

| NAME OF THE COURSE  |  |
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| Code  | PMB417   |
| Course teacher  | Assistant Professor<br>Sanja Puljas, PhD   |
| Associate teachers  |  |
| Status of the course  | Elective   |
| COURSE DESCRIPTION  |  |
| Course objectives   | The aim of this course is to provide students with basic knowledge about making teaching and scientific collections of animals. Students will learn about the various methods and conservation techniques of animals based on the systematic categories of invertebrates and will be familiar with standard procedures used in the creation of the collection of animals.  |
| Course enrolment requirements and entry competences required for the course       | Attended course of Basic Zoology and Invertebrates.  |
| Learning outcomes expected at the level of the course (4 to 10 learning outcomes) | Student will be able to: <ol style="list-style-type: none"> <li>1. interpret knowledge of the systematic categories of invertebrates and different types of collections;</li> <li>2. apply the methods and techniques for the creation of different invertebrate collections;</li> <li>3. apply knowledge of the planning and implementation of sampling techniques for the creation of animal collections;</li> <li>4. recognize the importance of animal collections for the successful implementation for teaching in biology.</li> </ol>   |
| Course content broken down in detail by weekly class schedule (syllabus)          | <p>Lectures:</p> <ol style="list-style-type: none"> <li>1. Introductory lecture - course content, literature and obligations of Students. Systematic categories of invertebrates; Famous invertebrate collections in Croatia and Europe. (2 hours)</li> <li>2. Methods of field sampling of animals used for making collections; Production of wet and dry preparations and preparations in toto. (2 hours)</li> <li>3. Inventories of animal collections (2 hours)</li> <li>4. Types of invertebrate collections; Methods and techniques for the creation of invertebrate collections. (2 hours)</li> <li>5. Malacological and entomological collections. (2 hours)</li> <li>6. Paleontological collections. (2 hours)</li> <li>7. Rare and endangered species of invertebrates and making photo archive. (2 hours)</li> <li>8. Protection and restoration of collections. (1 hour)</li> </ol> <p>Exercises:</p> <ol style="list-style-type: none"> <li>1. Creating a dry collection of sponges and sea corals and fans; Making wet collections of aschelminthes and annelids. (3 hours)</li> <li>2. Creating a different arthropod collections. (3 hours)</li> <li>3. Creating an entomological collections; The methods of butterflies and other insects preparations. (3 hours)</li> </ol> |

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|   | <p>4. Creating a malacological collections and echinoderm collection. (3 hours)</p> <p>5. Photo archive; Methods of protection and restoration of collections. (3 hours)</p>   |  |
| Format of instruction   | <input checked="" type="checkbox"/> lectures<br><input type="checkbox"/> seminars and workshops<br><input checked="" type="checkbox"/> exercises<br><input type="checkbox"/> <i>on line</i> in entirety<br><input type="checkbox"/> partial e-learning<br><input type="checkbox"/> field work                                      |  |
| Student responsibilities  | <p>Students' presence in the amount of at least 70% of scheduled lectures.</p> <p>Performed all laboratory exercises.</p>  |  |
| Screening student work ( <i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i> ) | Class attendance   |  |
|   | Experimental work  |  |
|   | Essay  |  |
|   | Tests  |  |
|   | Written exam   |  |
| Grading and evaluating student work in class and at the final exam  | <p>Grading will be conducted on the basis of activities in practical training in the laboratory and the final oral exam.</p>   |  |
| Required literature (available in the library and via other media)  | <b>Title</b>   |  |
|   | <p>Habdija, I., Primc Habdija, B., Radanović, I., Vidaković, J., Kučinić, M., Špoljar, M., Matoničkin, R. &amp; Miliša, M. (2004): Protista-Protozoa i Metazoa-Invertebrata. Funkcionalna građa i praktikum.- Meridijani, Samobor.</p>   |  |
|   | <p>Matoničkin, I. Habdija, I., Primc Habdija, B. (1998): Beskralježnjaci, Biologija nižih avertebrata, Školska knjiga, Zagreb.</p>   |  |
| <p>Matoničkin, I. Habdija, I., Primc Habdija, B. (1999): Beskralježnjaci, Biologija viših avertebrata, Školska knjiga, Zagreb.</p>  |  |  |
| Optional literature (at the time of submission of study programme proposal)   | <p>M. Prvan, Z. Jakl (2016) Priručnik za zaštitu mora i prepoznavanje živog svijeta Jadrana II. prošireno izdanje. Udruga za prirodu, okoliš i održivi razvoj Sunce. Jafra print d.o.o., 310 str.</p> <p>Šolić, Mladen (2009) Ljepota različitosti: Ekološki uzroci biološke raznolikosti na zemlji, Zagreb : Izvori, 286 str.</p> |  |
| Quality assurance methods that ensure the acquisition of exit competences   | <p>-Taking attendance of students during classes.</p> <p>-Students' survey evaluation of teacher's work.</p> <p>-Feedback from graduated students on the relevance of the course content.</p>  |  |
| Other (as the proposer wishes to add)   | <p>Consultations are taking place according to the agreement with the students or by e-mail: spuljas@pmfst.hr</p>  |  |

