The Hebrew University of Jerusalem

Syllabus

Astronomy for Poets (Introduction to Modern Astr - 77118

Last update 19-11-2018

HU Credits: 2

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Physics

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Tsvi Piran

Coordinator Email: tsvi1@phys.huji.ac.il

Coordinator Office Hours: Tuesday 11-12

Teaching Staff:
Prof Tsvi Piran

Course/Module description:
A modern view of the Universe in which we live as it arises from Astronomical observations: The Big Bang and the creation of the Universe – Genesis according to modern science. The search for life in the Universe – are we alone? Are there black hole in the Universe and what happens when we fall into one. Supernove and the strongest explosions in the Universe. The lecture will include also historical discussion describing how modern Astronomy developed and how did this influence the development of science and our modern view of the world in which we live.

Course/Module aims:
See learning outcomes

Learning outcomes - On successful completion of this module, students should be able to:
Recount basic facts about the solar system, stars, galaxies and the universe as a whole.
Understand the basic scientific methodology used in basic Astronomy and other exact sciences.
Execute simple arithmetic and quantitative calculations in relation to astronomical problems.

Attendance requirements(%):

Teaching arrangement and method of instruction: Lectures and weekly homework assigments.

Course/Module Content:
See course description

Required Reading:
None

Additional Reading Material:

None

Grading Scheme:

Additional information:

** Sumbission of 80% of the exercises is essential in order to participate in the final exam.*

*** A bonus homework assignement can get up to 10 extra points to the final grade.*