Academic subject: PROPH	YLAXIS OF PARASITIC DISEASE	S OF LIVESTOCK			
Degree Class: L38		Degree Course: Animal ScienceAcademic Year: 2020/2021		ic Year: 21	
		Kind of class: Optional		Year: III	Period: II semester
				ECTS: 2 divided i ECTS le ECTS exe/lab/t	nto ssons: 1 sutor: 1
Time management, hours, i lesson: 10 Hours exe	n–class study hours, out–of–class study /lab/tutor: 25 Hours in–class study	i dy hours dy: 0 Hours out	t–of–cla	ss study:1	5 Hours
Language: Italian	Compulsory Attendance: yes				
Subject Teacher: Riccardo Paolo Lia	Tel: 080 5443802 e–mail: riccardopaolo.lia@uniba.it	Office: Department of Veterinary Medicine, University of Bari "Aldo Moro", Italy	Office days and hours: Monday, Tuesday and Wednesday From 3:00 pm to 5:00 pm		
Prerequisites: Biosecurity and health management Parasitology, Mycology and Management of Sinantropic Animals.					
Educational objectives: The goals of those teaching a 1) to improve the knowled causing diseases in livestock. 2) to acquire technical and pr correct diagnostic approach a	ctivities are: ge on the biological cycle, the epiden rofessional skills in order to assess the and suitable prophylaxis plans for the co	niology and the prop impact of parasites or orrect management o	hylaxis h the ani f the live	of the ma mal welfa estock.	in parasites re through a
Expected learning outcomes (according to Dublin Descriptors)	 Knowledge and understanding: Students will improve their knowledge in: a) understanding the biological interaction among parasite, host and environment; b) developing suitable prophylaxis plans; c) identifying those parasites causing zoonosis through a "One Health" approach; d) studying the close relationship between human and animal health. Applying knowledge and understanding: The aim of the course is to develop skills that are useful for planning and applying proper prophylaxis programs in livestock (cattle, sheep, goat and horse). Making judgments: This teaching will be useful for the student to achieve her/his autonomy in the approach to the parasitic diseases by carrying out prophylaxis and control plans for minimizing the risk of infection.				
	Communication: Students must be able to: (i) fully frachoices made in an understandable and adapting the communication method effectively in the activities of homogeasily start working and making social These aims will be pursued and constitute active participation of students due be encouraged to communicate and	ame their work in wig and convincing way; d to the needs of the eneous and heterogen al relationships. tantly verified during uring theorical and pra- l improve their skills	der cont (ii) trar e interlo neous w the teac actical ac s during	exts and r nsfer their ocutor; (iii orking gro hing activ ctivities. S	notivate the knowledge i) cooperate oups; (iv) to rity, through cudents will ons and lab

activities provided by the course.
Lifelong learning skills:
At the end of the course, the students
1) will know the specific terminology of the subject;
2) will be able to monitor and control by preventative measures the parasitic diseases;
3) will be able to make simple interdisciplinary connections with related subjects and to
deal with "work-experience" and internship activities.

Course program

The teaching contents are in a single module: Parasitic Diseases.

Prophylaxis of parasitic diseases of livestock

Role of parasitic populations on animal welfare and on quantitative-qualitative food production. Health education. Prophylaxis and control measures of parasitic diseases.

1- Tick infestation and tick-borne diseases (TBDs): Babesiosis, Theileriosis and Anaplasmosis;

2- The common protozoal diseases causing abortion in the ruminants;

3- Influence of strongylides-gastrointestinal infestations on the qualitative - quantitative production of milk in sheep farms conducted with traditional systems;

4- Infestation with larval stages (metacestodosis): control, monitoring and epidemiological surveillance plans for ovine hydatidosis;

5- Economic impact of horn and stable Flies (Diptera: Muscidae) on dairy and beef cattle production: myiasis in the Mediterranean basin.

Teaching methods:

Teaching activities: 1+1 CFU/ 35 Hours; Practical activities: 1CFU/ 25 hours (15 hours of Prophylaxis of parasitic diseases of livestock)

The teaching includes theoretical and practical lectures. The teaching activities will be held in classrooms equipped with multimedia tools through the projection for power point presentations. Innovative and interactive teachings will be held through online search in specific parasitology websites.

Practical activities will be hold in didactic laboratories equipped with specific instruments such as optical microscopies. Students will be divided into groups of a maximum 10 people each. They will be followed by the teacher in charge assisted by the researchers and the technicians of the section. Each student will play individually the practical activities consisting in the identification of parasitic organisms by the macro- and microscopic examinations. Furthermore, the student will learn how to sample biological specimens and how to store them. The students will join field activities (i.e., bovine livestock farm).

Auxiliary teaching:

During the laboratory activities, the students will have to wear a personal laboratory coat indicating their name. The biosecurity material necessary for carrying out the practical activities (gloves and masks) will be provided by the staff.

Assessment methods:

The assessment of knowledge takes place through an oral exam on program topics.

The student will have to know prophylaxis of parasitic diseases of livestock. The students have to use the appropriate terminology and able to critically discuss the contents of the subject. The final grade of the exam will be obtained by the average of the marks of the modules of Prophylaxis of Parasitic Diseases of Livestock and Infective Diseases of Livestock.

Bibliography:

-Ambrosi M. "Parassitologia zootecnica", Edagricole Bologna 1995. -AA.VV. Parassitologia dei ruminanti. Summa. Anno XV, n° 9, 1998. -Taylor M.A., Coop R., Wall R., "Parassitologia e Malattie Parassitarie degli Animali", Edizione italiana, EMSI, (2009).

Students will be provided with didactic and photographic material (<u>http://www.bariparasitology.it/pagina-</u>Gallery.html, lecture notes (http://www.bariparasitology.it/materiale.html), study readings in Italian (https://www.vetjournal.it/riviste.html) and English (https://www.ncbi.nlm.nih.gov/pubmed).