

13. Maritime and Aviation Meteorology

Module Name	Module Name : Maritime and Aviation Meteorology						
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Module Level	:	Bachelor					
Code, if applicable	:	23H06122603					
Subtitle, if applicable	:	-					
Courses, if applicable	:	Maritime and Aviation Meteorology					
Semester(s) in which the module is taught	:	IV (Fourth Semester)					
Module coordinator(s)	:	Dr. Muhammad Alimuddin, Eng.					
Lecturer(s)	:	Dr. Muhammad Alimuddin, Eng. and Saaduddin, S.Pd., M.Sc.					
Language	:	Bahasa (Indonesian language)					
Relation to curriculum	:	Elective course in the second year for Bachelor Degree in Geophysics					
Type of teaching, contact hours	:	This course is delivered through Lectures (i.e., Project/Case-based learning), complemented by structured assignments (paper review, project/case evaluation) and independent study. Contact hours consist of 150 minutes lectures per week, plus 180 minutes per week for each of the following: structured assignments and independent study					
Workload	:	Total workload is 135 hours per semester, consisting of 38 hours for lectures, and 48.5 hours each for structured assignments and independent study					
Credit points	:	3 SKS (4.8 ECTS)					
Requirements according to the examination regulations	:	Students are eligible to attend the examination if their absences are less than 20% of the lectures.					
Recommended prerequisites	:	-					
Module objectives/intended learning outcomes	:	After completion of this module, students will be able to:					
		CLO 1. Able to understand maritime weather and climate instruments and access data from world climate sites;					
		CLO 2. Able to link triggers and maritime disasters due to weather and climate;					
		CLO 3. Able to carry out effective maritime disaster mitigation according to triggers and conditions in the maritime community.					



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		The follow	wing is the	e mapping	g of the IL	O and th	e CLO of	this	
				ILO 4	ILO 7	ILO 11	ILO 14		
			CLO 1	✓	✓				
			CLO 2			✓			
			CLO 3				√	-	
						ı		1	
Content	:		Access to	ner and cl	imate				
		data on the global climate website 2. The relationship between weather and climate							
		р	henomen naritime a	a and a r	number of	f events (in the	
		3. N	/litigation	of maritin	ne and av	iation eve	ents (disa	sters)	
			aused by						
Study and examination requirements									
			Percei	ntage of vement	Grade	Conv	version alue		
			85 -	- 100	A	4	.00		
			80 -	- <85	A-	3	3.75		
			75 -	· < 80	B+	;	3.5		
			70 -	· < 75	В		3.0		
			65 -	· < 70	B-	2	2.75		
				· < 65	C+		2.5		
				< 60	С		00		
				< 50	D		.00		
			<	40	E	0	.00		



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Exams and assessment formats	Assessment in this course consists of a project or case study, assignments, and written examination. The project or case studies conducted in a group or individually and requires students to apply theoretical concepts to analyze and solve a problem, presented in the form of a written report. Assignments are completed individually and may include problem-solving tasks, data processing, or short essays; these are submitted in writte form and may involve graphical or computational outputs. The written examination (<i>closed-book</i> , written) evaluates students' understanding of fundamental concepts covered CLO 1, CLO 2 and CLO 3.	
Reading list	1. Main References:	
	1. Houghton, D. (2005). Weather at Sea 4th ed. Chichester: John Wiley & Sons	
	2. Ives, E., and M. Cornish (2009) Reed's Maritime Meteorology 3rd ed London: Adlard Coles Nautical.	
	Additional References:	
	World Meteorological Organization (2008). Guide to Meteorological Instruments and Methods of Observation (7 th ed.). Switzerland: WMO-No.8	
Last revision date	July 1 st , 2025	