

Course code	20DASf0301		
Course title	Observation Experiment I B		
Term	前期 1st Half		
Credit(s)	2		
The main day			
The main period			
School/Program	School of Physical Sciences		
Department/Program	Department of Astronomical Science		
Category	Common		
Lecturers	Kameya Osamu, and some lecturers		
Instructor			
<table border="1"> <tr> <td>Full name</td> </tr> <tr> <td>KAMEYA OSAMU</td> </tr> </table>		Full name	KAMEYA OSAMU
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KAMEYA OSAMU			
Outline			
Learn the fundamentals related to radio astronomy observations by lectures and practice radio astronomy observation method and data analysis using the VERA Mizusawa radio telescope system etc			
Goal			
Able to explain the outline of radio astronomical observations and experience using observation equipments related to radio astronomy			
Grading system			
01:Four-grade evaluation (A,B,C,D)			
Grading policy			
Evaluate based on the report after completion (100%)			
Lecture Plan			
<ul style="list-style-type: none"> • Schedule to be held from August 16th to 19th Lecture and Practice <ul style="list-style-type: none"> • About radio astronomy (lecture) • Radio telescopes and VLBI principle (lecture) • Lunar and planetary exploration method by radio measurements (lecture) • Measurements of receiver temperature (lecture, practical training) • Performance evaluation of radio telescopes (lecture, practical training) • Protection of radio astronomy from radio interference (lecture, practical training) • Observations of molecular emission lines and spectral analysis (lecture, practical 			

training) • Basics of measuring instruments for radio astronomy observations (lecture, practical training)
Location
Mizusawa VLBI Observatory (Keyaki Kaikan Meeting Room, VERA Radio Telescope and VERA Observation Building)
Language
English and Japanese
Textbooks and references
Reference book: John D. Kraus, RADIO ASTRONOMY, Cygnus-Quasar Books
Related URL
http://www.miz.nao.ac.jp/
Explanatory note on above URL
HP of the National Astronomical Observatory Mizusawa campus
Others
Stay Keyaki Kaikan (Guest House of the Mizusawa VLBI Observatory) for 3 nights