Course title	Hydrobiology
Course code	B45
Course type	full attendance
Course level	1st cycle (bachelor)
YEAR OF STUDY, SEMESTER	3 rd year of study, 1 st semester
NUMBER OF ECTS CREDITS	4
NUMBER OF HOURS PER WEEK	4 (2 lecture hours + 2 seminar hours)
NAME OF LECTURE HOLDER	Gabriel-lonuţ Plavan
NAME OF SEMINAR HOLDER	Gabriel-lonuţ Plavan
Prerequisites	Advanced level of English
A GENERAL AND COURSE-SPECI	FIC COMPETENCES
General competences:	
→ Knowledge of water	as an environment in which life appeared and is maintained.
Course-specific competer	nces:
→ Deepening the stru types and their char	ctural, physical and chemical characteristics of water. Classification of water
J 31	
	peculiarities of hydrobiocenoses in inland and marine waters. Description of ydrobionts to the aquatic environment, depending on the physical, chemical
characteristics and	
	rization of impure waters (elements of saprobiology). Assessment of water
	acity and protection of aquatic ecosystems.
B LEARNING OUTCOMES	acity and protection of aquatic ecosystems.
→ Operating with notions, concepts, laws and principles specific to the field.	
	d classification of living organisms.
→ Exploration of aqua	ů ů
·	algorithms to know the living world.
C LECTURE CONTENT	agonamis to know the living word.
The object of study of Hydro	phiology
Hydrological cycle	
Water as a natural resource	
Water properties	
Types of aquatic ecosystems	S
Associations of aquatic organ	
Bioindicators of aquatic envir	ronment quality
Water pollution in a global pe	erspective
Ecological reconstruction of	aquatic ecosystems
D RECOMMENDED READING FOR	
1. Balian E.V., Leveque C., Segers H., Martens K., 2008 – Freshwater Animal Diver	
Springer	
	gh R., 2003 – Aquatic ecosystems, Academic Press
	nd Pond Managemnt. Guide Book, Lewis Publishers
4. Nicoară M., 2008 - <i>Bi</i>	odiversitatea mediilor acvatice, PIM, Iaşi

- 5. Nicoară M., Ureche D., 2008, (Ediţia a II-a, completată și revizuită) Ecologie acvatică, PIM, Iaşi
- 6. O'Sullivan P.E., Reynolds C.S., 2005 The Lakes Handbook, Vol. II, Blackwell Publishing
- 7. Roth R., 2009 Freshwater Aquatic Bioms, Greenwood Press
- 8. Waldbauer G.P., 2006 A walk around the pond, Harvard University Press

Sampling, storage and transport of water samples

Investigation of the physico-chemical properties of the water

Plankton

	Nekton		
	Benthos		
	Determination of water quality by bioindicators		
F	RECOMMENDED READING FOR SEMINARS		
	 Balian E.V., Leveque C., Segers H., Martens K., 2008 – Freshwater Animal Diversity Assesment, Springer Hauard R.F., Lamberti G.A., 2007 – Methods in stream Ecology. Second Edition, Academic Press Crewe S., 2010 – In Rivers, Lakes and Ponds, Chelsea House Publishers McComas S., Lake and Pond Managemnt. Guide Book, Lewis Publishers Oscoz J., Galicia D., Miranda R., 2011 – Indentification Guide of Freshwater Invertebrates 		
	of Spain, Springer		
	 Subramanian K.A., Sivaramakrishnan K.G., 2007 – Aquatic Insects for Biomonitoring Freshwate Ecosystems. Ecosystems – A Methodology Manual, Asoka Trust for Research in Ecology and Environment 		
G	EDUCATION STYLE		
LEARN	LEARNING AND TEACHING METHODS: systematic exposure: conversation: didactic demonstration		

G EDUCATION STYLE	
LEARNING AND TEACHING METHODS	systematic exposure; conversation; didactic demonstration
ASSESSMENT METHODS	Exam
LANGUAGE OF INSTRUCTION	English