



# סילבוס מפורט

<b>Course name</b>	
Introduction to R	
<b>Lecturer</b>	
Dr. Ofir Levy	
<b>Semester</b>	
2025/1	
<b>Course prerequisites</b>	
Biostatistics	
<b>Final grade</b>	
Home exam	
<b>Course structure</b>	
Subject	Date
Quick introduction to R. Working with RStudio. Installing packages. Help tools. Importing data into R	09/02/2025
Data manipulation and programming: Loops, conditions, and functions	10/02/2025
Data visualization	11/02/2025
Linear models (simple regression and Generalized Least Square). Model selection and averaging (stepwise and AIC)	12/02/2025
Generalized linear models (count and percentage data) and mixed-effects models	13/02/2025
Each student works on his/her data: Arranging the data, running the analyses, reading and plotting the results	14/02/2025
<b>Mandatory reading</b>	
<b>Recommended reading</b>	
Zuur et al. 2009, Mixed Effects Models and Extensions in Ecology with R.	
<b>Notes</b>	
<ol style="list-style-type: none"><li>1) The course will include 6 days of frontal lectures and exercises in R.</li><li>2) Registration is as usual, but the number of students will be limited to 24 (8 students per instructor). Admission will be based on a short questionnaire, with priority given to PhD students and second year MSc students in advanced standing.</li><li>3) Attendance is mandatory in the lessons and exercises.</li><li>4) The course will be conducted in English.</li></ol>	