האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

Syllabus

LIE ALGEBRAS - 80869

 Last update 10-11-2019

<u>HU Credits:</u>   2

<u>Degree/Cycle:</u> 2nd degree (Master)

<u>Responsible Department:</u> Mathematics

<u>Academic year:</u> 0

<u>Semester:</u> 2nd Semester

<u>Teaching Languages:</u> English and Hebrew

<u>Campus:</u> E. Safra

<u>Course/Module Coordinator:</u> Prof Aner Shalev

 <u>Coordinator Email:</u> shalev@math.huji.ac.il

<u>Coordinator Office Hours:</u>

<u>Teaching Staff:</u>
  Prof Aner Shalev

Course/Module description:
  A relatively elementary introduction to Lie Algebras

Course/Module aims:

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

Attendance requirements(%):

Teaching arrangement and method of instruction:

Course/Module Content:
  Lie rings and Lie algebras, examples, derivations, ideals, homomorphisms, nilpotent Lie algebras and Engel's theorem, solvable Lie algebras and theorems of Lie and Cartan, semisimple Lie algebras

Required Reading:
 NA

 Additional Reading Material:
  Humphreys: Introduction to Lie Algebras and Representation Theory

 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: