

Faculty of Forestry in Hajnowka				
Study programme:	forestry	Degree level: full- First degree undergraduate (BSc 7 semesters) full-time time/part-time programme:		
Specialization		Diploma path: -		
Module name:	Meteorology and climatology			
Module type:	obligatory	Semester: I	ECTS 3	Module ID: L1015
No. of hrs in semester:	L - 15	C - 15	LC-	P- SW- S-
Prerequisites:	<i>Complete with prerequisites or "-"</i>			
Teaching methods:	<i>lecture, class</i>	Assessment:	<i>Evaluation must be relevant to the intended learning outcomes</i>	
		lecture - written exam, class - tests		
Aims and objectives:	<i>To familiarize students with values that specify the physical state of the atmosphere and the principles of their measurement. To provide students with basic information about the climate. Ability to predict short-term weather forecasts based on the observation of basic quantities characterizing the state of the atmosphere.</i>			
Module content:	<i>Lecture - written exam, class - test</i>			
Learning outcomes	<i>General information on meteorological measurements and observations, and state of the atmosphere: atmospheric pressure, radiation, sunshine, air temperature, evaporation, humidity, cloudy skies, precipitation, atmospheric circulation - wind, visibility. Basic principles of weather forecasting. Geographical climate factors.</i>			<i>Relevance to the programme learning outcomes</i>
LO1	knows the basic data describing the state of the atmosphere and methods of measurement			K_W01
LO2	Geographical factors can determine the climate			K_W01
LO3	know how to perform basic calculations related to the physical quantities characterizing the atmosphere			K_W01
LO4	know how to determine wind direction and wind rose plot			K_U01
LO5	synoptic maps can read			K_U01
LO6	can predict simple meteorological phenomena			K_U01
LO7	able to work in a team			K_K06
LO8	can independently solve problems			K_K05
	lecture attendance		15 x 1h	15
	participation in classes		15 x 1h	15

student workload	participation in student-teacher sessions related to the class / seminar / project	5 x 1h	5
	implementation of project tasks	15 x 2h	30
	preparation for and participation in tests	10	10
	preparation for and participation in exams	15	15
		TOTAL:	90
quantitative indicators	Student workload - activities that require direct teacher participation 15h+15h+5h	35	ECTS 1
	Student workload - practical skills activities 15h+5h+30h+10h	60	2
basic references:	<i>Meteorologia i klimatologia, praca zbiorowa pod red. Kożuchowskiego K., Wyd. Nauk. PWN, Warszawa 2009, Woś A. Meteorologia dla geografów, Wyd. Nauk. UAM, Poznań 2006, Kossakowska-Cezak U., Martyn D., Olszewski K., Kopacz-Lembowicz M. Meteorologia i klimatologia, pomiary, obserwacje, opracowania, Wyd. Nauk. PWN, Warszawa-Łódź 2000.</i>		
supplementary references:	<i>Woś A. „ABC meteorologii”, Wyd. Nauk. UAM, Poznań 2003,</i>		
learning outcomes	<i>methods of assessing learning outcomes</i>	type of class (if more than one) where the outcomes are assessed	
LO1	credit lecture	L	
LO2	credit lecture	L	
LO3	test	C	
LO4	mark of the exercises performed in class	C	
LO5	test	C	
LO6	mark of the exercises performed in class	C	
LO7			
LO8			
Department:		Group instructors:	dr inż. Małgorzata Rauba
Date: 18.02.2012 r.		Coordinator:	dr inż. Małgorzata Rauba

L - lecture C - class LC - laboratory class P-project
 SW - specialization workshop S - seminar