Study programme	Type (cycle)			Second cycle	
	Module			Physics	
Course title	GRAVITATION AND COSMOLOGY				
Code	Semestar	Status		ECTS	L+E
PTH9671	I	ELECTIVE		6	2+1
Lecturer	Doc. dr. Admir Greljo				
Aims and intended learning outcomes	The goal of the course is to introduce the main topic and methods in gravitation and cosmology. The expected outcome is to enable students to explore advanced topics as well as follow modern trends in this area of physics.				
Course contents					
The standard model of Cosmology. Thermal history of the Universe. Dark matter. Cosmic microwave background. Structure formation.					
Working hours (h)		Exams and marks			
P + V 45			Туре		Points
Exams 60			Midterm e	exam	35
Written	45		Final ex	am	35
Other			Homewo	orks	30
Total	150)			
			Total		100
Literature					
Main: 1. A No-Nonsense Introduction to General Relativity / Carroll 2. Cosmology / Baumann 3. Lectures on Dark Matter Physics / Lisanti Extended : 1. Physical foundations of cosmology / Mukhanov 2. Spacetime and Geometry / Carroll 3. Gravitation and Cosmology / Weinberg Other					