The Hebrew University of Jerusalem

Syllabus

VBA programming - 54255

Last update 18-04-2020

HU Credits: 3

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Social Sciences - Special Program

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Hilla Moshieff

 Coordinator Email: hila.mo@mail.huji.ac.il

Coordinator Office Hours: Sundays 8:30

Teaching Staff:

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*

- *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 %
  In case a class exam is not possible, a

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.
In case a class exam is not possible, the final grade will be calculated as follows: 15% mandatory exercise 85% an online exam.