

ME2203 - Physical Meteorology

COURSE LESSON PLAN			
STUDY PROGRAM: METEOROLOGY			
FACULTY/SCHOOL: FACULTY OF EARTH SCIENCES AND TECHNOLOGY			
INSTITUT TEKNOLOGI BANDUNG			
Course Code: ME2203	Credits: 3	Semester: 4	Course Type: Compulsory course
Course Name	Meteorologi Fisis		
	Physical Meteorology		
Related Course	-	-	-
Study Materials	Atmospheric structure, scale height, and temperature distribution.		Expose
	Atmospheric chemical compounds, dry air thermodynamics, water vapor and moist air, and atmospheric aerosols.		Expose
	Shortwave and longwave radiation in the atmosphere, radiation laws, solar radiation, emission and absorption of longwave terrestrial radiation, and the solar constant.		Expose
	Cloud classification, cloud condensation nuclei (CCN), droplet growth by condensation and collision-coalescence, warm and cold clouds, and ice formation.		Expose
	Thunderstorm electrification, hailstone growth, thunder and lightning.		Expose
Learning Outcomes			
Code		LO	
PLO-2.1		Able to describe the atmosphere and weather and climate phenomena. (C2)	
PLO-2.2		Able to demonstrate understanding of basic meteorological knowledge to explain weather or climate phenomena. (C3)	
Code	CO	Elements of Course Learning Outcomes (CO)	
PLO-2.1	1	Students are able to apply physical laws to atmospheric physical processes. (C3)	
PLO-2.2	2	Students are able to apply physical laws to weather phenomena. (C3)	
	3	Students are able to apply physical laws to solar radiation. (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)	