



## *The Hebrew University of Jerusalem*

### *Syllabus*

## *From Newton to Freud: an Intellectual History of Western Science: part B - 39421*

*Last update 06-09-2016*

*HU Credits: 2*

*Degree/Cycle: 1st degree (Bachelor)*

*Responsible Department: history*

*Academic year: 0*

*Semester: 2nd Semester*

*Teaching Languages: Hebrew*

*Campus: Mt. Scopus*

*Course/Module Coordinator: Raz Chen-Morris*

*Coordinator Email: [raz.chen-morris@mail.huji.ac.il](mailto:raz.chen-morris@mail.huji.ac.il)*

*Coordinator Office Hours: Wednesday 12:30-14:00*

---

Teaching Staff:

Prof Raz Chen-Morris

Course/Module description:

The course will examine the evolvement of scientific modes of thought on the backdrop of some of the major intellectual trends in Western civilization from the Enlightenment to the beginning of the 20th century. Among the issues and subjects to be discussed: Chemistry of the French revolution; Romantic Electricity; Evolution and the Imperialist worldview; Thermodynamics and cultural pessimism in late 19th century.

Course/Module aims:

Different aspects of the rise of scientific culture in western civilization from the 18th to the 20th century.

The historical context of the hegemony of science in the modern world.

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

To describe the important events in the history of modern science.

To identify the main lines of development of scientific thought in the period from the 18th to 20th century.

To identify the complex relationship between the social, cultural and political aspects and the main events in the history of modern science.

To historically assess the main scientific developments of the modern age.

To critically assess the different personalities that operate in the modern world of science.

Attendance requirements(%):

100%

Teaching arrangement and method of instruction: lecture

Course/Module Content:

Newton and the Enlightenment

Newton and the Industrial Revolution

Probability and Enlightenment

The emergence of the science of Economy

Revolution and Chemistry - Lavoisier

---

*Frankenstein and the Vitalistic Debate*  
*Electricity from Franklin to Faraday*  
*Statistics - State and Society*  
*Darwin and the Victorian World*  
*The Birth of the Social Sciences*  
*Frued and the reconstruction of the self.*

Required Reading:

TBA

Additional Reading Material:

TBA

Course/Module evaluation:

*End of year written/oral examination 85 %*

*Presentation 0 %*

*Participation in Tutorials 15 %*

*Project work 0 %*

*Assignments 0 %*

*Reports 0 %*

*Research project 0 %*

*Quizzes 0 %*

*Other 0 %*

Additional information:

*History Department*

*Hebrew University of Jerusalem, Mt. Scopus*

*Mt. Scopus*