

TEACHING PLAN: Livestock and Poultry Management

SCHOOL: (SOAS) SCHOOL OF AGRICULTURAL SCINCES		ACADEMIC SESSION: 2023 – 2024		FOR STUDENTS’ BATCH: 2022-2026		
1	Course No.	AAP-T-201				
2	Course Title	Livestock and Poultry Management				
3	Credits	3+1				
4	Learning Hours		Contact Hours	75		
			Assessment	9		
			Guided Study	9		
			Total hours	90		
5	Course Objective	<div>1. To study External body parts of cattle and buffalo.</div> <div>2. To study Methods of identification marks and dehorning of animal.</div> <div>3. Study of computerized database on dairy farm and Vaccination and control of ecto and endo parasites in cattle and buffalo.</div> <div>4. Preparation of feeding schedule and feeding different categories of cattle and buffalo.</div> <div>5. To study about the method of milking and composition.</div>				
6	Course Outcomes	<div>1. Give knowledge of indigenous and exotic breeds of cattle, buffalo, sheep, goat and poultry birds (poultry, duck, fowl).</div> <div>2. Develop the understanding of principles, planning, and technical approach for reproduction management in different farm animals. And introduce the diseases of livestock and poultry and its prevention (including vaccination schedule) and control of important diseases of livestock and poultry.</div> <div>3. Develop the ability to select types of houses suited in specific climatic conditions for best management of calves, growing heifers and milch animals.</div> <div>4. Develop the understanding digestion system of livestock and poultry, classification of feedstuffs, nutrients and their functions, feed supplements, feed additives and feeding of livestock and poultry and develop ability to calculate daily ration of cattle.</div> <div>5. Visit of the IDF and IPF to study breeds of livestock and poultry and daily routine farm operations and farm records.</div>				
7	Outline syllabus:					
7.01	Paper Code	Unit	Introduction	Page Numbers	Lect ures	
7.02	AAP-T-201	Unit I	1. Role of livestock in the national economy.		1	
			2. Reproduction in farm animals and poultry.	3-7	2	
			3. Housing principles, space requirements for different species of livestock and poultry.	8-14	2	
			4. Management of calves, growing heifers and milch animals.	15-19		
		Unit II		20-24	2	
			1. Management of sheep, goat and swine.	25-32	2	
			2. Incubation, hatching and brooding.Management of growers and layers.	33-37	1	
			3. Important Indian and exotic breeds of cattle, buffalo, sheep, goat, swine and poultry.	38-45	3	
		Unit III	4. Improvement of farm animals and poultry.	46-49	2	
1. Digestion in livestock and poultry.	50-53		2			
	2. Classification of feedstuffs.	54-57	1			
	3. Proximate principles of feed.	58-59	1			

			4. Nutrients and their functions. 5. Feed ingredients for ration for livestock and poultry. 6. Feed supplements and feed additives. 7. Feeding of livestock and poultry.	60-62 63-67 68-70 71-75	1 1 1 1
		Unit IV	1. Introduction of livestock and poultry diseases. 2. Prevention (including vaccination schedule) and control of important diseases of livestock and poultry.	76-89 90-94	4 2
8	Course Evaluation				
8.1	CA: 10%				
8.1.1	Attendance	25 %			
8.1.2	Homework	2 Assignments, 50%			
8.1.3	Quizzes	2 Quizzes, 25%			
8.1.4	Projects	-			
8.1.5	Presentation	-			
8.1.6	Any other	Practical Examination- 30%			
8.2	MTE	10%			
8.3	End-term examination: 50%				
9	Text Books & References				
9.1	Text book	1. A Text Book of Livestock Production and Management (V. N. Gautam and Shraddha Shrivastava)			
9.2	References	1. BAU, Sabour, Bhagalpur study materials			
9.3	Video References	1.			

