



**"ISMAIL QEMALI" UNIVERSITY, VLORE**  
**FACULTY OF TECHNICAL AND NATURAL SCIENCES**  
**DEPARTMENT OF BIOLOGY**

**APPROVED**  
**Head of the Biology Department**  
**Dr. Aurora BAKAJ**

**COURSE PROGRAM BIO 461 Fauna study techniques**

<b>SUBJECT:</b>	Fauna study techniques
<b>Head/Teacher of the course:</b>	Dr. Ina Nasto
<b>Charge:</b>	1 hour lecture / 1 hour seminar / 2 hours laboratory
<b>Subject typology:</b>	Discipline of integrative / interdisciplinary subjects
<b>Academic year/semester when it takes place:</b>	Year II - Semester II / Spring 2021
<b>Subject type:</b>	Mandatory
<b>Study program:</b>	Master's Professional Teacher AM in Biology with Minor Profile Chemistry
<b>Credits:</b>	4 Credits
<b>Subject code:</b>	BIO 461
<b>E-mail address of the holder/pedagogue:</b>	<a href="mailto:ina.nasto@yahoo.com">ina.nasto@yahoo.com</a> / <a href="mailto:ina.nasto@univlora.edu.al">ina.nasto@univlora.edu.al</a>

**summary AND LEARNING OUTCOMES:**

Faunal Study Methods deals with the methods and techniques of studying fauna, focusing more on the main animal groups. So, methods of studying macroinvertebrates, methods of studying fish, amphibians, reptiles, birds and mammals are treated. Also, determination methods for different groups of animals are treated through the recognition and use of different fauna keys.

**BASIC CONCEPTS:**

- 1 Familiarity with the main methods of fauna study
- 2 Familiarity with the main groups of fauna and their determination methods
- 3 Assimilation of the main protocols and techniques and their implementation in the field

**COURSE TOPICS:**

Topics to be covered in the lectures:

- Topic 1** Introduction to fauna study methodology. General classification of fauna, history of classification.
- Topic 2** Familiarity with key fauna determination methods, monitoring, determination keys and implementation protocols
- Topic 3** Aquatic Fauna, its characteristics, its classification into invertebrates and vertebrates, of inland and sea bridges.
- Topic 4** Methods of studying marine invertebrate fauna according to sea cathesis.
- Topic 5** Methods of studying marine vertebrate fauna according to systematic groups.
- Topic 6** Methods of studying freshwater invertebrate fauna in river and lake ecosystems.
- Topic 7** Methods of studying freshwater vertebrates in river and lake ecosystems.
- Topic 8** Terrestrial fauna, its characteristics, its classification into invertebrates and vertebrates.
- Topic 9** Ways of monitoring terrestrial invertebrates, familiarization with the keys of determination.

- Topic 10** Monitoring of terrestrial vertebrates, bioindicator groups. Familiarity with monitoring protocols by seasons and systematic groups.
- Topic 11** Methods of monitoring amphibians, amphibians as bioindicators.
- Topic 12** Reptile monitoring methods. Ecological indicators.
- Topic 13** Bird monitoring methods
- Topic 14** Mammal monitoring methods
- Topic 15** Teaching practice

**Topics to be covered in the seminars:**

- Topic 1** Introduction to fauna study methodology. General classification of fauna, history of classification.
- Topic 2** Familiarity with key fauna determination methods, monitoring, determination keys and implementation protocols
- Topic 3** Aquatic Fauna, its characteristics, its classification into invertebrates and vertebrates, of inland and sea bridges.
- Topic 4** Methods of studying marine invertebrate fauna according to sea cathesis.
- Topic 5** Methods of studying marine vertebrate fauna according to systematic groups.
- Topic 6** Methods of studying freshwater invertebrate fauna in river and lake ecosystems.
- Topic 7** Methods of studying freshwater vertebrates in river and lake ecosystems.
- Topic 8** Terrestrial fauna, its characteristics, its classification into invertebrates and vertebrates.
- Topic 9** Ways of monitoring terrestrial invertebrates, familiarization with the keys of determination.
- Topic 10** Monitoring of terrestrial vertebrates, bioindicator groups. Familiarity with monitoring protocols by seasons and systematic groups.
- Topic 11** Methods of monitoring amphibians, amphibians as bioindicators.
- Topic 12** Reptile monitoring methods. Ecological indicators.
- Topic 13** Bird monitoring methods
- Topic 14** Mammal monitoring methods
- Topic 15** Teaching practice

