Academic subject: Animal E	Breeding Techniques					
Degree Class: L38		Degree Course: Animal Science		Academic Year: 2020/2021		
		Kind of class: mandatory		Year: III	Period: I semester	
		EC div EC EC exe		ECTS: 7 divided i ECTS le ECTS exe/lab/t	CTS: 7 livided into CTS lessons: 6 CTS xe/lab/tutor: 1	
Time management, hours, i lesson: 6	n–class study hours, out–of–c 0 exe/lab/tutor: 25 in–cl	lass study hours lass study: 0 out–of–class	study: 9	90		
Language: Italian	Compulsory Attendance: yes					
Subject Teacher:	Tel·+390805443915	Office	Office days and hours:			
Aristide Maggiolino	e-mail: aristide.maggiolino@uniba.it	Department of Veterinary Medicine	Tuesday and Thursday 2:00pm-4:00pm. According to an appointment requested by e-mail. Tutoring can be done using e-learning platforms.			
		Room 36 Floor 1				
Prerequisites: The student must know the veterinary anatomy, physiology and endocrinology of the species in livestock production, with particular reference to the digestive, reproductive, galactopoietic systems and functions, and to body development. It is necessary for the student to know the fundamental principles of genetic improvement and the membelogical and functional exploration of entirely of methods and functions.						
Educational abiesting. The source sing to provide lynewledge tools on traditional and improveding burgeting.						
Educational objectives: The course aims to provide knowledge tools on traditional and innovative breeding						
techniques and on the economic aspects of the production of the various species of zoolechnical interest. In addition,						
in relation to the various form management systems with the sim of increasing the safety and quality of animal						
production and the link between hygiene health and animal welfare, and quantitative-qualitative productivity						
Knowledge and understanding: Knowledge of the breeding techniques for each						
	species and category of zootechnical interest knowledge of the production and hygiene					
	standards and their effects on animal welfare					
	Annlying knowledge and understanding: The student must be able to evaluate the					
	quality of a farming system, identify its strengths and weaknesses and be able to					
Expected learning	propose alternative solutions to	ropose alternative solutions to improve farm management Jaking judgements: Ability to collect all the data from a farm (managerial, animal				
outcomes (according to	Making judgements: Ability					
Dublin Descriptors)	ublin Descriptors) based and obtained from the workforce) necessary for an organic as					
	farm's management quality.					
poultry, rabbit and pets.					pig, noise,	
	Lifelong learning skills: Ability to maintain, develop and expand the knowledge					
Course program: Dairy cat	tle: reproduction management.	Colostrum, reconstituted mil	k. breast	feeding. V	Veal and	
heifer management. Breeding techniques for lactating calf, transition and dry cows. Functional tie of the claws.						
Influence of business management on productive and reproductive parameters. Stables and milking parlors. Technical						
characteristics of mechanical and robotic milking systems. Sensors and software applied for animal welfare and						
management. Beef cattle: Zootechnical categories of beef cattle. Veal calf meat, half lactone, barley beef, baby beef,						
veal: farming techniques, live performance, quality of meat. Cow-veal and heifer-veal line. Sheep and goats:						
reproduction management. Colostrum, reconstituted milk and breastfeeding. Natural and artificial feeding of lambs,						
and kids, weaning. Breeding techniques for lambs or recovery for milk production. Breeding techniques for dry and						
lactating sheep. Sheepfolds and milking parlors. Pasture management and pasture integration. Breeding techniques for						
meat production: suckling lamb, kid, heavy lamb, lamb, mutton. Pigs : types of pig farms and their structural and						
nunctional subdivision. reproduction management. Litters, sucking and weating of piglets. Breeding techniques for						
wais and gins. Faitening techniques and confinercial categories of pigs. Fig farm structures and equipment. Innovative						
breeding techniques for meat production. Horse and donkey breeding techniques for milk production. Training and						
breeding techniques for sport horses (trot, gallop, show jumping, dressage. American riding, endurance). Techniques						
of functional trimming and shoeing. Facilities for equines. Principles of Zootechnical Hygiene : water, food, transport						
of animals, hygiene of livestock facilities. Management of wastewater. Bovine foot and udder hygiene. Buffalo:						

buffalo calf management, heifer and heifer management, lactation management. Milk and meat production.

Teaching methods: The course includes, in the front part, lessons held with the help of slides and collective viewing of websites. In addition, for some topics, the use of co-presence with industry experts is envisaged. At the end of each macro-topic, exercises will be carried out in the field with the possibility for the student to acquire the information received in the classroom in a practical context and self-check the skills relating to management evaluation in the various livestock farms.

Auxiliary teaching: Lessons distributed during the course integrate the reference bibliography.

Assessment methods: Oral exam on topics as for program. The student must demonstrate the skills acquired during the course, the knowledge of the principles of animal breeding techniques; the student will have to demonstrate mastery of technical language and the relationship between animal breeding and quality of livestock production.

Bibliography: Lessons notes. Scientific papers.

BITTANTE G., ANDRIGHETTO L., RAMANZIN M.: Tecniche di produzione animale. Liviana Ed., Torino,

- MONETTI P.G.: Allevamento dei suini e dei bovini. Giraldi Ed., Perugia 2001

- PARIGI BINI R., SOMEDA DE MARCO A.: Zootecnica Speciale dei Bovini. Produzione della carne. Patton Ed., Bologna, 1989

- SUCCI G., HOFFMANN I.: La vacca da latte. Città Studi Ed., Milano, 1993

- SUCCI G.: Zootecnia speciale. Città Studi Ed., Milano, 1995

- Lewis L.D. (1998) Alimentazione e allevamento del cavallo. F. Valfrè Ed., EMSI

- Padalino, Santamaria, Tateo (2010) Tecniche di doma degli equini. Aracne Editore

website:

Hoard's Dairyman http://www.hoards.com/

Penn State Extention http://extension.psu.edu/animals/dairy

Univ of Wisconsin http://www.uwex.edu/ces/dairynutrition/; http://milkquality.wisc.edu/

http://dairymgt.uwex.edu/tools.php

Cornell University http://www.ansci.cornell.edu/prodairy/

http://www.extension.org/beef_cattle

http://beef.unl.edu/

http://www.iowabeefcenter.org/

http://www.ansci.colostate.edu/beef/

http://www.usporkcenter.org/default.aspx#.UV5ySZO7NLd

Iowa Pork Industry Center www.ipic.iastate.edu

North Carolina State University Swine Husbandry http://mark.asci.ncsu.edu/

Ohio Pork Industry Center http://porkinfo.osu.edu/

University of Nebraska Pork Central http://porkcentral.unl.edu/

Illini Pork Net http://www.livestocktrail.uiuc.edu//porknet/

Purdue Pork Page http://www.ces.purdue.edu/pork/

University of Minnesota Swine Extensionhttp://www.extension.umn.edu/swine/