

## Relativity and Cosmology II (T) - GR II

<i>Course</i>	Relativity and Cosmology II (T)
<i>Course No.</i>	GR II

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

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