

ME2206 - Atmospheric Teledetection

COURSE LESSON PLAN			
STUDY PROGRAM: METEOROLOGY			
FACULTY/SCHOOL: FACULTY OF EARTH SCIENCES AND TECHNOLOGY			
INSTITUT TEKNOLOGI BANDUNG			
Course Code: ME2206	Credits: 2	Semester: 4	Course Type: Compulsory course
Course Name	Teledeteksi Atmosfer		
	Atmospheric Teledetection		
Related Course	-	-	-
Study Materials	Radar indicators.		Expose
	Electric and magnetic fields.		Expose
	Refraction in the troposphere.		Expose
	Radar equation.		Expose
	Backscattering by spherical droplets and ice crystals.		Expose
	Complex refractive index.		Expose
	Radar reflectivity.		Expose
	Relationship between reflectivity and precipitation intensity.		Expose
	Applications of radar in cloud physics and weather modification.		Explore
Learning Outcomes			
Code		LO	
PLO-2.3		Able to explain the fundamental principles of weather observation, including types, functions, and measurement standards of weather and climate parameters. (C2)	
PLO-3.1		Able to use conventional and non-conventional instruments to obtain data and information on the state of the atmospheric environment. (C3)	
PLO-3.2		Able to process large-scale digital weather and climate data to understand weather and climate phenomena. (C3)	
Code	CO	Elements of Course Learning Outcomes (CO)	
PLO-2.3	1	Students are able to explain the fundamental principles of radar for weather observation. (C2)	
PLO-3.1	2	Students are able to apply radar observations to obtain weather data and information. (C3)	
PLO-3.2	3	Students are able to process weather/climate data obtained from radar observations. (C3)	
Learning Methods		Lecture Group Discussion Cooperative Learning Problem-based Learning	
Learning Modalities		Synchronous learning Blended/Online Asynchronous	
Assessment Method		Assessment components: Midterm Examination (35%), Final Examination (40%), Assignments (20%), and Quizzes (5%). Grading Scale: 80–100% A (maximum competency) 75–80% AB (very good competency) 65–75% B (good competency) 60–65% BC (satisfactory competency) 55–60% C (minimum competency) 45–54% D (below minimum competency) <45% E (far below minimum competency)	