



## *The Hebrew University of Jerusalem*

### *Syllabus*

### *VBA for EXCEL - 54255*

*Last update 07-02-2019*

*HU Credits: 3*

*Degree/Cycle: 1st degree (Bachelor)*

*Responsible Department: Social Sciences - Special Program*

*Academic year: 0*

*Semester: 1st and/or 2nd Semester*

*Teaching Languages: Hebrew*

*Campus: Mt. Scopus*

*Course/Module Coordinator: Hilla Moshieff*

*Coordinator Email: [hila.mo@mail.huji.ac.il](mailto:hila.mo@mail.huji.ac.il)*

*Coordinator Office Hours: Sundays 8:30*

*Teaching Staff:*

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Ms. Hila Moshieff

Course/Module description:

The course teaches how to write code in VBA for Excel. VBA is a programming language hosted in various applications, including Excel. It provides tools that enables the programmer, to extend the capabilities of Excel and enables the automation of operations in Excel

Course/Module aims:

Manipulating Excel using VBA programming by controlling the objects that comprise Excel.

Learning outcomes - On successful completion of this module, students should be able to:

Write Excel macros and functions and run them in different ways.  
Have knowledge in:  
basics of programming,  
event-driven programming,  
objects, attributes and methods and the concept of object-oriented programming.

Attendance requirements(%):

None

*Teaching arrangement and method of instruction: Lectures will be conducted in the computer farms, examples will be displayed and students will be able to experiment with writing small programs.*

*An exercise will be given every week. At least 8 of the given exercises must be submitted in order to be eligible for a course grade.*

Course/Module Content:

- Writing and running Functions and Macros.
- Types of variables and how they are defined
- Assigning values to variables
- Flow of control:
  - Conditions - IF and SELECT
  - Loops - For-Next, Do-Loop, For-Each
- Objects, properties and methods
- Recording Macros

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- *Debugging*
  - *Procedural programming and event-driven programming*
  - *Creating forms with controls*
  - *Working with Files*
  - *Error handling*

*Required Reading:*

*None*

*Additional Reading Material:*

*Course book - VBA For Excel written by Hilla Moshieff-Cahana Published by The Academon*

*Course/Module evaluation:*

*End of year written/oral examination 100 %*

*Presentation 0 %*

*Participation in Tutorials 0 %*

*Project work 0 %*

*Assignments 0 %*

*Reports 0 %*

*Research project 0 %*

*Quizzes 0 %*

*Other 0 %*

*Additional information:*

*The final grade will be determined by the student's test score at the end of the course. To take the test, the students must submit, on time, at least 8 of the exercises that will be given during the course*