



# *The Hebrew University of Jerusalem*

## *Syllabus*

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

*Last update 17-07-2022*

*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: [yves.godin@mail.huji.ac.il](mailto:yves.godin@mail.huji.ac.il) [raz@math.huji.ac.il](mailto:raz@math.huji.ac.il)*

*Coordinator Office Hours: By appointment*

*Teaching Staff:*

---

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, review recitation workshop*

Course/Module Content:

*Real numbers. Limits, sequences, series, continuity, derivatives.*

Required Reading:

none

Additional Reading Material:

N/A

Course/Module evaluation:

*End of year written/oral examination 85 %*

*Presentation 0 %*

*Participation in Tutorials 0 %*

*Project work 0 %*

*Assignments 5 %*

*Reports 0 %*

*Research project 0 %*

*Quizzes 8 %*

---

Other 2 %  
Online review

Additional information:

*The workshops in course 80031 accompany the course (active recitation).  
Participation in the workshop is not mandatory but contributes up to 10% "Magen"  
to the exam grade, proportional to the number of sessions the student attends.*