

COURSE DESCRIPTION CARD

Course name	Non-timber forest products				
Course type	Optional	Course code	SDPB0119	ECTS credits	1
Forms and number of hours	Lecture: 10 h	Scientific discipline	Forest sciences		
Course objectives	To introduce PhD students to knowledge about the use of forest resources other than timber.				
Course content	1. Presentation of the current state of use of non-timber forest products against the historical background in various countries. 2. Non-timber forest products in the context of agroforestry. 3. Alternative methods of forest management and development of the potential of forest resources. 4. Mushroom cultivation in the forest environment. 5. Modern technologies applied to forest products.				
Teaching methods	The multimedia presentation, information lecture, tasks for self-development				
Assessment method	Passing the lecture				
Symbol of learning outcome	Learning outcomes		Reference to the learning outcomes for the field of study for the 8 th level of Polish Qualification Framework (PRK)	Methods of assessing the learning outcomes	
LO1	Knows and understands at an advanced level the revision of the application of paradigms – global achievements, theoretical foundations and general issues and selected specific issues related to the use of non-timber forest applications.		SD_W1, SD_W2	Passing the lecture	
LO2	Is able to use knowledge from various fields of science to creatively identify, formulate and innovatively solve complex problems in the discipline of forestry sciences and the area of use		SD_U1	Passing the lecture	

	of non-wood forest land, also of a research nature, and in particular: <ul style="list-style-type: none">• define the purpose and subject of scientific research, formulate a research hypothesis,• develop research methods, techniques and tools and apply them creatively,• draw conclusions based on the results of scientific research.		
LO3	Is prepared to critically evaluate achievements in the use of non-timber forest land and to critically evaluate his/her own contribution to the development of forestry sciences as well as to maintain and develop the ethos of the research community in this area.	SD_K1; SD_K3	Passing the lecture
Student workload (in hours)			
Lecture		10 / 0 / 0 / 0 / 0	
Consultations		5	
The unassisted student work		15	
Implementation of project tasks and preparation for and participation in exams/tests		10	
Total		40	
ECTS credits		1	
Basic references	<ol style="list-style-type: none">1. Miina J., Kurttila M., Calama R., de-Miguel S., Pukkala T.: Modelling Non-timber Forest Products for Forest Management Planning in Europe. CURRENT FORESTRY REPORTS, 2020, Vol. 6, Issue 4, 309-322, DOI10.1007/s40725-020-00130-72. Shackleton C., Delang C.O., Shackleton S., Shanley P.: Non-timber Forest Products: Concept and Definitions. Editorial Material Chapter in Book Non-Timber Forest Products in the Global Context, Springer-Verlag Berlin 2011, 3-21, DOI10.1007/978-3-642-17983-9_13. Shackleton S., Shackleton C., Shanley P.: Non-Timber Forest Products in the Global Context. Springer-Verlag Berlin 2011, 1-285, DOI10.1007/978-3-642-17983-94. Wolfslehner B., Prokofieva I., Mavsar R. (editors): Non-wood forest products in Europe: Seeing the forest around the trees. European Forest Institut 2019, ISBN 978-952-5980-78-3.		
Supplementary references	<ol style="list-style-type: none">1. Bakier S., Bayko E., Chernaya N.V., Fleysher V.L.: Alternative Method for the Pine Turpentine Production by Supercritical Carbon Dioxide Extraction. Lesnoy Zhurnal-Forestry Journal 2016, Issue 6, 130-141, DOI10.17238/issn0536-1036.2016.6.130		



	<ol style="list-style-type: none">2. Forestry Commission Scotland: The Scottish Government's Policy on Non-Timber Forest Products. Published by - Forestry Commission Scotland - February 2009.3. Joshi H.C., Fulara B.T., Tamta K.K., Tiwari N., Bhawana Ms. (editors): Non Timber Forest Products (NTFPs). Uttarakhand Open University, Haldwani, India, 2023.4. Rigueiro-Rodriguez A., McAdam J., Mosquera-Losada M.R. (editors): Agroforestry in Europe. Current Status and Future Prospects. Springer Science +Business Media B.V., 2009, 1-449, ISBN: 978-1-4020-8271-9
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