Subject name	**Management of Mountain Uneven-Aged Forests**	
Subject code	**E.2.MUAF.SC.ECTIE.L**	
Department	**Forest Management, Geomatics and Forest Economics**	
Faculty	**Forestry**	
Subject supervisor/Lecturer	**Professor Jan Banaś**	
General information	**semester**	**summer**
	ECTS credits	**4.00**
	Lectures total	**8**
	Laboratories/field classes	**8/12**
Objective and general description	The course is designed to solve problems connected with management of uneven-aged forest. Firstly, the functions of forest are recognized and then, with respect to main function, management directions are assumed. During the course students are learnt: the method of forest inventory with control sample plots as well as calculate yield and formulate management plans for uneven-aged forest. **Lectures and field classes** 1. Multifunctional forestry. Forest functions. Relationship between function and structure of forest as well as management directions. 2. Forest inventory in uneven – aged stands. Statistical – mathematical method of control and inventory of forest: theoretical basics of method, principles of establishing net of control plots, 3. Processes of forest development. 4. Yield in uneven-aged forest. Management plans 1. Project of forest delineation. Division of forest on control units. 2. Calculation of feature of trees and stand using data from sample plots. 3. Analysis of processes of mortality and survival of trees using data from 30 years control period. 4. Calculation of yield for uneven-aged stands. 5. Project of management plan. Visiting stands with different functions and different structure (uneven-aged stands with balanced and differential DBH structure, nurse stands, seed stands). Localization of boundary of control units and net of sample plots. Measurement on control sample plots.	
Assessment method	Oral exam	
References	Bettinger P. Boston K. Siry J.P. Grebner D.L. 2009. Forest Management and planning. Elsevier; Meyer H.A. 1952. Structure, growth, and drain in balanced, uneven-aged forests. J. For., 52, 85−92. Banaś J. 2002. Probability of survival and diminution of trees in size gradation for the uneven-aged fir (Abies alba Mill.) forest. Forestry, 5, 13−19. Banaś J. 2006. Influence of number of control sample plots on the accuracy of statistical-mathematical system of inventory. Acta Sci. Pol., Silv. Colendar. Rat. Ind. Lignar., 5(1) 2006, 5−12.	