האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

Syllabus

Topics in algebraic structures - 80717

Last update 29-07-2020

HU Credits: 2

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:
Prof Ori Parzan

Course/Module description:
Continuing the study of modern algebraic structures, following the courses

"Algebraic Structures I + II"

Course/Module aims:

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

Attendance requirements(%):

Teaching arrangement and method of instruction:

Course/Module Content:
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

Required Reading:
None

Additional Reading Material:
Dummit & Foote - Abstract Algebra
Jacobson - Basic Algebra

Course/Module evaluation:
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 %

<u>*Additional information:*</u>