

3 credits

30.0 h + 7.5 h

Q2

Teacher(s)	Dehoux Jean-Paul ;Dehoux Jean-Paul (compensates Donnay Isabelle) ;Donnay Isabelle ;Focant Michel coordinator ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	<ul style="list-style-type: none"> <li>- Main bovine diseases (etiology, epidemiology, symptoms, diagnosis, prognostic, prevention, treatment, vaccines')</li> <li>- Basic theoretical and practical notions of ruminant nutrition ' Analysis and formulation of rations based on specific cases.</li> <li>- Reproductive management and assisted reproduction in the bovine.</li> </ul>
Aims	<p>a. <u>Contribution of the activity to the LO (LO from the program)</u> M1.1 ; M1.2 ; M2.1 ; M2.4 ; M4.2</p> <p>b. <u>LO from the program specific to this activity</u> At the end of this activity, the student has acquired basic knowledge on:</p> <ul style="list-style-type: none"> <li>- the main bovine diseases occurring in our region</li> <li>- the main techniques for the management of reproduction and for assisted reproduction used in cattle farming</li> </ul> <p>1 At the end of this activity, the student is able to :</p> <ul style="list-style-type: none"> <li>- predict the zootechnical performances (dairy production, growth rate, ') of dairy cattle, suckler cow, growing bulls on the basis of the composition of the food ration.</li> <li>- analyse with a software for ration formulation a specific ration given to cattle by a farmer; calculate the dietary balance, correct it and propose a more efficient and affordable one by taking into account the factors specific to a given farm.</li> <li>- understand the reproductive management and strategies applied in the farm and evaluate its performance in general.</li> </ul> <p>-----</p> <p><i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>
Evaluation methods	Written and oral examinations (theory) Oral presentation of the resolution of a specific case.
Teaching methods	Lectures Personal exercises with informatics tool Resolution of specific case (during seminars)
Content	<ol style="list-style-type: none"> <li>1. Bacterial diseases (tuberculosis, brucellosis, paratuberculosis); viral diseases (rabies, foot and mouth disease, BVD, IBR); diseases of other origins (BSE); parasitic diseases.</li> <li>2. Nutrition of dairy cows; nutrition of suckler cows, nutrition of growing bulls.</li> </ol> Reproductive anatomy and physiology (reminders) ; reproductive follow up (heat detection, pregnancy diagnosis) ; assisted reproduction (artificial insemination, estrus synchronization and induction, multiple ovulation and embryo transfer, gametes and embryo cryopreservation).
Inline resources	Moodle : powerpoint files and syllabus (part « animal diseases Other : software for ration formulation (INRATION)
Bibliography	le(s) support(s) de cours obligatoires : Fichiers du cours disponibles sur Moodle
Other infos	This course can be given in English.
Faculty or entity in charge	AGRO

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Agricultural Bioengineering	BIRA2M	3		