

<b>Studying course: Forestry and Natural Resources Management</b>			
<b>Subject: Wood drying</b>			
<b>Professor/professors:</b> <a href="#">Goran R. Milić</a>			
<b>Status of the subject:</b> Elective			
<b>ECTS number:</b> 5			
<b>Condition:</b> -			
<b>Goal of the subject:</b> The aim of the course is to provide knowledge that will enable a scientific approach to technology of wood drying			
<b>Result of the subject:</b> Ability to independently be the chief technologist in the field of wood drying and heat treatments; Acquire knowledge of the mechanisms of drying stresses in wood and to apply this knowledge to wood drying practice; To be able to use different drying technologies and to understand significance of specific drying phases; To be able to assess the drying quality			
<b>Content of the subject</b> <u>Theoretical part:</u> <i>Wood structure - from the point of drying; Transport processes in wood; Drying phases, movement of water and shrinkage; Developing of stresses during wood drying; Modifications of drying schedules; Drying quality assesment</i> <u>Practical part:</u> <i>Work in the laboratory with instruments (temperature, relative humidity, equilibrium moisture content); Kiln schedules; Industrial kilns visit</i>			
<b>References:</b> W.T. Simpson. Dry kiln operator's manual. 1991. Madison, WI: Forest Products Laboratory Cividini R. Conventional kiln-drying of lumber. 2001. Nardi S.p.A. Siau, J.F. 1995. Wood: Influence of Moisture on Physical Properties. Department of Wood Science and Forest Products, Virginia Polytechnic Institute and State University. 227 pages. ISBN 0-9622181-0-3.			
<b>Number of active teaching lessons:</b> 60 (30+30)	<b>Theoretical part of teaching:</b> 30	<b>Practical part of teaching:</b> 30	
<b>Methods of giving lectures:</b> Lectures, experimental work, interactive learning			
<b>Knowledge evaluation (max 100 points)</b>			
<b>Before exam obligations:</b>	points	<b>Final exam:</b>	points
activity during lectures	10	written exam	40
practical teaching	20	oral exam	
colloquium(s)		.....	
seminar(s)	30		