## Modules:

## physics700 Elective Advanced Lectures physics730 Theoretical Physics

Course:



# Relativity and Cosmology II (T)

Course No.:

Category	Туре	Language	Teaching hours	СР	Semester
Elective	Lecture with exercises	English	4+2		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