ME4102 - Climate Change

COURSE LESSON PLAN **STUDY PROGRAM: METEOROLOGY** **FACULTY/SCHOOL: FACULTY OF EARTH SCIENCES AND TECHNOLOGY** **INSTITUT TEKNOLOGI BANDUNG**				
Course Code: ME4102		**Credits: 3**	**Semester: 7**	**Course Type: Compulsory course**
Course Name		Perubahan Iklim		
		Climate Change		
Related Course		-	-	-
Study Materials		Climate system and climate change, climate feedback and sensitivity.		*Expose*
		Climate change assessment and measurement.		*Expose*
		Introduction to climate models.		*Expose*
		Types of climate models.		*Expose*
		Climate predictability and uncertainty in the climate system.		*Expose*
		Atmosphere–Ocean Global Climate Model (AOGCM).		*Expose*
		Regional Climate Model (RCM).		*Expose*
		Statistical downscaling from climate model outputs.		*Expose*
		Climate change risk assessment.		*Expose*
Learning Outcomes				
Code		**LO**		
PLO-2.1		Able to describe the atmosphere and weather and climate phenomena. (C2)		
PLO-3.2		Able to process large-scale digital weather and climate data to understand weather and climate phenomena. (C3)		
PLO-5.2		Possesses good knowledge of the contribution of meteorology in addressing climate change, environmental sustainability, hydrometeorological disasters, and renewable energy. (C4)		
Code	**CO**	**Elements of Course Learning Outcomes (CO)**		
PLO-2.1	1	Students are able to describe the climate system, its components, and their changes. (C2)		
PLO-3.2	2	Students are able to process climate model outputs to describe climate change. (C3)		
PLO-5.2	3	Students are able to analyze climate model outputs to support climate change risk assessment. (C4)		
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) 65–79% B (moderate competency) 55–64% C (minimum competency) 45–54% D (below minimum competency) <45% E (far below minimum competency)		