**Topics to be covered in the laboratories:**

- Topic 1** General classification of fauna, features of classification
- Topic 2** Acquaintance with the keys to the determination of fauna.
- Topic 3** Aquatic Fauna, general classification, indicators of biodiversity.
- Topic 4** Methods of studying marine invertebrate fauna, main groups, laboratory determination.
- Topic 5** Methods of studying the marine vertebrate fauna, according to systematic groups, familiarization with the keys of determination.
- Topic 6** Methods of studying freshwater invertebrate fauna in river and lake ecosystems, familiarization with the keys of determination.
- Topic 7** Methods of studying freshwater vertebrates in river and lake ecosystems.
- Topic 8** Terrestrial fauna, its characteristics, its classification into invertebrates and vertebrates.
- Topic 9** Ways of monitoring terrestrial invertebrates, familiarization with the keys of determination.
- Topic 10** Monitoring of terrestrial vertebrates, bioindicator groups. Familiarity with monitoring protocols by seasons and systematic groups.
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- Topic 15** Teaching practice

**FORM OF KNOWLEDGE CONTROL**

control	Percentage assessment
Annual assessment Seminars and teaching practice	20%
Final check	80%

**ATTENDANCE:**

The student, who results in less than 75% attendance for the period that belongs to each partial exam, the period for which he will be tested, will not be included in the relevant exam, will be evaluated with M.

If the student has attended the course, but does not appear in the next exam, he is assessed NP (Did Not Appear).

**COURSE FORMAT:**

The subject will be evaluated on the basis of two partial exams, assignments and the final exam. Points earned will be cumulative. The exams will not be repeated, for any reason. If you miss an exam without any major reason, then you will lose points for that exam that you did not appear for.

**COMMUNICATION:**

Homework exercises, course assignments and any other announcements will be given in class or at the official address of the "Ismail Qemali" University of Vlora on the Internet: [www.univlora.edu.al](http://www.univlora.edu.al)apo at the teacher's e-mail address [ina.nasto@univlora.edu .al](mailto:ina.nasto@univlora.edu.al).

**Email:** It is the duty of every student to check e-mail regularly. There will be tasks and notifications will be given only via e-mail.

**HONESTY CODE:**

Students are encouraged to work in groups for the exercises and tasks that are given to them. Copying from one another in exams, course assignments, homework, etc. is not allowed. Violation of this rule will be accompanied by punitive measures up to the expulsion of the student from the university.

**LITERATURE**

**a)Mandatory basic literature:**

Cycle of Lectures: Ina Nasto 2017-2018

**b) Recommended literature:**

Latella, L., & Gobbi, M. (2008). La fauna del suolo: taxonomy, ecology and method of study of the principal group of Italian terrestrial invertebrates. Museo Tridentino di Scienze Naturali.

PROTOCOLLO DI CAMPIONAMENTO E ANALISI DELLA FAUNA ITTICA DEI SISTEMI LOTICI

Lovari, S., & Rolando, A. (2004). Guida allo study degli animali in natura (pp. 1-240). Bollati Boringhieri.

**FINAL REMARKS FROM THE SUBJECT TEACHER**

Homework exercises, coursework and any other notices will be given in class.

Students are also encouraged to work in groups for the homework exercises. Copying from one another in exams, coursework, homework, etc. is not allowed. Violation of this rule will be accompanied by punitive measures up to expulsion from the university.

The use of mobile phones and smoking in the auditorium is not allowed.

**SUBJECT TEACHER**

**Dr. Ina Nasto**

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