

"SILVICULTURE 1" DENDROMETRY

Basic data of the subject				
Academic Unit:	Life and Environmental Sciences Faculty			
Course title:	Dendrometry			
Program:	Forestry and Environmental Sciences			
Level:	Bachelor			
Course status:	Compulsory			
Study year:	Second year, first semester			
Number of hours per week:	3+2			
Credit value – ECTS:	6			
Time / location:	To be announced			
Lecturer:	Prof. Asoc. Dr. Faruk Bojaxhi			
Contact details:	faruk.bojaxhi@uni-	prizren.com		
Course description:	Dendrometry is the branch of botany or science that deals with the measurement of trees and forest stands. The term dendrometry comes from old Greek where ("dendro" = wood) and ("meter" = wood measurement). Generally dendrometry represents a biometry of trees and forest stands, so it aims to perform a mathematical description and presentation of woods and forest stands using statistical and mathematical methods.			
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Course objectives:	The dendrometry facility is the description and biometric representation of woods and forest stands, by identifying the laws on the tree shape, the structure of trees and stands and on this basis elaborates methods for their measurement, volume estimation, cluster, structure, etc. Measuring trees and forests is fundamental to the practice of forestry and forestry sciences. Measurements are made to understand how the forests behave and to make sure they are managed correctly.			
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Learning outcomes:	 After completing this course, students should be able to: To describe the object of the science of dendrometry as well as the methods of its study. To apply the rules of forest measurement and its methods. To analyze the age of forests and the definition of sleds. To evaluate the inventory data and forest classification. To develop skills for forest production. 			
Contribution on student load (must correspond with learning outcomes)				
Activity	Hours	Days/week	Total	
Lectures	3	15	45	



Practice work	1	5	5
Contact with lecturer/consultations	1	15	15
Field exercises	1	15	15
Mid-terms, seminars	1	-	1
Homework	-	-	-
Individual time spent studying (at the library or home)	1	15	15
Final preparation for the exam	1	15	15
Time spent in evaluation (tests, quiz, final exam)	1	5	5
Projects, presentations, etc.	4	-	4
Total			150 hours (6 ECTS)
Teaching methods :	Lectures, discussi formula solutions,	ons, consultations, independent proje	technical exercises, cts, colloquia, exams.
Teaching methods : Evaluation methods:	Lectures, discussi formula solutions, During a 15-week final exam.	ons, consultations, independent proje period will hold a c	technical exercises, cts, colloquia, exams. olloquia and
Teaching methods : Evaluation methods: Literature	Lectures, discussi formula solutions, During a 15-week final exam.	ons, consultations, independent proje period will hold a c	technical exercises, cts, colloquia, exams. olloquia and
Teaching methods : Evaluation methods: Literature	Lectures, discussi formula solutions, During a 15-week final exam. Llazar Treska, Thim	ons, consultations, independent proje period will hold a c aq Lako-book,,Den	technical exercises, cts, colloquia, exams. olloquia and drtometria''
Teaching methods : Evaluation methods: Literature Basic Literature:	Lectures, discussi formula solutions, During a 15-week final exam. Llazar Treska, Thim Forest Measureme Avery und Harold E	ons, consultations, independent proje period will hold a c aq Lako-book,,Dene ents, Fifth Edition . Burkhart 8. Mai	technical exercises, cts, colloquia, exams. olloquia and drtometria'' von Thomas Eugene 2015.
Teaching methods : Evaluation methods: Literature Basic Literature: Additional Literature:	Lectures, discussi formula solutions, During a 15-week final exam. Llazar Treska, Thim Forest Measureme Avery und Harold E Manual for forest r Kjellsen	ons, consultations, independent proje period will hold a c aq Lako-book,,Dend ents, Fifth Edition . Burkhart 8. Mai neasurement, from	technical exercises, cts, colloquia, exams. olloquia and drtometria'' von Thomas Eugene 2015. Asbjørn

Designed study plan:				
Week	Lectures	Exercises		
First week:	Statistical parameters in Dendrometry	Presentation and practical demonstration of uses of forest measurement tools which are used in forestry		
Second week:	Theoretical bases of wood measurement	Field exercise, tree measurement in the field (Diameter, Height, Increment, Age)		
Third week:	Methods of measuring the cutting trees	Practical exercise of calculation within sample plot, tree volume, calculation of annual increment,		



		calculation of distances among trees			
		within sample plot.			
Fourth week:	Measuring the standing trees	Practical exercise on calculation of			
		tree laying tree in sections			
Fifth week:	Instruments for measuring of diameter	Practical exercise on calculation of			
	and height	volume of tree based on sections			
Sixth week:	Morphological structure of the forest	Practical exercise in field of			
	stand	morphological structure of forest			
		stand			
Seventh week:	Correlation between height and	Field exercise of assessment of			
	diameter	correlation of diameter and height			
		of tree			
Eighth week:	Important mathematical calculations	Presentation of inventory types in			
		forestry, objectives and goals			
Ninth week:	Measurement of the forest stand	Practical exercise, calculation of			
		volume in level of forest stand			
Tenth week:	Assortment of the standing trees	Field exercise of forest assortments,			
		divided on quality classes			
Eleventh week:	Biomass of trees and forests stands	Assessment and calculation of wood			
		biomass within stand level			
Twelfth week:	Inventory of forest stands	Field exercise of forest inventory in			
		forest stand level			
Thirteenth	Defination of the simple plots	Field exercise of measurements for			
week:		national forest inventory. inventory			
		for forest management plans.			
		inventory of afforestation areas,			
		inventory on assessment of forest			
		fire degradation			
Fourteenth	Auksometria	Practical exercise of Auksometry			
Fifteenth week:	Increase in volum and diameter	Practical calculation of tree volume			
Academic policies and rules of conduct:					



Regular and active participation of students in lectures, exercises (practical part) and in seminar work. Keeping quiet in lecture, disabling mobile phones, timely access to the classroom, etc.