Level: master

Course title: Radio Astronomy

Status: obligatory

ECTS: 7

Requirements:

Learning objectives
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
Theoretical teaching

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.

Practical teaching

Solving problems which help to theoretical derivations presented at lectures. Calculations directly from data obtained from radio observations.

Weekly teaching load				Other:
Lectures:3	Exercises:1	Other forms of teaching:1	Student research:	