Syllabus

Topics in algebraic structures - 80717

Last update 29-07-2020

HU Credits: 2

Degree/Cycle: 2nd degree (Master)

Responsible Department: Mathematics

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: Dr. Ori Parzanchevski

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

Coordinator Office Hours:

Teaching Staff:
Dr. Ori Parzan

<u>Course/Module description:</u>
  Continuing the study of modern algebraic structures, following the courses "Algebraic Structures I + II"

<u>Course/Module aims:</u>

<u>Learning outcomes - On successful completion of this module, students should be able to:</u>
  Appreciate the beauty of twentieth-century algebra

<u>Attendance requirements(%):</u>

<u>Teaching arrangement and method of instruction:</u>

<u>Course/Module Content:</u>
  Tentative plan:
Modules over PID
Symmetric and Exterior algebras
Division rings - Quaternion rings, Cyclic algebras, Wedderburn little theorem
Simple rings - Artin-Wedderburn theory, Skolem-Noether theorem
Introduction to Lie groups

<u>Required Reading:</u>
 None

 <u>Additional Reading Material:</u>
  Dummit & Foote - Abstract Algebra
Jacobson - Basic Algebra

 <u>Course/Module evaluation:</u>
  End of year written/oral examination 90 %
  Presentation 0 %
  Participation in Tutorials 0 %
  Project work 0 %

Assignments 10 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information: