

Study Programme: Master Academic Studies in Physics			
Course Unit Title: Radio Astronomy			
Course Unit Code: M18RA			
Name of Lecturer(s): Full Professor Dejan Urosevic			
Type and Level of Studies: Master Academic Degree			
Course Status (compulsory/elective): Elective			
Semester (winter/summer): Winter			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face			
Number of ECTS Allocated: 7			
Prerequisites: None			
Course Aims: Attaining of specific knowledge connected to theoretical studying of the radio astronomy.			
Learning Outcomes: At the end of the course, student has skills to work on some advanced topics connected to radio astronomical courses and physics of interstellar medium at PhD studies.			
Syllabus: <i>Theory</i> Single dish radio astronomy. Radio interferometry. Radiation mechanisms which describe production of radio waves. Plasma effects detected by continuum radio observations. Line emission at radio frequencies. <i>Practice</i> Solving problems which help to theoretical derivations presented at lectures. Calculations directly from data obtained from radio observations.			
Required Reading: 1. T.L. Wilson, S. Huttemeister, Tools of Radio-Astronomy (Problems and Solutions), Springer Verlag, Berlin, Heidelberg, 2000.			
Weekly Contact Hours:	Lectures: 3	Practical work: 2	
Teaching Methods: Lectures, practical work and seminars.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation	20	written exam	30
Practical work		oral exam	40
Preliminary exam(s)	10	
Seminar(s)			
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam,			

project presentation, seminars, etc.