

ACADEMIC PROGRAMS

Under-Graduation (B.V.Sc. & A.H.) Courses as per Veterinary Council of India (VCI-2016)

Livestock Production Management

Unit – 6

Title : Poultry Production Management

S. N.	Topic
1	Indian poultry industry – Brief outline of the different segments – poultry statistics Classification of poultry with respect to production characters, age and standards
2	Production characters of other avian species
3	Description of indigenous fowls and their value in rural farming. Specific strains developed for rural poultry production; their acceptability and importance in rural eco-system
4	Housing –Types of poultry houses – space requirements. Recent advances in housing systems and rearing systems.
5	Scavenging system of management – Low input technology – Backyard and semi-intensive units; their management and economic achievements.
6	Deep litter management – control of litter-borne diseases and recycling of litter.
7	Brooding management – Types of brooders – preparation of shed – Importance of environmental factors
8	Cage management – Different types; Advantages and disadvantages.
9	Management of growers
10	Management of layers.
11	Management of broilers
12	Management of breeders.
13	Stress management, Water management
14	Feeding management–Classification of nutrients
15	Nutrient requirements and feed formulations.
16	Feeding systems–Feed restrictions – phase feeding – Additives and supplements.
17	Breeding systems and methods of mating. Breeding for specific characters and for hybrid chicken production.
18	Selection and culling. Poultry judging. Egg structure – Physical and chemical composition.
19	Common poultry diseases : Bacterial and viral diseases, Coccidiosis
20	Common poultry diseases : Metabolic and Deficiency diseases
21	Bio-security and principles of disease prevention management.
22	Health care for common poultry diseases – vaccination. General principles of poultry medication.

Unit – 7

Title : Diversified Poultry Production And Hatchery Management

S. N.	Topic
1	Principles of incubation, Hatchery management practices
2	Factors affecting fertility and hatchability
3	Selection and care of hatching eggs and Hatchery hygiene, Candling, sexing, grading, packing

	and disposal of hatchery waste.
4	Economics of hatchery business – Troubleshooting hatchery failures–Computer applications in hatchery management
5	Poultry waste management, Pollution and environmental issues
6	Organic and hill farming
7	Mixed or integrated poultry farming, Vertical & horizontal integration in commercial poultry production – Contract farming
8	Export import of poultry produce and marketing
9	Management of Ducks
10	Management of Japanese quails
11	Management of Turkeys
12	Management of Geese and Guinea fowls

PRACTICAL

Unit – 5

Title : Poultry Production Management

S. N.	Topic
1	Common breeds of poultry, different classes
2	Indian chickens and other avian species breeds
3	Digestive and respiratory system of chicken., Male and female reproductive system–Egg structure, physical and chemical composition, Quality changes in egg during storage
4	Economic traits of broilers. Economic traits of egg-type chicken and breeders. AI in poultry
5	Housing and design of a poultry farm, Automization in poultry farms (EC house)
6	Poultry farm equipment and their classification
7	Brooding arrangement in broiler farms
8	Poultry feed ingredients and its quality assessment. Poultry feed preparations
9	Calculation of different economic indices of broiler farm. Calculation of economic indices of layer farm
10	Fundamentals in poultry Post-mortem examination for sample collection. Collection and dispatch of samples for PM examination.
11	Management during Summer, Winter and Rainy season.

Unit – 6

Title : Incubation And Hatchery Management

S. N.	Topic
1	Hatchery layout and design.
2	Project report for establishing a broiler farm.
3	Project report for establishing a layer farm.
4	Project report for establishing a breeder farm.
5	Visit to commercial poultry farms or hatchery or feed mill.
6	Visit to farms of other avian species.

Mvsc in Poultry Science (Two Years)

<u>First Semester</u>			
1	PSC/602	Poultry Nutrition & Feeding	2+1=3
2	PSC/603	Commercial Layer Production	2+1=3
3	PSC/604	Commercial Broiler Production	2+1=3
4	PSC/609	Physiology of Poultry Production	2+1=3
			Total 8+4=12
<u>Second Semester</u>			
1.	PSC/601	Poultry Breeding & Genetics	2+1=3
2.	PSC/607	Poultry Products Technology & Marketing	2+1=3
3.	PSC/608	Poultry Economics, Project & Marketing	2+1=3
			Total 6+3=9
<u>Third Semester</u>			
1.	PSC/605	Breeder Stock, Flock Health & Hatchery Management	3+1=4
2.	PSC/691	Master's Seminar	1+0=1
3.	PSC/606	Management of Poultry other than Chicken	2+1=3
			Total :6+2=8
<u>Fourth Semester</u>			
1.	PSC/625	Research	0+15=15
			Total:0+15=15
<u>Minor Subjects</u>			
1		Animal Genetics & Breeding	
2		Animal Nutrition	
3		Livestock Products Technology	
4		Livestock Production & Management	
<u>Optional or Supplementary Courses</u>			
1	PGS/501	Library & Information Services	0+1=1
2	PGS/502	Technical Writing & Communication Skills	0+1=1
3	PGS/503	Intellectual Property & its Management	1+0=1
4	PGS/503	Disaster Management	1+0=1

Total :2+2=4

PhD in Poultry Science (Three Years)

Semester	Course No.	Course Title	Credit Hrs
Major Field:			
I Semester	PSC - 701	Applied Poultry Nutrition	2+1=03
	PSC - 702	Concepts in Commercial Poultry Production	2+1=03
II Semester	PSC - 704	Emerging Disease of Poultry and Flock Health	2+1=03
	PSC - 705	Advanced Poultry Breeding Methods	2+1=03
III Semester	PSC-706	Poultry Economics, Marketing and Integration	2+1=03
	PSC-791	Doctoral Seminar	1+0=01
IV Semester	PSC - 703	Developments in Poultry Products Technology	2+1=03
	PSC - 792	Doctoral Seminar - II (Major)	1+0=01
V Semester	PSC -799	Doctoral Research	0+12=12
VI Semester	PSC -799	Doctoral Research	0+12=12
VII Semester	PSC -799	Doctoral Research	0+12=12
VIII Semester	PSC -799	Doctoral Research	0+9=09
		Total credits	14+51=65

INTERNSHIP COURSE

During the academic program of BVSc & AH Course students has to complete their internship program at Poultry Research and Training Centre for minimum one month. Few of them registered for two months to enhance entrepreneurial skill to learn Poultry production and management covering layer and broiler production, hatchery and chick management, record keeping and other related activities. At the end students has to prepare the report about internship program