



CENTRE OF ADVANCED FACULTY TRAINING

AVIAN SCIENCES, DEPARTMENT OF POULTRY SCIENCE,
VETERINARY COLLEGE AND RESEARCH INSTITUTE,
NAMAKKAL , TAMIL NADU.

Introduction:

The Department of Poultry Science in Veterinary College and Research Institute, Namakkal was started during the year 1985 and continuously offering Under-Graduate Education (B.V.Sc. & A.H.), the Post-Graduate courses viz. M.V.Sc. and Ph.D. were started from 1993 and 1995 onwards, respectively. The multifaceted activities of this Department are,

- 1) U.G. and P.G. education,
- 2) Centre of Advanced Faculty Training in Avian Sciences (ICAR Scheme),
- 3) Maintaining Poultry Farm Complex,
- 4) Maintaining Hatchery for supplying day-old chicks of several poultry species,
- 5) U.G. co-ordination activities (2006-07 batch),
- 6) Carrying out Post-Graduate and need based researches and
- 7) Extension activities.

Under VCI syllabus, one U.G. course, LPM 322 - Avian breeding, feeding and management (3+1) is offered for B.V.Sc. & A.H. students in sixth semester. However, in the present VCI pattern, the number of courses is increased into two.

1) LPM 211 Avian Production and Management (1+1) and 2) LPM 221 - Commercial Poultry Production and Hatchery Management (1+1).

For M.V.Sc. students 8 courses are offered each year. So far, 42 M.V.Sc. students and 9 Ph.D. scholars obtained their degree and five are in progress. Apart from routine Department's Post-Graduate research activities, other externally funded research schemes and Tamil Nadu State Council for Science and Technology research projects were carried out in this Department.

Objectives

- To impart teaching for Under Graduate, Post Graduate and Doctoral Programmes.
- To conduct research programmes for M.V.Sc., and Ph.D., Scholars
- Farm advisory services.
- Conducting training programme to the progressive farmers.

Objectives of CAFT

To enhance the competence to undertake advanced education and research activities and training of scientists / faculty members during each five year plan periods.

Faculty: Name and Designation (as on 30.09.2011)

1. Dr.S.C. Edwin, Ph.D.,
Professor cum Director i/c,
Department of Poultry Science,
Veterinary College and Research Institute,
Namakkal – 637 002,
Tamil Nadu.
2. Dr.M.Moorthy, Ph.D.,
Associate Professor,
Department of Poultry Science,
Veterinary College and Research Institute,
Namakkal – 637 002,
Tamil Nadu.
3. Dr.R.Amutha, Ph.D.,
Associate Professor,
Department of Poultry Science,
Veterinary College and Research Institute,
Namakkal – 637 002,
Tamil Nadu.
4. Dr.K.Rajendran, M.V.Sc.,
Assistant Professor,
Department of Poultry Science,
Veterinary College and Research Institute,
Namakkal – 637 002,
Tamil Nadu.

Human Resources Development Particulars of Short courses / Training program for HRD conducted during XI plan period:

S.No.	Name of the programme	Period	No. of Participants		
			Internal	External	Total
1.	Application of newer concepts in breeder flock and hatchery management	28.11.2007 to 18.12.2007	3	8	11
2.	Alternate poultry production systems for socio-economic	06.02.2008 to	3	8	11

	development	26.02.2008			
3.	Strategies to overcome the emerging health and nutritional challenges in poultry production	12.11.2008 to 02.12.2008	2	16	18
4.	Technological advances in value added poultry production	04.02.2009 to 24.02.2009	3	17	20
5.	Capacity building for augmenting poultry production in the present global scenario	03.03.2010 to 23.03.2010	3	8	11
6	Challenges and constraints in poultry production and their mitigation	24.11.2010 to 14.12.2010	3	17	20
7	Emerging Trends in Diversified Poultry Production	09-29 Nov., 2011			19

06 . Infrastructures developed (equipment etc)

Year	Name of the equipment	Cost (Rs. In lakh)	Total Cost
2008-2009	Plain paper copier	1.0	2.50
	LCD projector (Wall mount)	1.5	
2009-2010	-	-	-
2010-2011	-	-	-
2011-2012	-	-	-

07. Renovation of lecture Room / Laboratories: Nil

08. Library upgraded:

1. Latest text books on poultry production and management, nutrition and feeding, poultry genetics and breeding, poultry products technology and poultry disease control and health are available in the library.

2. Video cassettes covering on various aspects of poultry production and management were purchased and maintained for instructional purpose.
3. Prepared slides on various aspects of poultry production and marketing for instructional purpose.

