Biodiversity and its measurement (MKT1207)

Thematics

Week	Subject	Remarks
1.	Requirements and Thematics. Introduction to Conservation biology. Biodiversity.	
2.	Where is the World's Biodiversity found. Valuing Biodiversity.	
3.	**Threats to Biological Diversity**: Extinction. Vulnerability to Extinction Habitat Destruction, Fragmentation and Degradation. Overexploitation. Invasive Species. Disease. Identifying bird species in the field, useful applications	
4.	**Conservation at the Population and Species Levels**: Problems of small populations. Applied Population Biology. Establishing New Populations Monitoring populations. Ex Situ Conservation Strategies Common bird species of the forest	
5.	**Practical Applications:** Establishing Protected Areas. Designing Networks of Protected Areas. Managing Protected Areas. Conservation Outside Protected Areas. Restoration Ecology Common bird species of the wetland	
6.	**Conservation and Human Societies**: Conservation and Sustainable Development at the Local and National Levels. An International Approach to Conservation and Sustainable Development. An Agenda for the Future **Biodiversity Monitoring**: Types of monitoring. Common bird species of the farmland	
7.	**Designing monitoring systems**. Citizen science: data collection by volunteers. New and changing use of technologies in monitoring Common bird species of the urban area	

8.	**Bird Monitoring in Hungary** – tool for Biodiversity Monitoring	
9.	Monitoring of forest birds	
10.	Monitoring of wetland birds	
11.	Monitoring of urban birds	
12.	Monitoring of farmland birds	
13.	Integrated monitoring of sand martin	
14.	Integrated monitoring of sand martin	

Requirements

Credit:	3
Participation	Compulsory
Requirements:	Accomplishment of mid-term tests
In class test/mark:	0-49 % mark 1 50-59 % mark 2 60-79 % mark 3 80-89 % mark 4 90-100 % mark 5

Sources:	Primack R. B. 2010. Essentials of Conservation Biology.Macmillan Science Allard A., Carina E., Keskitalo H., and Brown A. (eds) 2023. Monitoring Biodiversity Combining Environmental and Social Data. Routledge/Taylor & Francis. https://doi.org/10.4324/9781003179245 Vorisek P, Klvanova A, Wotton S, Gregory RD (2008) A Best Practice Guide for Wild Bird Monitoring Schemes. https://bigfiles.birdlife.cz/ebcc/BPG/BestPracticeGuide.pdf Hill D., Fasham M., Tucker G., Shewry M., Shaw P. 2005. Handbook of Biodiversity Methods_ Survey, Evaluation and Monitoring-Cambridge University Press Kindt R and Coe R. 2005. Tree diversity analysis. A manual and software for common statistical methods for ecological and biodiversity studies. Nairobi: World Agroforestry Centre (ICRAF). https://www.worldagroforestry.org/output/tree-diversity-analysis
Web:	http://zeus.nyf.hu/~szept/kurzusok.htm https://pecbms.info/ https://www.worldagroforestry.org/output/tree-diversity-analysis https://merlin.allaboutbirds.org/ https://birdnet.cornell.edu/app/ https://observation.org/ https://ebird.org/home