Outcome no. → Syllabus topic↓	1	2	3	4	5
Paper Code.Unit I (1)	✓				✓
Paper Code. Unit I (2)	✓	✓	✓	✓	
Paper Code. Unit I (3)	✓	✓	✓	✓	
Paper Code.Unit II (1)	✓	✓	✓	✓	
Paper Code. Unit II(2)	✓	✓	✓	✓	
Paper Code. Unit II(3)	✓	✓	✓	✓	
Paper Code.Unit III (1)	✓	✓	✓	✓	
Paper Code.Unit III (2)	✓	✓	✓		
Paper Code.Unit IV (1)	✓	✓	✓		
Paper Code.Unit IV (2)	✓	✓	✓	✓	✓
Paper Code.Unit IV (3)	✓	✓	✓		✓
Paper Code.Unit IV (4)	✓	✓	✓		✓
Paper Code.Unit IV (5)	✓	✓	✓		
Paper Code.Unit IV (6)	✓	✓	✓		
Paper Code.Unit IV (7)	✓	✓	✓	✓	

QUESTION BANK

Unit 1 Section A

1). The male poultry anatomy consists of how many testes

- a). One
- b). Two
- c). Three
- d). Four

2. Which of the following is not typically included in Poultry farming?

- a). Cow
- b). Chicken
- c). Duck
- d). Turkey

2. Which of the following is not an important component of poultry farm management?

- a) Disease-free breed
- b) Proper food
- c) Dirty conditions
- d) Safe farm conditions

3. What is a domestic fowl?

- a). It lives in a particular region
- b). It is a foreign breed
- c). A bird kept for obtaining meat and eggs
- d). A specific bird kept for breeding purposes only

4. Poultry birds which are exclusively grown for meat are called

- a) layers
- b) cockerel
- c) rooster
- d) broilers

5. In pen mating, several males are kept in the company of a large flock of females.

- a) True
- b) False

6).Central Institute For Research on Goats is located in

- a. Makhdoom
- b. Avikanagar
- c. Hissar
- d. Bikaner

7). Project Directorate on Cattle is located in

- a. Jharnapari
- b. Karnal
- c. Modipuram
- d. Bikaner

8). Slink calf is a

- a. male calf about 1 week old
- b. female calf under 1 year age
- c. male calf under 1 year age
- d. aborted calf

9). A female sheep which is between first and second shearing is

- a. Gimmer
- b. Seggy
- c. Crone
- d. Broken mouth

- 10). A sheep/goat with all the incisor teeth missing is called a
- Gimmer
 - Gummer
 - Seggy
 - Broken mouth

Section B

- Define Reproduction
- Define fertilization
- Define colostrum
- Define oogenesis
- Define artificial insemination in cattle
- Define weaning
- Calf starter

Section C

- What are the advantages of poultry farming?
- Write about care and management of pregnant Cow.
- Draw the sketch diagram of male reproductive system in poultry and mention the name.
- Write about the role of poultry farming industry in Indian economy.
- Write short notes on
(a) Broiler (b) Layer bird
- Domestication of livestock
- Advantage and disadvantage of artificial insemination in cattle
- Write about Principles of housing

Section D

- Briefly discuss about role of livestock in national economy and their importance in rural economy.
- Briefly discuss about system of housing of poultry and also mention their advantage and disadvantage.
- Discuss about care and management of growing heifers like methods of raising heifers, housing and their management.
- Discuss about care and management of milch animal like housing, feeding and their management.
- Sketch a diagram of male reproductive system of farm animals and mention the function of each part of reproductive system.

Unit 2

Section A

- Purified wool grease is called
 - Lanolin
 - Tallow
 - Lard
 - SchmaltzANS: a. Lanolin
- A device for holding a goat for feeding or for milking is
 - Stachion
 - Creep
 - Elastrator
 - TrailerANS: Stachion

