

SYLLABUS

The Universe - a grand tour

7.5 credits F0043T

Universum - en rundresa

Course syllabus admitted: Autumn 2011 Sp 2 - Spring 2013 Sp 4

DECISION DATE
2011-10-07

The Universe - a grand tour 7.5 credits F0043T

Universum - en rundresa

First cycle, F0043T

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	G U 3 4 5	Fysik	Physics

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language

Selection

The selection is based on final school grades or Swedish Scholastic Aptitude Test.

Examiner

Johan Hansson

Course Aim

After completing the course you should: Have gained knowledge about our modern scientific view of the universe; its contents, development and history.

Contents

Fundamental ideas & facts about the Universe and the historical view of space and the cosmos. The main emphasis lies on the latest scientific findings, for example regarding big bang, dark matter, the accelerating universe, black holes, galaxy formation, star evolution and deaths, supernovas, planetary systems inside and outside our solar system, cosmic rays. Future scientific challenges and observational methods are briefly covered.

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

The lectures are overviews of selected parts of the course literature, some presented by the students themselves.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. The examination consist of project assignments.

Literature. Valid from Autumn 2008 Sp 1

Freedman, R.A, Kauffman, W.J:Universe, senaste upplagan

Course offered by

Department of Engineering Sciences and Mathematics

Items/credits

Number	Type	Credits	Grade
0001	Take-home examination/Written exam	7.5	G U 3 4 5

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

Last revised

by Department of Engineering Sciences and Mathematics 2011-10-07

Syllabus established

The syllabus was established by the Department of Applied Physics and Mechanical Engineering 2007-12-17, and remains valid from autumn 2008.