

Mathematical Modelling for Infectious Diseases - Malaria Training
University of Nairobi, Nairobi
18 - 29 August 2025

Core Software

In preparation of the upcoming Mathematical Modelling for Infectious Diseases - Malaria course, below is information on the required software which will be used during the course. It is advisable to install them prior to the start of the training (if you do not have them). Further, you are advised to practise and brush up your R coding skills before the course begins.

1. Download R: R is a free and open source software which we will use for data analysis, and modelling. To install it, follow the links below for the different Operating systems. For those who already have R, kindly ensure you are using the latest version of R which is R 4.5.0. The website is accessible at:
 - Windows users: [Download R-4.5.1 for Windows](#)
 - Linux users: [Download R for Linux](#)
 - MacOS users: [R-4.5.1-arm64.pkg](#)
2. Download Rstudio: Rstudio is an Integrated Development Environment that is popular for R users. It allows R users to have better experience doing analysis.
 - Windows users: [RStudio-2025.05.1-513.exe](#)
 - Linux users - Follow this link to choose the distro:
<https://posit.co/download/rstudio-desktop/>
 - MacOS users: [Download RStudio Desktop for macos 13+](#)

Once downloaded, install the two starting with R installation first, and then proceeding to Rstudio installation next.

Introduction to R Book

Please use the following link to access *an Introduction to R book*:

https://cema-uonbi.github.io/cema_courses.github.io/index.html#why_r

It covers why R is useful, its basic features, installing and using R and packages, creating objects and functions, working with data, performing exploratory data analysis, and basic data visualisation.