

## Dipartimento di Medicina Veterinaria



General information				
Academic subject	MANAGEMENT TECHNIQUES OF THE SEA FAUNA UNDER TREATMENT  Module of the Course: Techniques for the management and recovery of protected marine species			
Degree course	Animal Science L38			
Academic Year	2021/2022			
European Credit Transfer and Accumulation System (ECTS) 3				
Language	Italian			
Academic calendar (starting	and ending date) II semester			
Attendance	Mandatory			

Professor/ Lecturer		
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Department and address	Veterinary Medicine Campus – Valenzano (BA)	
Virtual headquarters	Microsoft Teams cod. 7s2nw6a	
Tutoring (time and day)	From Monday to Friday 9: 30-16: 30 by appointment via e-mail	

Syllabus	
Learning Objectives	The teaching course aims to acquire by the student a good basic knowledge for the
	management and recovery of protected marine species.
Course prerequisites	The student must have adequate knowledge and skills concerning the General
	Pathology and Pathophysiology, Drug Law, Pharmacovigilance and Toxicology,
	Biosafety and Health Management exams.
Contents	Outline of the rules governing the protection of sea turtles. Bases of anatomy of sea turtles. Bases of physiology of sea turtles. Biosecurity standards for the management of marine reptiles. Restraint of sea turtles. Compilation of medical records.  Monitoring of the main vital parameters (respiratory rate, temperature, application
	of electrodes for ecg). Nutrition status assessment. Evaluation and removal of
	ectoparasites, epibionts and epiphytes from the surface of animals. Evaluation of
	the main reflexes and reactivity of the animals. Evaluation of the movement of
	animals out of water and in water, of normal or altered buoyancy and of the ability
	to dive. Management of relaying tanks (water quality, water salinity calculation).  Preparation and administration of the food by mouth or by tube feeding. How to
	carry out microbiological, cloacal, ocular and wound swabs, provide assistance for
	blood sampling. Wound cleaning and disinfection. Positioning for radiographic,
	ultrasound and CT examinations. Management of surgical instruments during wound
	curettage and minor surgery. Assistance to the veterinarian during turtle anesthesia.
Books and bibliography	Sea Turtle Health & Rehabilitation di C. Manire, T. Norton, B. Stacy, C. Innis, C.
	Harms (2017); J. Ross Publishing.
	Bibliographic material provided by the teachers. Class notes.
Additional materials	



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Total	Lectures		Hands on (Laboratory, working groups, seminars,	Out-of-class study
			field trips)	hours/ Self-study
Hours				Tiours
75	20		25	30
ECTS	20		2.5	30
3	2		1	
Teaching stra		Theoretic	ral lessons are held in a classroom equipped with mult	imadia tools such as a
J		PC, projector, internet connection, in order to show, at the same time as the explanation, power point slides and explanatory videos. The practical activities take place at the Sea Turtle Clinic. The students divided into small groups are followed by the teachers and collaborators. Each student is asked to individually carry out the practical activities covered by the exercise and to discuss them with the teachers or assistants.  There is no provision for teaching in e-learning mode.		
	rning outcomes			
Knowledge and understanding on:		<ul> <li>Knowledge of the main threats to protected marine species;</li> <li>Knowledge of how to recover specimens of protected marine species found in difficulty;</li> <li>Knowledge of the methods of approach and containment relating to protected marine fauna;</li> <li>Knowledge of the most commonly used intervention methods for the management of protected marine fauna.</li> </ul>		
Applying knowledge and understanding on:		0 1	Ability to recognize the main causes that lead a specime marine fauna to be in a state of difficulty;  Ability to identify and solve the main management proprotected marine species;  Ability to support the veterinarian in identifying the book with different situations.	oblems relating to
Soft skills		• Com	Ing informed judgments and choices At the end of the course, the student should be able different critical situations related to the correct man marine species and to propose a correct management circumstances.  In municating knowledge and understanding acquisition of the skills and the correct scientific term correctly relate to veterinarians, biologists and wildling as the ability to work in a team, adopting adequate interaction strategies.  Incities to continue learning acquire the ability to autonomously improve one strategies and in-depth studies, more advanced periods at structures specialized in the care and remarine fauna.	agement of protected t plan in the different ninology to be able to fe technicians, as well communication and s knowledge through I courses and training
Assessment a				
Methods of assessment			vledge and skills acquired will be assessed in the fina the involvement of students in the management and	

present in the Sea Turtle Clinic, as well as through an oral final exam that will ensure

the acquisition of knowledge provided as detailed in the course objectives.



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Evaluation criteria	Knowledge and understanding
	<ul> <li>Know the correct ways of approaching marine fauna under treatment and be able to recognize the different critical situations;</li> </ul>
	Applying knowledge and understanding
	<ul> <li>Knowing how to identify the appropriate modes of action in the presence of a specimen of marine fauna in difficulty;</li> </ul>
	Autonomy of judgment
	<ul> <li>To be able to formulate a judgment regarding the best management procedure of the specimens under treatment according to the different circumstances;</li> </ul>
	Communicating knowledge and understanding
	<ul> <li>Knowing how to appropriately use the specific terminology useful for interacting within a work group;</li> </ul>
	Communication skills
	<ul> <li>Knowing how to appropriately use the specific terminology useful for interacting within a work group;</li> </ul>
	Capacities to continue learning
	<ul> <li>To be able to rework the concepts learned to adapt them to new situations and to be able to draw on the sources available for their management.</li> </ul>
Criteria for assessment and	The assessment of the learning achieved takes place through an oral interview
attribution of the final mark	aimed at ascertaining the degree of knowledge of the proposed topics. The final
	grade is awarded out of thirty. The exam is passed when the grade is greater
	than or equal to 18. The final grade of the integrated exam is the result of the
	weighted average of the marks obtained for each of the two courses. In any
	case, the student must acquire a mark greater than or equal to 18/30 for each
	part of the exam relating to the two courses.
Additional information	