Faculty of Forestry in Hajnowka												
Study programme:	Forestry	Degree level: full- Firs time/part-time programme: sem					First degree unde semesters) full-tin	t degree undergraduate (BSc 7 nesters) full-time				
Specialization			Diploma path:							-		
Module name:	Forest yield science											
Module type:	obligatory	Se	emester:	III		ECTS	2		Module ID:	LN3030		
No. of hrs in semester:	L - 10	C -	10	LC-		P-	SW	-		S-		
Prerequisites:	Complete with prerequisit or "-"	Complete with prerequisites or "-"			Dendrometry							
Teaching methods:	lactura class laboratory di	Assessment: Evaluation must be relevant to the intended learning outcomes										
	project, seminar, specializa workshop	written exam, oral exam, written tests, project - completion, presentation and discussion of the project										
Aims and objectives:	recognition of the volumne increament and growht regularities depending on various factors, getting the skil in stem analysis, growth models in forestry knowledge											
Module content:	recognition of the current and averange increment of diameter, height and volumne. Stand quality, site index. Stem analisy, Growth and increment of brest height diameter and height. The impact of various factors on growht and incement of forest stands. The increment intensity. Methods for determining the increment of volume and volume elements of the tree and stand, their accuracy and application in practice. Growth models - creating rules and meaning in forestry											
Learning outcomes									Relevance t learnin	o the programme g outcomes		
LO1	can calculate the tree and forest stand volumne increment								L1_W03, L	L1_W03, L1_U13, L1_U15		
LO2	know the different tree species volumne growth rate during vegetation							L1_W03, L	L1_W03, L1_U13, L1_U15			
LO3	can perform the stem analysis							L1_W03, L	L1_W03, L1_U13, L1_U15			
LO4	know the principles of creati	nd using	using the growth models					L1_W03, L	L1_W03, L1_U13, L1_U15			
LO5	can explain the impact of various factors on the growth a trees and stands						rement	L1_W03, L1_U13, L1_U16				
LO6	know the tree species productivity and its consequences for sylviculture							L1_W03, L	L1_W03, L1_U13, L1_U17			

	lecture attendance		5 x2h=	10						
	participation in classes, laborator	5 x2h=	10							
	preparation for classes, laborator	10 X2	20							
be	work on projects, reports, etc.	5 x1h=	5							
orklos	participation in student-teacher s project	5h	5							
nt v	implementation of project tasks	7h + 1h=	8							
nde	preparation for and participation									
st										
			RAZEM:	58						
				ECTS						
	Student workload activities	33	2							
quantitative		43	2							
indicators	Student workload - practical s									
basic references:	 Bruchwald A. 1999. Dendrometria, wydawnictwo SGGW Szymkiewicz B. 2001. Tablice zasobności i przyrostu drzewostanów. PWRiL Czuraj M, Radwański B, Strzemski S. 1960. Tablice miąższości drzew stojących. PWRiL Bruchwald A., Dudzińska M., Wirowski M. 1996. Model wzrostu dla drzewostanów dębu szypułkowego. Sylwan 35-44 									
supplementary references:	1. Borowski M. 1974. Przyrost drzew i drzewostanów. PWRiL Wa-wa 2. Assmann 1968. Nauka o produkcyjności lasu. PWRiL Wa-wa									
learning outcomes	methods of asse	type of class (if more than one) where the outcomes are assessed								
LO1	lectures - written exam, exercises	W, C								
LO2	lectures - written exam, exercises	W, C								
LO3	lectures - written exam, exercises	W, C								
LO4	lectures - written exam, exercises	W, C								
LO5	lectures - written exam, exercises	W, C								
LO6	lectures - written exam, exercises	W, C								
Department:	Faculty of Forestry	Group instructors:	dr inż.Rafał Paluch							
Date:	12.11.2013	Coordinator:	dr inż.Rafał Paluch							

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