

ME1202 - Meteorological Observations

COURSE LESSON PLAN			
STUDY PROGRAM: METEOROLOGY			
FACULTY/SCHOOL: FACULTY OF EARTH SCIENCES AND TECHNOLOGY			
INSTITUT TEKNOLOGI BANDUNG			
Course Code: ME1202	Credits: 3	Semester: 2	Course Type: Compulsory course
Course Name	Observasi Meteorologi		
	Meteorological Observations		
Related Course	-	-	-
Study Materials	Introduction		Expose
	Meteorological parameters and their units, meteorological observation systems, and meteorological observation instruments		Expose
	Measurement principles, instrument/sensor characteristics, instrument errors, uncertainty expression, and instrument classification		Expose
	Introduction to analog and digital sensors, logging methods, and instrument calibration		Explore
	Atmospheric scales, representativeness of observations, and source area of observations		Expose
	Guidelines for instrument siting and meteorological station layout		Expose
	Sampling techniques, observation quality control, and post-observation processing		Explore
	Meteorological data transmission systems and global observation data exchange		Expose
Learning Outcomes			
Code		LO	
PLO-2.3		Able to explain the basic principles of weather observation, including types, functions, and measurement standards for weather and climate parameters.	
PLO-3.1		Able to use both conventional and non-conventional instruments to obtain data and information on atmospheric environmental conditions.	
Code	CO	Elements of Course Learning Outcomes (CO)	
PLO-2.3	1	Students are able to explain sampling techniques, testing, and instrument calibration techniques. (C2)	
	2	Students are able to explain the fundamentals of meteorological observation, instrumentation, and measurement. (C2)	
PLO-3.1	3	Students are able to operate instruments for measuring meteorological parameters. (C3)	
Learning Methods		Lectures Group discussions Cooperative learning Problem-based learning	
Learning Modalities		Synchronous offline learning Blended/asynchronous online learning	
Assessment Method		Assessment components: Midterm Exam 30%, Final Exam 30%, Assignments 10%, and Observation Report 30%. 80–100% = A (maximum competency); 75–80% = AB (very good competency); 65–75% = B (good competency); 60–65% = BC (fairly good competency); 55–60% = C (minimum competency); 45–54% = D (below minimum competency); <45% = E (far below minimum competency).	