

## Relativitat General i Cosmologia

2014/2015

Code: 103946  
ECTS Credits: 6

Degree	Type	Year	Semester
2500097 Física	OT	4	2

### Contact

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### Use of languages

Principal working language: anglès (eng)  
Some groups entirely in English: Yes  
Some groups entirely in Catalan: No  
Some groups entirely in Spanish: No

### Objectives and Contextualisation

To learn the physical basis of General Relativity (GR) as well as the most important gravitational phenomena that are described with it. This goal requires mastering tensorial calculus. The classical tests of GR and the familiarization with the most important spacetimes are also included as part of the course.

### Content

Special Relativity  
Differential Geometry  
The Equivalence Principle  
Spherical symmetry  
Weak fields  
Cosmology