Modules:

physics700 **Elective Advanced Lectures**
physics730 **Theoretical Physics**

Course: Relativity and Cosmology II (T)

Course No.:

Category	Type	Language	Teaching hours	CP	Semester
Elective	Lecture with exercises	English	4+2	8	ST

Requirements:

Preparation:
Training in theoretical physics at the B.Sc. level

Form of Testing and Examination:
Written or oral examination

Length of Course:
1 semester

Aims of the Course:
Application of Einstein's theory of general relativity to black holes and cosmology

Contents of the Course:
Black holes
Introduction to cosmology
The early Universe

Recommended Literature:
V. Mukhanov, Physical Foundations of Cosmology
T. Padmanabhan, Gravitation: Foundation and Frontiers
J. B. Hartle, Gravity: An introduction to Einstein's general relativity