

# Syllabus

# LIE ALGEBRAS - 80869

Last update 10-11-2019

HU Credits: 2

Responsible Department: Mathematics

Academic year: 0

Semester: 2nd Semester

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

Campus: E. Safra

Course/Module Coordinator: Prof Aner Shalev

Coordinator Email: shalev@math.huji.ac.il

**Coordinator Office Hours:** 

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

Course/Module description:

A relatively elementary introduction to Lie Algebras

#### Course/Module aims:

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

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: