

COURSE OUTLINE

MANAGEMENT OF GAME SPECIES AND GAME ACTIVITY

(1) GENERAL

SCHOOL	TECHNOLOGY		
DEPARTMENT	FORESTRY, WOOD SCIENCES & DESIGN		
LEVEL	POSTGRADUATE		
COURSE CODE	MB123	SEMESTER	2 nd
COURSE TITLE	MANAGEMENT OF GAME SPECIES AND GAME ACTIVITY		
ACTIVITIES		WEEKLY HOURS	ECTS
	Lectures	2	6
	TOTAL	2	6
TYPE OF COURSE	OBLIGATORY		
PREREQUISITES	NO		
LANGUAGE OF TEACHING AND EXAMINATION	GREEK		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	NO		
WEBPAGE COURSE (URL)			

(2) LEARNING OUTCOMES

Learning Outcomes
<p>The purpose of the course is to understand the ecology and modern management of game species with importance for the development of the game economy (wild boar, wild goat, goat, deer, roe deer, ornithomorphs, waterfowl, etc.). Emphasis will be placed on the management and administration of game, so that the trainee is able to draw up both specific and local game management plans, as well as integrate the activity into wider area development plans.</p> <p>Upon successful completion of the course, the student will be able to:</p> <ul style="list-style-type: none"> • knows the biology and ecology of the game species of the country • knows the human dimensions of prey • chooses and applies the appropriate methods of monitoring the prey populations • chooses and applies the appropriate management techniques of game populations • documents game and game management decisions • draw up an effective and comprehensive game management plan in an area • knows how the hunting activity is carried out • assess the current state of game species and their habitats • prepares and implements hunter training plans • knows about the operation of Hunting Organizations • knows about the creation and operation of controlled hunting areas • knows about the establishment and operation of game farms • selects, designs and implements evaluation methods of applied management measures • understands the importance of ecological, social and economic parameters in game management species and their habitats
General Skills

(3) COURSE CONTENT

In the theoretical part of the course the student is taught and learns about:

- **Elements of biology and ecology of game species.** Students will familiarize themselves with the relevant terminology while the biology of the main game species will be presented.
- **Hunting philosophy, ways and methods of hunting, sacrificial hunting, bow hunting – organization and operation of hunting organizations.** The above concepts will be analyzed with relevant examples from practice.
- **Hunting economy and potential for rural development.** The benefits of hunting to the regional economy will be developed and business opportunities that help to rebuild the countryside will be presented.
- **Legislation in the context of the management of game and game species – Organization and operation of game wardens.** The main points of the legal framework governing the hunting and protection of wildlife species will be presented and analyzed, while an extensive reference will be made to the context and the way of operation of the model of the Federal Game Service operated by the Hunting Organizations.
- **Management of wildlife sanctuaries.** The method of institutionalizing the Wildlife Refuges, the feasibility of their establishment and the way of their operation and management will be presented.
- **Habitat assessment methods for the development of game populations – methods for inventorying and monitoring game populations.** The students will familiarize themselves with the ways of evaluating the habitats and habitats of the game species, the development methodologies of their populations depending on the species (mammals and birds in various environments), as well as with the methods of census and monitoring of their populations.
- **Methods of finding age, sex and body condition of game species – Selective hunting methods, trophies.** The methods of determining / estimating / measuring physiological and morphometric parameters of game species will be presented, as well as the methods of selective hunting of specific game species.
- **Habitat improvement techniques.** A key element of wildlife habitat management techniques is the improvement of living conditions, the creation of suitable nesting sites, the creation of food and water sources throughout the year. Implementation methods of the above will be presented with examples from practice (difficulties, techniques, results, management).
- **Management of predation.** The main potential predators of prey species will be presented and cases where a predator species can create pressure on a prey species population will be examined, while management methods will be indicated to maintain the ecological balance.
- **Breeding and release of game.** These are important management measures that, if applied selectively and based on a specific management plan, will help to solve specific problems such as the resettlement of a population of an extinct game species.
- **Diseases of game species – Game safety, hygiene and conservation.** The improvement of the living conditions of wild animal species, as well as the safety of citizens, presupposes a good knowledge of the basic diseases that can affect both humans (West Nile virus, lynx, etc.) and other animals (plague of pigs, pseudolysa etc.), while the appropriate ways to deal with them will be proposed. Students will familiarize themselves with the most important diseases and the ways to deal with related crises.
- **Define sustainable cropping, customized cropping management.** The principles of animal husbandry science require the application of appropriate management measures to ensure sustainable "production" and fruiting. In order to achieve the objectives, methods for determining the relative fruiting of game species will be presented and analyzed.
- **Organization and operation of controlled wave areas. Preparation of game management plan – Hunting areas – Presentation of tasks.** In our country, hunting is practiced in areas where one can hunt by issuing, annually, a hunting license and observing the existing

legislation. However, in areas of limited area (Controlled Hunting Areas) the populations are intensively managed by the competent Forestry Service, so one has to pay an additional monetary price, both for entering them and for hunting every game bird or mammal that is harvested, always until the prescribed number is reached. In this specific module, the student will use the knowledge he has acquired to draw up an integrated plan for the management of game and game species in a specific area. After the end of the course, the students' final works will be presented.

From the 1st lesson, a suggested list of assignments is given that the student should undertake and prepare (individually) until the end of the MSc semester.

The relevant directions are given, while rich material and instructions will be posted in the E-class.

The final assignment includes, in addition to paper and electronic submission, a public oral presentation on the chosen topic, on a set date (usually the 12th or 13th week of classes). The presentation lasts 15 minutes and is followed by 5 minutes of questions from the students present. The teacher intervenes - if necessary - for comments, observations, corrections.

Students are graded on the overall performance of their final paper: 70% on the content and editorial specifications and 30% on the preparation of the online presentation and its oral support.

These grades count for a total of 40% of the overall grade that students will receive after the final written theory exam.

(4) TEACHING AND LEARNING METHODS - EVALUATION

COURSE DELIVERY METHOD	In class and remotely	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	<ul style="list-style-type: none"> • Use of PCs, ppt slides, projector • Support of the learning process through the e-class electronic platform 	
MANAGEMENT OF TEACHING	Activity	Semester Workload
	Lectures	26
	Individual assignments in the management of game species and game from the list of titles to be made available by the teacher	44
	Educational excursion / Small individual practice tasks	10
	Independent Study	70
	Course Total (25 workload hours per credit unit)	150
STUDENT EVALUATION	<p>I. Written final exam (60%) including:</p> <ul style="list-style-type: none"> • Short answer questions from all the material of the book and lectures. • Multiple choice and True-False questions. <p>II. Delivery and presentation of Individual Work (40%).</p>	

(5) RECOMMENDED-BIBLIOGRAPHY

- Suggested Bibliography:

- Decker D., J. Shawn, J.S. Riley and W.F. Siemer. 2012. Human Dimensions of Wildlife Management. Johns Hopkins University Press, 2nd edition. ISBN-10: 1421406543, ISBN-13: 978-1421406541.
- Field R., R.J. Warren, H. Okarma and P.R. Sievert. 2001. Wildlife, Land, and People: Priorities for the 21st Century. The Wildlife Society, Bethesda, Maryland, USA.
- Friend M. and J.C. Franson (eds). 1999-2001. Field Manual of Wildlife Diseases – General Field Procedures and Diseases of Birds.
- Biological Resources Division, Information and Technology Report.
- Fryxell M.J., A.R.E. Sinclair and G. Caughley. 2014. Wildlife Ecology, Conservation, and Management 3rd Edition. Pp. 524. ISBN13: 978-1118291078, ISBN-10: 1118291077.
- Leopold A. 1986. Game Management Reprint Edition. University of Wisconsin Press, Reprint edition. Pp 520. ISBN-13: 978- 0299107741, ISBN-10: 0299107744.
- Manfredo M.J., J.J. Vaske, P.J. Brown, D.J. Decker and E.A. Duke (eds). 2008. Wildlife and Society: The Science of Human Dimensions. Island Press: Washington, D.C.
- Mussehl T. 1971. Game Management in Montana. Publisher: Montana Fish and Game Department. 238 pp.
- Silvy J.N. 2012. The Wildlife Techniques Manual: Volume 1: Research. Volume 2: Management, seventh edition. Johns Hopkins University Press. Pp. 1136. ISBN-13: 978-1118291078, ISBN-10: 1118291077.

- The Game Conservancy. 1986. Game in Winter: Feeding & Management.
- Yarrow K.G., D. Yarrow and Alabama Wildlife Federation. 1998. Managing Wildlife. Sweetwater Press; 1st edition Pp 588. ISBN10: 1581731574, ISBN-13: 978-1581731576.
- Θωμαΐδης Χ., Θ. Καραμπατσάκης, Γ. Λογοθέτης και Γ. Χριστοφορίδου. 1996. Τεχνικός οδηγός βελτίωσης των βιοτόπων του αγριόχοιρου, του λαγού, της πετροπέρδικας και της πεδινής πέρδικας. ΣΤ΄ Κυνηγετική Ομοσπονδία Μακεδονίας-Θράκης, σελ. 110. Δράμα.
- Μπακαλούδης Ε.Δ. και Χ.Γ. Βλάχος. 2009. Διαχείριση άγριας πανίδας – Θεωρία και εφαρμογές. Τζιόλας. Σελ. 290. Θεσσαλονίκη.
- Μπίρτσας, Π., Δέλλιος Γ., Σώκος, Χ. και Κ. Σκορδάς 2006. Κυνηγετικό Εγχειρίδιο. Εκδότης: Κυνηγετική Ομοσπονδία Μακεδονίας και Θράκης. Θεσσαλονίκη, σελ. 320. ISBN: 960-86965-3-4.
- Παπαγεωργίου Ν. 1995. Οικολογία και διαχείριση άγριας Πανίδας. University Studio Press. Θεσ/νικη.
- Παπαγεωργίου Ν. 2000. Εκτροφή θηραμάτων. University Studio Press. Σελ. 242.

- *Related Scientific Journals:*

- European Journal of Wildlife Research
 - Journal of Wildlife Management
 - Wildlife Society Bulletin
 - Human Dimensions of Wildlife
- Σελίδα 4
- Wildlife Biology
 - Wildlife Research
 - Wildlife Biology in Practice
 - Forest Ecology and Management
 - Mammal study