



# *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*

*Academic year: 0*

*Semester: 2nd Semester*

*Teaching Languages: English*

*Campus: E. Safra*

*Course/Module Coordinator: Dr. Ari Shnidman*

*Coordinator Email: [ariel.shnidman@mail.huji.ac.il](mailto:ariel.shnidman@mail.huji.ac.il)*

*Coordinator Office Hours:*

*Teaching Staff:*

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Course/Module description:

*Algebraic Geometry*

Course/Module aims:

*Algebraic Geometry*

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

*Algebraic Geometry*

Attendance requirements(%):

*None*

*Teaching arrangement and method of instruction: Lecture*

Course/Module Content:

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

Required Reading:

*None*

Additional Reading Material:

*Hartshorne Algebraic Geometry*

Course/Module evaluation:

*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 %*

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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.*