



FEF3320 Solar System Physics

8.0 credits

Solsystemsphysik

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for FEF3320 valid from Spring 2012

Grading scale

Education cycle

Third cycle

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After completed course the students should have knowledge of the current structure and composition of the solar system, its formation, dynamics, and of methods for studying the system.

Course contents

General features of the solar system. Experimental methods for studying solar system properties. The formation of the solar system. Interaction of solar system bodies with the interplanetary medium. The inner planets and their satellites. Asteroids. The giant planets. Bodies without atmosphere in the outer solar system. Satellites with atmospheres. Comets. Trans-Neptunian objects. Interplanetary dust, micrometeorites, and meteorites

Disposition

Seminars, assignments.

Course literature

The Solar System, Encrenaz, T., Bibring, J.-P., Blanc, M., Barucci, M.-A., Roques, F., Zarka, P. Springer Verlag, 3rd Ed 2004, ISBN 978-3-540-00241-3

Examination

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Other requirements for final grade

Final oral exam and seminar presentation.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.