



# *The Hebrew University of Jerusalem*

## *Syllabus*

### *INFINITESIMAL CALCULUS (1) - 80131*

*Last update 14-04-2020*

*HU Credits: 7*

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

*Responsible Department: Mathematics*

*Academic year: 0*

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

*Teaching Languages: Hebrew*

*Campus: E. Safra*

*Course/Module Coordinator: Yves Godin*

*Coordinator Email: [jbreuer@math.huji.ac.il](mailto:jbreuer@math.huji.ac.il)*

*Coordinator Office Hours: By appointment*

*Teaching Staff:*

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Dr. Noa Nitzan  
Dr. Yves Godin  
Mr. Alpern Itai  
Ms. Hachohen Yael  
Mr. Deutsch Arye  
Mr. Eyal selig  
Mr. David Zisselman  
Prof Tomer Schlank  
Mr. Ur Ben-Ari  
Prof Raz Kupferman  
Mr. Daniel Ofner

Course/Module description:

*Infinitesimal Calculus in one variable.*

Course/Module aims:

*Introduction to Infinitesimal Calculus of one variable.*

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

*Feel acquainted with the formal-deductive structure, being able to write proofs and solve problems in mathematical analysis.*

Attendance requirements(%):

0

*Teaching arrangement and method of instruction: Lecture and exercise.*

Course/Module Content:

*Real numbers. Sequences of real numbers. Limits and continuity. Derivatives.*

Required Reading:

none

Additional Reading Material:

N/A

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Course/Module evaluation:

End of year written/oral examination 85 %

Presentation 0 %

Participation in Tutorials 0 %

Project work 0 %

Assignments 15 %

Reports 0 %

Research project 0 %

Quizzes 0 %

Other 0 %

Additional information:

none