NAME OF THE COL	Meteorology											
Code	PMP161			Year of s	tudy	1						
Course teacher	Jadranka Šepić, PhD, Assistant Professor			Credits (	ECTS)	5						
				Type of i	Type of instruction (number of hours)		S	Е	F			
Associate teachers							0	15	0			
Status of the course	Elective			Percenta application	ge of on of e-learning							
			COUR	SE DESCRI								
Course objectives	<ul> <li>provide knowledge of basic variables and processes in the atmosphere</li> <li>provide knowledge on atmospheric thermodynamic processes</li> <li>provide knowledge on equations describing dynamics and states of the atmosphere</li> </ul>											
Course enrolment requirements and entry competences required for the course	<ul> <li>basics of physics</li> <li>basics of mathematics</li> <li>basics of fluid mechanics</li> <li>basic programming</li> </ul>											
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	It is expected that students will gain basic knowledge on: - atmospheric composition and structure - relevant variables and processes in the atmosphere - thermodynamic of dry and moist air - atmospheric stability - cloud formation and precipitation - fundamental forces acting in the atmosphere - basic equations											
Course content broken down in detail by weekly class schedule (syllabus)	<ol> <li>Atmospheric composition and atmospheric basics (2 hours of lectures)</li> <li>Ais pressure; hydrostatic equilibrium (2 hours of lectures)</li> <li>Solar radiation and heat fluxes (2 hours of lectures)</li> <li>Thermodynamics of unsaturated air (2 hours of lectures)</li> <li>Moisture variables (2 hours of lectures)</li> <li>Thermodynamics of saturated air (2 hours of lectures)</li> <li>Non-inertial reference frame and apparent forces; component equations in spherical coordinates (4 hours of lectures)</li> <li>Scaling analysis. Geostrophic balance and geostrophic wind (2 hours of lectures)</li> <li>Component equations in other coordinates (2 hours of lectures)</li> </ol>											
Format of instruction	⊠ exer □ on lii	inars an cises <i>ne</i> in en al e-leai	•	ps	<ul> <li>□ independen</li> <li>□ multimedia</li> <li>□ laboratory</li> <li>□ work with m</li> <li>⊠ homework</li> </ul>	mentor						
Student responsibilities	Attend at least 70% of lectures and 70% of exercises.											
Screening student	Class		1	Doocorch		Dreaties	troinin					
work (name the	attenda		1	Research		Practical	training					
proportion of ECTS credits for each	Experin work	nental		Report		Homewo	ork	1				
activity so that the total number of	Essay			Seminar essay		(0	Other)					

ECTS credits is equal to the ECTS value of the course)	Tests		Oral exam	1.5	(Other)							
	Written exam 1.5 Project				(Other)							
Grading and evaluating student work in class and at the final exam	Twice during the semester students take preliminary exams (the first preliminary exam consists of the first eight lessons; and the second one of the last four lessons). Students who acquire more than 50% at preliminary exams are exempt from the written exam. Students receive and submit homework during the course. The final grade is formed based on the written exam (or preliminary exams) (40%), homework (20%) and oral exam (40%).											
Required literature (available in the library and via other media)		-	Number of copies in the library	Availability via other media								
	James R. Holto An Introductio Academic Pres	on to Dyn	2	no								
Optional literature (at the time of submission of study programme proposal)	Roland B. Stull An Introduction to Boundary Layer Meteorology Kluwer, 1988.											
Quality assurance methods that ensure the acquisition of exit competences	Exam results statistics and student evaluation through an anonymous survey at the end of the course. The survey is conducted according to the regulations of the University of Split.											
Other (as the proposer wishes to add)												