COURSE TITLE	COSMOLOGY										
Code	KBF: 105 ISVU: 82135		Year of st	udy		I					
Course teacher/s	Full professor Ivan Ph.D.	Tadić,	Credit (EC	CTS)		3					
Assistants			Type of in (number of semester)	of hou		L 30			F		
Course status	Core course		Percentag				·				
COURSE DESCRIPTION											
Course goals	Student should gain insight into the history of the universe and its understanding, a contemporary scientific view on its origin and interpretation.										
Course enrollment requirements and core competencies											
Expected learning outcomes at the course level (4-10 learning outcomes)	 Having successfully completed the course a student should be able to: 1. Interpret the evolution of theories about the origin of the universe throughout the history. 2. Present main novelties causing the scientific shift. 3. Discern difficulties and new scientific theories of Galileo. 4. Interpret the Big Bang theory of the origin of the universe. 5. Briefly describe the main forces in the universe. 6. Describe the phenomenon of the expanding universe within its spatial form and density. 										
Detailed course content (weekly class schedule)	Relationship between human and world (2); Presocratic Cosmologies (1); Plato's cosmology (3); Eudoxus and Calippus cosmology (2); Aristotle's view of the world (2); Ideas on heliocentric system of the world, the epicycle, the eccentric and the equant (1); Ptolemy (1); the scientific shift, in general (2); Nicolaus Copernicus (3); Tycho Brahe (1); Johannes Kepler (1); Galileo Galilei and contemporary views of the Church on this matter (3); Isaac Newton (1); contemporary cosmology (2); elementary particles and forces of the universe (1); spatial image of the world (1); the Big Bang Theory (3).										
Format of course instruction::	□ Individual ta □ seminars and workshops □ exercises □ on line entirely										
Student obligations	Regular class atter	ndance a	and active p	articip	pation						
Screening student work (specify portion in ECTS credits per each activity so that total number of ECTS credits corresponds to the ECTS credit value of the course)	Class attendance	1,0	Research			Practical training					
	Experimental work		Written representation			(Other)					
	Essay		Seminar essay			(Other)					
	Mid-term exams	1,0	Oral exam		0,5	(Other)					
	Written exam	0,5	Project			(Other)			_		
Grading and evaluation of student work in class and at the final exam	Mid-term exam 50' Final exam 50 %										
Obligatory literature		Tit	le			Numb	er of A	vailabi	lity via		

(available in the library or via other		copies in the library	other media					
media)	S. W. Hawking, <i>Kratka povijest vremena,</i> Izvori, Zagreb, 1996.	1						
	S. Weinberg, Prve tri minute, Izvori, Zagreb, 1998.							
	V. Bajsić, <i>Granična pitanja religije i znanosti,</i> KS, Zagreb, 1998.	5						
	D. Lambert, <i>Znanosti i teologija. Oblici dijaloga,</i> KS, Zagreb, 2003.	1						
Supplementary literature	 F. Selvaggi, <i>Filosofia del mondo. Cosmologia filosofica</i>, PUG, Roma, 1985., str. 1-591. B. Van Hages, <i>Filosofia della natura</i>, PUU, Roma, 1983., str. 1-224. P. Maffei, <i>L'universo nel tempo</i>, Mondadori, Milano, 1982., str. 1-391. TH. S. Kuhn, <i>Struktura znanstvenih revolucija</i>, Jesenski i Turk, Zagreb, 2002²., str. 1-243. S. L. Jaki, <i>Dio e i cosmologi</i>, LEV, Città del Vaticano 1991., str. ; 1-238. T. Petković, <i>Uvod u modernu kozmologiju i filozofiju</i>, Gradska knjižnica "Juraj Šižgorić", Šibenik – Element, Zagreb, 2001., str. 1-59, 179-202. Simone Morandi, <i>Teologija i fizika</i>, KS, Zagreb, 2012. 							
Quality assurance methods aimed at ensuring the acquisition of defined learning outcomes	Lectures, consultations, student attendance register and participation in discussions, mid-term exam and final exam.							
Other (according to the opinion of education provider)								