

COURSE DESCRIPTION

Course code	Volume in ECTS credits	Institution	Faculty	Department
MIS8007	7	VDU ŽŪA	Forest sciences and ecology	Environment and ecology

Course title in Lithuanian

Biologinės įvairovės apsauga

Course title in English

Biodiversity conservation

Study methods	Volume in ECTS credits
Lectures	2
Consultations	1
Seminars	1
Individual work	3

Short course annotation in Lithuanian (up to 500 characters)

Dalyko tikslas suteikti doktorantams žinių apie biologinės įvairovės lygius, globalius pokyčius, biologinės įvairovės nykimo priežastis, per didelio biologinių išteklių naudojimo, egzotinių rūšių poveikio ekosistemoms pasekmes; biologinės įvairovės ekonominę ir socialinę reikšmę, tarptautinius susitarimus dėl biologinės įvairovės apsaugos, gebėjimų analizuoti biologinės įvairovės apsaugos būdus ir metodus, parinkti biologinės įvairovės apsaugos sistemas konkrečiais atvejais.

Short course annotation in English (up to 500 characters)

The aim of the subject is to provide doctoral students with knowledge of biodiversity levels, global changes, the causes of biodiversity loss, the consequences of excessive use of biological resources, the impact of exotic species on ecosystems; the economic and social importance of biodiversity, international agreements on the protection of biodiversity, the abilities to analyze measures and methods of biodiversity protection, and to select biodiversity protection systems in specific cases.

Relevance of the course

Knowledge of biodiversity levels, global changes, the causes of biodiversity loss, the consequences of excessive use of biological resources, the impact of exotic species on ecosystems; the economic and social importance of biodiversity, international agreements on the protection of biodiversity, the abilities to analyze measures and methods of biodiversity protection, and to select biodiversity protection systems in specific cases.

Course aims

The aim of the subject is to provide doctoral students with knowledge of biodiversity levels, global changes, the causes of biodiversity loss, the consequences of excessive use of biological resources, the impact of exotic species on ecosystems; the economic and social importance of biodiversity, international agreements on the protection of biodiversity, the abilities to analyze measures and methods of biodiversity protection, and to select biodiversity protection systems in specific cases.

Content (topics) and methods

Biodiversity and its importance: the concept of biodiversity, biodiversity levels, biodiversity change, biodiversity assessment, peculiarities of Lithuanian biodiversity (*lectures, individual assignment*).

Biodiversity loss: biodiversity and global change, causes of biodiversity loss, ecosystem degradation, depletion of biological resources, exotic species (*lectures, individual assignment*).

Biodiversity and human: the economic importance of biodiversity, the social significance of biodiversity, international agreements on the protection of biodiversity, the Convention on Biological Diversity (Rio de Janeiro, 1992), the biodiversity conservation strategy and action plan of the Republic of Lithuania (*lectures, individual assignment*).

Protection of biodiversity: protected areas, red book, ex-situ protection, habitats of European interest, protection of key forest habitats, biodiversity in forests and agriculture (*lectures,*

individual assignment).

Structure of cumulative score and value of its constituent parts

Individual assignment 50%; Exams - 50 %

Compulsory reference materials

No.	Authors of publication, title, publishing house, year of publication.
1.	Gaston K.J., Spicer J.I. 2004. Biodiversity: an introduction. Blackwell Publishing, 208p.
2.	Jeffries M.J. 2006. Biodiversity and conservation. Raoutledge: Taylor and Francis group, 256p.
3.	Kurlavičius P. 2005. Biologinės įvairovės apsauga žemės ūkyje. – Kaunas: Lututė, 64p.
4.	Kurlavičius P. 2006. Biologinės įvairovės apsauga valstybiniuose miškuose. – Kaunas: Lututė, 151p.
5.	Lietuvos gamta. Saugomos teritorijos (sud. M. Kirstukas), Lututė, 2004
6.	Malcolm L., Hunter J. 2002. Fundaments of Conservation Biology – Blackwell Science, 547p.
7.	Rašomavičius V. (red.). 2001. Europinės svarbos buveinės Lietuvoje. Vinius: Botanikos institutas, Aplinkos ministerija, 138p.
8.	Stončius D., Treinys R., Mierauskas P. 2001. Gamtotvarkos vaidmuo saugant biologinę įvairovę. Vilnius: Daigai, 87 p.
9.	Sutherland W. 2000. The Conservation Handbook: Research, Management and Policy. Blackwell Science, 278 p.

Supplementary reference materials

No.	Authors of publication, title, publishing house, year of publication.
1.	Andersson L., Kriukelis R. Kertinės miško buveinės – Vilnius, 2004.
2.	Interpretation manual of European Union habitats. 2006. EUR 15/2. ETCNC.
3.	Lietuvos raudonoji knyga - Vilnius, 2007.
4.	Lietuvos raudonoji knyga. Augalų bendrijos – Vilnius, 2000.
5.	Ozolinčius R. (sud.). 2006. Biologinės įvairovės išsaugojimas miškanaudoje.- Kaunas:Lututė, 28p.
6.	Mokslinės duomenų bazės – ScienceDirect; Agricola
7.	Tarptautiniai moksliniai žurnalai – Environmental Pollution, Journal of vegetation science,
8.	Applied vegetation science, Forest ecology and management, Ecological modeling
9.	Lietuvos moksliniai žurnalai – Ekologija, Botanica Lithuanica, Miškininkystė

Course programme designed by

No.	Name, surname	Institution	Degree	E-mail address
1.	Vitas Marozas	VDU ŽŪA	Professor, dr.	vitas.marozas@vdu.lt
2.				