

COURSE DESCRIPTION

Course code	Volume in ECTS credits	Institution	Faculty	Department
MIŠ8018	7	VMU	Forest sciences and ecology	Institute of forest management and wood science

Course title in Lithuanian

Miškotvarka

Course title in English

Forest management planning

Study methods	Volume in ECTS credits
Lectures	2
Consultations	1
Seminars	-
Individual work	4

Short course annotation in Lithuanian (up to 500 characters)

Kursas skirtas pagilinti mokslines žinias bei suvokimą apie mišką, jo tvaraus ir atsakingo naudojimo organizavimą bei susijusius iššūkius ir perspektyvas. Formuojamas sisteminis požiūris į miško naudojimą dabar ir ateityje, siekiant balanso tarp visų miško teikiamų ekosisteminių paslaugų. Pristatomi miškotvarkos teoriniai pagrindai ir praktiniai metodai, miškotvarkos sprendimų priėmimo technologija ir priemonės

Short course annotation in English (up to 500 characters)

The course is designed to provide scientific facts and enhance the knowledge about the forest, sustainable and responsible forest use and associated challenges and opportunities. The course is based on the concept of systematic current and future forest use which is aimed to keep the balance between all forest ecosystem services. Fundamentals and implementation principles of forest management planning are introduced together with the techniques and tools for supporting forest management decisions

Relevance of the course

Having completed this course, the PhD students will acquire the knowledge and skills to aim for a specific forest condition, as well as practical methods to implement them. They will also be able to systemize and critically assess the methods and models of sustainable forest use and improvement.

Course aims

Provide the knowledge about organizing sustainable and responsible forestry under conditions of modern forest policy

Content (topics) and methods

1. Understanding of forest management planning, aim and objectives. Historical glimpse on global and national forest management planning
2. Forestry concepts shaping the forest management planning: principle of sustainable forest use (preconditions to start sustainable forestry, concept, historical types of sustainable forestry, relationship of human and nature and the role of understanding this principle in forest management planning; understanding sustainable forestry, criteria and indicators; sustainability of forest ecosystem services; responsible forestry). Theory of normal forest. Close to nature forestry and its peculiarities under Lithuanian conditions.
3. Methods to implement the forest management planning, format of forest management planning. Forest rotations and cutting ages. Cutting age. Segregative vs integrative forestry
4. Modern forest inventory methods. The role of remote sensing and IT techniques.
5. Principles of planning forest management currently. Internal forest management project in

- Lithuania and globally.
6. Participation in forest management planning.
 7. Decision support in forest management planning. Modelling forest policy and forest management planning scenarios.
 8. Alternative forest management models and forest management planning. The influence of command & control forest governance on forest management planning.
 9. Forest management planning in other countries.
 10. Future vision of Lithuanian forest management and the real world.
 11. Individual assignment depending on the research interests of PhD student.

Structure of cumulative score and value of its constituent parts

Individual assignment - 50%; final exam - 50 %

Compulsory reference materials

No.	Authors of publication, title, publishing house, year of publication.
1.	L. S. Davis, K.N. Johnson, P.S. Bettinger, T.E. Howard. Forest Management. To Sustain Ecological, Economic and Social Values. Waveland Press, Inc., Long Grove, Illinois, 2001, 804 p.
2.	G. Činga, R. Deltuvas, A. Kuliešis, R. Mankus, J.A. Mažeika, G. Mozgeris, M. Puodžiūnas, A. Rutkauskas, A. Tebėra, D. Vitunskas; sudarytojas Juozapas Algirdas Mažeika. Miško naudojimas ir logistika: vadovėlis, Lietuvos žemės ūkio universitetas. Miškų fakultetas. Miškotvarkos katedra. Akademija (Kauno r.): Lietuvos žemės ūkio universitetas, 2008. 399 p.
3.	Lietuvos miškotvarka ir jos raida. Kaunas, 2002, 188 psl.
4.	S. Mizaras, V. Brukas, D. Mizaraitė, Miškų tvarkymo darnumo vertinimas: ekonominiai ir socialiniai aspektai, Kaunas, 2015, 256 psl.

Supplementary reference materials

No.	Authors of publication, title, publishing house, year of publication.
1.	Legal acts specifying Lithuanian forest management planning (e-tar.lt)
2.	Lietuvos miškų metraštis XX amžius, Vilnius, 2004, 632 psl.

Course programme designed by

No.	Name, surname	Institution	Degree	E-mail address
1.	Gintautas Mozgeris	VMU	Dr.	gintautas.mozgeris@vdu.lt
2.	Edmundas Petrauskas	VMU	Dr.	edmundas.petrauskas@vdu.lt