09. Award and Recognition: Nil

2007-2008

International article

1. B. Anitha, M. Moorthy and K.Viswanathan, 2007. Performance of broilers fed with crude rice bran oil. *The Journal of Poultry Science*, 44: 283-290.

Indian Journal

1. R. Mathivanan, Sundaresan,K and Viswanathan, K 2007. Effect of system of management on egg production in commercial White Leghorn layers. *Indian Veterinary Journal* 84: 424-425.
2. B. Anitha, M. Moorthy, Viswanathan,K and Venukopalan,K 2007. Carcass characteristics of broiler fed with crude rice bran oil. *Indian Veterinary Journal* 84:635-636.
3. D. Kannan, Viswanathan,K and Mohan, B 2007. The effect of feeding Virginiamycin and *Lactobacillus sporogenes* on broiler production performance characters. *Tamil Nadu Journal of Veterinary and Animal Science*, 3: 106-108.
4. R.Mathivavan, Selvaraj,P and Nanjappan,K 2007. Effect of organic chromium on serum and egg cholesterol. *Indian Veterinary Journal*, 84: 748-749.
5. B. Anitha, Moorthy,M, Viswanathan,K and Ravi, R, 2007. Effect of crude rice bran oil in broiler diet. *Indian Veterinary Journal*, 84:748-749.
6. Binoj Chacko, Amutha, R, Edwin, S.C, Ramseh Saravanakumar, V, Venukopalan,K and Viswanathan, K, 2007. Effect of lysine and methionine balanced low protein in Japanese quail starter ration. *Indian Veterinary Journal*, 84: 769-770.
7. S.C.Edwin, Viswanathan, K, Mohan,B and M. R. Purushothaman, 2007. Egg production performance of Japanese quail fed with NSP hydrolyzing enzymes. *Indian Veterinary Journal*, 84:871-872.
8. P.Thirunavukkarasu, Moorthy M and Viswanathan,K. 2007. Return over feed cost from induced moulted hens. *Indian Veterinary Journal*, 84:884-885.

9. N. Vadivukkarasi, Edwin, S.C and Viswanathan, K, 2007. Effect of feed restriction in Japanese quail. *Indian Journal of Poultry Science*, 42:205-207.
10. S. Ezhilvalavan, Mohan, B, Edwin,S.C, Mani, K, Viswanathan, K, Kumaresan, A Sivakumar, K and Bharathidhasan, A, 2007. Effect of chitin and probiotic supplementation on blood and egg yolk cholesterol in commercial White Leghorn layers. *Indian Journal of Poultry Science*, 42: 144-147.
11. B. Anitha, Moorthy, M and Viswanathan, K 2007. Return over feed cost using crude rice bran oil in broilers. *Indian Journal of Poultry Science*, 42:157-160.

2008-2009

International articles

1. D. Kannan, Viswanathan, K, Edwin, S.C, Amutha, R and Ravi, R, 2008. Dietary inclusion of enzyme phytase in egg layer diet on retention of nutrients, serum biochemical characters and phosphorus excretion. *Research Journal of Agriculture and Biological Sciences*, 4: 273-277.

National articles

1. K. Rajendran, Mohan, B, Viswanathan, K and Edwin, S.C, 2008. A study on cost of production of broiler at market age at Palladam area. *Tamil Nadu Journal of Veterinary and Animal Sciences*, 4:69-70.
2. B. Anitha, Moorthy, M and Viswanathan, K, 2008. Effect of crude rice bran oil on muscle cholesterol and serum biochemistry in broilers. *Indian Journal of Poultry Science*, 43:110-112.
3. P. Thirunavukkarasu, Moorthy, M and Viswanathan, K, 2008. Albumen quality of eggs laid by induced moulted hens. *Indian Journal of Poultry Science*, 43: 120-122.
4. M. Moorthy and Viswanathan, K, 2008. Extracted coconut meal in White Leghorn layer diet. *Animal Nutrition and Feed Technology*, 8:227-236.
5. D. Kannan, Viswanathan, K and Edwin, S.C, 2008. Phytate phosphorus level in feed ingredients and enzyme phytase activity in commercial preparation. *Indian Veterinary Journal*, 85:51-52.
6. R. Mathivanan, Edwin, S.C and Viswanathan, K 2008. Effect of *Andrographis paniculata* supplementation on growth and feed conversion efficiency of broilers. *Indian Journal of Poultry Science*, 43:185-188.

