

# The Hebrew University of Jerusalem

Syllabus

# ALGEBRAIC GEOMETRY - 80637

*Last update 30-07-2020* 

HU Credits: 4

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Mathematics

<u>Academic year:</u> 0

Semester: 2nd Semester

Teaching Languages: English

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

Course/Module Coordinator: Dr. Ari Shnidman

Coordinator Email: ariel.shnidman@mail.huji.ac.il

Coordinator Office Hours:

Teaching Staff:

## Dr. Schneidman Ari

#### <u>Course/Module description:</u> Algebraic Geometry

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

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

<u>Attendance requirements(%):</u> None

Teaching arrangement and method of instruction: Lecture

#### Course/Module Content:

Affine and projective schemes, local and global properties, sheaves and cohomology, algebraic curves.

#### <u>Required Reading:</u> None

<u>Additional Reading Material:</u> Hartshorne Algebraic Geometry

<u>Course/Module evaluation:</u> End of year written/oral examination 0 % Presentation 0 % Participation in Tutorials 20 % Project work 0 % Assignments 80 % Reports 0 % Research project 0 % Quizzes 0 % Other 0 %

## Additional information:

Prerequisites: commutative algebra on the level of Atiyah and Macdonald's book.

This course is geared towards master and doctorate students who would like to be proficient in scheme theory.