3. is imaginary lines from withers to the point of hip on either side and a line joining the two points constitutes it.
- Dorsal Wedge
 - Lateral Wedge
 - Front wedge
 - Caudal Wedge
- ANS: a. Dorsal Wedge
4. In Freeze/Cold branding, application of cold iron to skin of the animal causes destruction of
- Hair follicles
 - Melanocytes
 - Sebaceous glands
 - Sweat glands
- ANS: b. Melanocytes
5. is a main organization under the control of ICAR for involving the conservation of animal genetic resources
- NABARD
 - NBGAR
 - NIANP
 - NDRI
- ANS: NBGAR
6. Which of the following is not a characteristic feature of a broiler?
- Generally, they are females
 - Sold in fresh or frozen form
 - Grown for 6-7 weeks
 - Also called as table birds
7. Which of the following is not a characteristic feature of Layers?
- Females having a high rate of egg production
 - They are never vaccinated
 - Birds are given a fresh balanced diet
 - The best layers belong to White Leghorn
8. Usually, females of dual-purpose breeds are raised as broilers while the males are raised as layers.
- True
 - False
9. Which of the following is not obtained by eating eggs?
- Protein
 - Lipid
 - Carbohydrate
 - Alcohol
10. Which of the following is an Indian breed of Poultry?
- Busra
 - White leghorn
 - Australorp
 - Plymouth Rock

Section B

- Define disbudding
- Define castration
- Name any four external body parts of Buffalo.
- Name any two exotic Cow breed.
- What is incubation period of chicken?

14. What is objective of debeaking in poultry?
15. Which breed of buffalo has highest fat in milk?
16. Which breed of cow has highest fat in milk?
17. Define Silage?
18. Write the name of any 4 crops for silage?
19. Write the name of any 2 crops for Hay?

Section C

1. Differentiate between silage and hay.
2. Write the system of breeding in animals.
3. Write the role of livestock in Indian Economy?
4. What is animal disease and write the common symptoms of sick animals?
5. Write the any four breeds of cow, origin place, milk production and its characters.

Section D

1. Briefly discuss the management of sheep and goats during the reproductive cycle.
2. Classification of cattle breeds, explain about the milch breeds, draught breed and also dual purpose breed in India
3. Buffalo breeds in India and its importance in milk production
4. Write about the advantage of pig farming and also mention their scope and housing management
5. Pointers for higher egg production

Unit 3 **Section A**

1. The long axis of the livestock housing should be in direction in tropical countries and direction in temperate countries
 - a. East West, North South
 - b. South west, North East
 - b. North South, East West
 - c. North East, South West

ANS: a. East West, North South
2. Lower edges of the roof which is resting on the supporting wall is
 - a. Eaves
 - b. Gable
 - c. Ridge
 - d. Rafters

ANS: a. Eaves
3. The horizontal distance between the internal faces of walls or supports is
 - a. Purlins
 - b. Span
 - c. Run
 - d. Rise

ANS: b. Span
4. Pitch should not be exceeded at
 - a. 35 degree
 - b. 45 degree
 - c. 55 degree
 - d. 50 degree

ANS: b. 45 degree
5. Kundi and Godhavari belongs to group of buffalo breeds
 - a. Gujarat

- b. Murrah
- c. Central India
- d. Uttar Pradesh

ANS: b. Murrah

6. Which is a bird or animal that is raised in largest scale in the scale in the world?

- A) Goat
- B) Sheep
- C) Hen
- D) Turkeys

7. After how many days does a candle light test tells us about chicken being formed inside the egg ?

- A) 3 - 4 days
- B) 5-7 days
- C) 10-12 days
- D) 20-22 days

8). A Candlelight test is used to measure ____ of an egg by Incubator maintainers.

- A) External shell quality
- B) Internal egg quality
- C) Colour of egg
- D) None

9) Eggs are measured in ____ ?

- A) Kilograms
- B) Meters
- C) Dozens
- D) Quintals

10) An egg dropped inside a water glass sinks immediately. The egg is ____?

- A) Fresh
- B) Old
- C) Spoiler
- D) None

Section B

1. What are the vaccines and their schedule in poultry?
2. Define calf. How you will manage a new born calf in organized dairy farm?
3. What is colostrums? Write importance of colostrums feeding.
4. Describe the economic traits for sheep and goat.
5. How you will manage the young goats up to 6 month of age?
6. Importance of goat farming in India.
7. Write in detail about the management of advanced pregnant cows.
8. What is estrus? How you will detect the heat in cattle?
9. What is forage? Classify fodder crops.

