SWAT+

**SWAT+**

Introducing SWAT+, a completely revised version of the SWAT model. SWAT+ provides a more flexible spatial representation of interactions and processes within a watershed.

**Download SWAT+**

12-14 NOV 2024 / ONLINE

Online SWAT+ Beginner Workshop

Over the past 20 years, the Soil and Water Assessment Tool (SWAT) has become widely used across the globe. The large numbers of applications across the globe have also revealed limitations and identified model development needs. Numerous additions and modifications of the model and its individual components have made the code increasingly difficult to manage and maintain. In order to face present and future challenges in water resources modeling SWAT code has undergone major modifications over the past few years, resulting in SWAT+, a completely revised version of the model.

Even though the basic algorithms used to calculate the processes in the model have not changed, the structure and organization of both the code (object based) and the input files (relational based) have undergone considerable modification. This is expected to facilitate model maintenance, future code

### 4. Fourth, in the installation part, first install the QGIS program then install the SWAT+ Toolbox.

**SWAT+ Installation & Help** 3.0 v

Q Ask or Search

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**USER**

SWAT+ IO Documentation

SWAT+ Editor Documentation

QSWAT+ Manual

How to Use SQLite

**DEVELOPER DOCS**

SWAT+ Editor Design

Powered by GitBook

## 1. Install QGIS 3.34

If you plan to use QSWAT+ to set up your watershed, please install QGIS 3 before installing SWAT+. It can be downloaded from the [QGIS download page](#) where you should select the **Long term release repository**, and the **64 bit standalone installer**. Use the default folder `C:\Program Files\QGIS 3.34.6` as the installation folder. See the [QSWAT+ manual](#) for further instructions.

- **MacOS and Linux only:** users will need to install `openmpi` separately.
  - MacOS: run `brew install openmpi` from a terminal.
  - Linux/Ubuntu: run `sudo apt-get install openmpi-bin` from a terminal. Package name may vary with distribution.

## 2. SWAT+ 3.0 Installer

**SWAT+ Installation & Help** 3.0 v

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**USER**

SWAT+ IO Documentation

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## 2. SWAT+ 3.0 Installer

This release includes **SWAT+ rev. 61**, **QSWAT+ 2.5**, **SWAT+ Editor 3.0**, and **SWAT+ Toolbox 2.0** (Windows only). To install the SWAT+ model and interface components, please use an installer linked below for your operating system. The installer is for 64-bit machines. Administrator privileges are not required for personal installations (but Mac requires use of sudo).

Operating System	Link	Release Date	Version
Windows 64-bit	<a href="#">Download (300MB)</a>	24 October 2024	3.0.8
*Linux 64-bit	<a href="#">Download v2.3</a>		2.3
*MacOS Intel 64-bit	<a href="#">Download v2.3</a>		2.3
*MacOS Arm M1/M2	<a href="#">Download v2.3</a>		2.3

\*We are currently experiencing a delay in getting the rev. 61 SWAT+ model operational with Linux/MacOS. Please use our old interface installers, v2.3 in the meantime.

\*For Linux and MacOS, the optional `SSURGO/STATSO` soils and `WON` databases should be downloaded from the [SWAT+ SQLite Datasets](#) section below as they are not included in the