POULTRY FARMING

Semester	Subject Code	Category	Lecture		Theory		Practical	Credits
			Hrs/ week	Total Hours/ Semester	Hrs/ week	Total Hours/ Semester		
I		Elective-I	3	45	3	45	Nil	3

COURSE OBJECTIVES

- To understand the poultry industry based on the past , present and emphasis of future growth To study the statistical data and various functions involved in poultry industry.

COURSE OUTCOMES

On the successful completion of the course, students will be able to:

CO Number	CO Statement	Knowledge Level (K1-K4)
CO1	To get employment opportunities in the Hatchery and Poultry farm .To understand the types of poultry and development of poultry industry in India .	K3&K2
CO2	To understand the genetic classification and economic traits of poultry.	K2
CO3	To acquire knowledge on Mendelian inheritance	K2
CO4	To analyze the information about common breeding like inbreeding and out breeding.	K4
CO5	To understand about the feeding habit and digestive process of chickens.	K2

Knowledge Level : K1-Remember ; K2 –Understand ; K3 – Apply ; K4 – Analyze

MAPPING WITH PROGRAMME OUTCOMES

COS	PO1	PO2	PO3	PO4	PO5
CO1	S	S	M	S	S
CO2	M	M	S	S	M
CO3	S	S	S	M	S
CO4	M	S	M	S	M
CO5	S	M	S	M	S

S- Strong; M – Medium ; L- Low

DISTRIBUTION OF MARKS: THEORY 100%

UNIT-I 9 Hours

INTRODUCTION AND DEVELOPMENT OF POULTRY FARM

Introduction –definition of poultry –broiler,layer and breeder-common terms related to poultry-development of poultry industry in india.Past and present scenario of poultry industry-domestication of poultry. Role of government /private agencies in poultry development.

UNIT-II 9 Hours

GENETIC CLASSIFICATION OF POULTRY

Origin and breed characteristics of poultry. Basic genetics –common terms-chromosome number in different species-qualitative traits-auto sexing –economic traits.

UNIT-III 9 Hours

INHERITANCE OFMENDELIAN CHARACTERS

Dominance and Excessiveness of mendelian characters , homozygous and heterozygous individuals. Mendelian inheritance –the law of segregation and recombination , the law of independent assortment. Sex-linked inheritance –distinguishing sex at hatching time.

UNIT-IV 9 Hours

OBJECTIVES OF POULTRY BREEDING FOR MEAT AND EGG PRODUCTION

Methods of mating –flock,pen,pair and artificial insemination. Breeding –common breeding programs practiced in industry.

Breeding for high hatchability-influence of sire Dam, influence rate of laying, effects of inbreeding and cross breeding.

UNIT-V 9 Hours

FEEDING AND DIGESTIVE PROCESS

Digestive system-factors influencing the feed consumption in birds-Macro and micro nutrient requirements and feeding for various species of poultry. Classification of feed ingredients-Conventional feeds and Non-Conventional Poultry feeds-Energy sources, vegetative protein sources, animal protein sources.

TEXT BOOKS:

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1	Arumugam, N., Murugan, S., Johnson. and Ram Prabhu, R.	Applied Zoology	Saras Publication, Kanyakumari	2005
2	Isabel Guerrero and Legarreta	Hand Book of Poultry Science and Technology	John Wiley and Sons, New Jersey.	2010

3	Jawaid, A. and Sinha, S. P.	A Handbook of Economic Zoology	S. Chand & Company, New Delhi.	2008
4	Jabde and Pradip V	Text Book of Applied Zoology	Discovery Publishing House, Delhi	2005
5	Upadhya, V.B	Economic Zoology.	Rastogi Publications, Meerut, India.	2006

REFERENCE BOOKS:

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1.	Bell D.Donald and weaver D.William.Jr.	Commercial chicken meat and egg.Production	Springer,India Pvt Ltd.,Noida.	2007
2.	Prakash Malhotra	Economic Zoology	Adhyayna Publishers & Distributors, New Delhi.	2008
3.	Khan, A. A.	Encyclopedia of Economic Zoology. 2 vols	Anmol Publications Pvt. Ltd., New Delhi.	2007
4.	Scott, M.L., Nesheim, M.C. and Young, R.J.	Nutrition of the Chicken. 3rd ed.	Ithaca, New York.	1982
5.	Biester, H.E. and Schwarte, L.H.	Diseases of Poultry, 5th Edn	Oxford and IBH Publishing Co, New Delhi.	1969

WEB SOURCES:
www.livescience.com
www.sciencemag.com
www.treehugger.com
www.nature.com

TEACHING METHODOLOGY
- Class room teaching
- Assignments
- Discussions
- Home test
- PPT Presentation
- Demonstration from the Video slides, videos and interactive software.

SYLLABUS DESIGNERS
- Dr D.Sasikala, Assistant Professor & HOD
- Dr.V.Kiruthiga, Assistant Professor
- Dr V.Rekha, Assistant Professor
- DrA.Vinodhini, Assistant Professor
- Dr.G.Vidhya, Assistant Professor
- Dr. S. Vijayakumari, Assistant Professor