Section C

1. Explain selection and Methods of selection

2. Write in detail about various methods to estimate the sire index.
3. Classification of cattle breeds of India
4. Exotic cattle breeds used for cross breeding program in India
5. Buffalo breeds of India
6. Short notes on Yak
7. Short notes on Mithun
8. Classification of poultry breeds

Section D

1. Classification of breeds of poultry
2. Selection for combining abilities
3. Sketch the diagram of digestive system of livestock and mention the name of each part and write the function of each part of digestive system.
4. Sketch the diagram of digestive system of poultry and mention the name of each part and write the function of each part of digestive system.
5. Write about the various feedstuffs used in livestock and broadly discuss their classification.

Unit 4

Section A

1. Uttar Pradesh group of buffalo breed includes Bhadawari and
 - a. Manda
 - b. Jerangi
 - c. Surti
 - d. Tarai
 ANS: d. Tarai
2. Origin of Red Dane cattle breed is
 - a. Netherland
 - b. France
 - c. Dutch
 - d. Texas
 AMS: c. Dutch
3. Which among the following is wrongly matched?
 - a. Rathi – Aiiwar district of Rajasthan
 - b. Nagori – Jodhpur district of Rajasthan
 - c. Malvi – Kheri district of Uttar Pradesh
 - d. Mewati – Bharatpur district of Rajasthan
 ANS: c. Malvi – Kheri district of Uttar Pradesh
4. Which among the following has lyre horned?
 - a. Hallikar
 - b. Gir
 - c. Ongole
 - d. Malvi
 ANS: d. Malvi
5. The crossbred cattle strain, Jamaica hope is created by crossing Jersey, Holstein Friesian and
 - A, Brahman
 - b. Angus
 - c. Sahiwal
 - d. Kankrej
 ANS: c. Sahiwal
6. Quantity of colostrum fed to buffaoc calf is of its body weight
 - a. 1/10th
 - b. 1/15th

- c. 1/20th
- d. 1/25th
- ANS: b.1/15th

7) What is the temperature of an Egg at the time of laying by hen?

- A) 98F
- B) 100F
- C) 105F
- D) 120F

8) Which is a bird or animal that is raised in largest scale in the world.?

- A) Goat
- B) Sheep
- C) Hen
- D) Turkeys

9) Who is the mother of Broiler Poultry Farming.?

- A) James Harbor
- B) Wilmer Steel
- C) William Hanna
- D) Wilkinson

10) What are the type of Chicken Poultry Farming.?

- A) Layers
- B) Broilers
- C) A and B
- D) None of the above.

11) Broiler Poultry Farming is mainly aimed at.?

- A) Eggs
- B) Meat
- C) Quils
- D) Animal or Bird Fat Oil

12) Layer Poultry Farming is mainly aimed at.?

- A) Eggs
- B) Meat
- C) Quils
- D) Animal or Bird Fat Oil

13) Which Vitamin deficiency is the main problem for Poultry Farming Birds in Winter.?

- A) Vitamin B
- B) Vitamin C
- C) Vitamin D
- D) Vitamin E

14) Which is the chemical that improves brain mental state after eating Chicken.?

- A) Serotonin
- B) Thyroid
- C) Insulin
- D) Dopamine

Section B

1. Write the management of milch animals?
2. What is fertilization?
3. What is Heifer?
4. Define herd?
5. Which breed of hen has black color chicken?
6. Define Full sib
7. Define Truncation
8. Define Selection
9. Define Generation interval
10. Define Animal Breeding
11. Define Contemporaries
12. Define Line breeding

Section C

1. Write in detail about care and management of calves and heifers.
2. Write the name and function of any four equipment used in veterinary.
3. Write the composition of animal body and write the function of water in animals?
4. Write about the different breeds of Goat and Sheep
5. Classification of cattle breeds in India, explain about the milch breeds in India

Section D

1. Briefly discuss about important disease of livestock and its treatment.
2. Briefly discuss about common disease of poultry and its treatment.
3. Briefly discuss about common disease of sheep and goat and their control.
4. Briefly discuss about cannibalism and feather picking
5. Discuss about vaccination schedules for cattle and buffaloes
6. Discuss about vaccination schedules for sheep and goat