7. R. Mathivanan, Edwin, S.C and Amutha, R 2008. Effect of dietary Panchagavya supplementation on growth and feed conversion efficiency of broilers. *Indian Journal of Poultry Science*, 43:189-192.
8. P. Shamsudeen, Selvan, S.T and Viswanathan, K, 2008. Effect of dietary supplementation of sodium and potassium on egg quality characteristics in layers. *Tamil Nadu Journal of Veterinary and Animal Sciences*, 4: 171-178.
9. M. Moorthy, Viswanathan, K and Selvaraj, P, 2009. Effect of extracted coconut meal diet in White Leghorn layers. *Indian Veterinary Journal*, 86:286-289.

2009-2010

International articles

1. M. Moorthy and Viswanathan, K, 2009. Nutritive value of extracted coconut (*Cocos nucifera*) meal. *Research Journal of Agriculture and Biological Sciences*, 5:515-517.
2. M. Moorthy, Saravanan, S, Megala, C Ravi, S, Ravikumar, M, Viswanathan, K and Edwin, S.C, 2009. Performance of single comb White Leghorn layers fed with *Aloe vera* and *Curcuma longa* (Turmeric) and probiotic. *International Journal of Poultry Science*, 8:775-778.
3. M. Moorthy, Ravi, S, Ravikumar, M, Viswanathan, K, and Edwin, S.C, 2009. Ginger, pepper and curry leaf powder as feed additives in broiler diet. *International Journal of Poultry Science*, 8:779-782.

National articles

1. P. Thirunavukkarasu, Moorthy, M, Viswanathan, K and Edwin, S.C, 2009. Egg production performance of induced moulted White Leghorn layers. *Tamil Nadu Journal of Veterinary and Animal Sciences*, 5:117-119.
2. B. Anitha, Moorthy, M and Viswanathan, K, 2009. Crude rice bran oil in broiler diet. *Tamil Nadu Journal of Veterinary and Animal Sciences*, 5:120-121.
3. R. R. Churchil, Shamsudeen, P, Veeramani, P, Mohan, B and Viswanathan, K, 2009. Deposition and Clearance of aflatoxin B1 in broiler chicken. *Indian Journal of Poultry Science*, 44:263-264.
4. C. Megala, Moorthy, M, Amutha, R and Ravi, R, 2009. Carcass characteristics of broilers fed diet with *Aloe vera* and *Curcuma longa*. *Indian Veterinary Journal*, 86:1257-1258.

2010-2011

National articles

1. M. Moorthy and Viswanathan, K, 2010. Digestibility and feeding value of coconut meal for White Leghorn layers. *Tamil Nadu Journal of Veterinary and Animal Sciences*, 6:196-203.
2. K. Rajendran and Edwin, S.C, 2010. Salinomycin toxicity in turkey - A case study. *Tamil Nadu Journal of Veterinary and Animal Sciences*, 6:298-299.
3. M. Moorthy, Edwin, S.C, Mani, K and Narmatha, N, 2011. Productive and reproductive performance of birds produced from commercial White Leghorn layers. *Indian Journal of Field Veterinarians*, 6: 47-49.

Training manuals

S.No.	Title	Training Period
1	Application of newer concepts in breeder flock and hatchery management	28.11.2007 to 18.12.2007
2	Alternate poultry production systems for socio-economic development	06.02.2008 to 26.02.2008
3	Strategies to overcome the emerging health and nutritional challenges in poultry production	12.11.2008 to 02.12.2008
4	Technological advances in value added poultry production	04.02.2009 to 24.02.2009
5	Capacity building for augmenting poultry production in the present global scenario	03.03.2010 to 23.03.2010
6	Challenges and constraints in poultry production and their mitigation	24.11.2010 to 14.12.2010

Other publication in regional language- (Tamil) for the benefit of the poultry farming community

i. Book : Egg recipe

ii. Booklets : 1. Vaccines and vaccinations in poultry
2. Turkey and Emu farming
3. Scientific processing of chicken
4. Summer management of layer chicken

iii. Pamphlets : 1. Nutritive value of egg
2. Egg preservation technology
3. Farm level egg preservation methods
4. Feeding of chicken during feed storage period
5. Egg products preparation
6. Research findings applicable to the farming community

Financial Statement

Expenditure under CAFT during XI plan

Head	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012 (upto September 2011)
Cost of personnel	2,46,303.00	3,28,350.00	3,83,534.00	3,22,760.00	-
Operating cost of the training	2,66,338.00	3,25,762.00	1,20,740.00	2,74,857.00	-
Recurring Contingency	1,99,821.00	1,99,995.00	1,50,030.00	1,41,967.00	29,968.00

Non recurring Contingency	-	2,42,790.00	-	-	-
TA	1,276.00	38,020.00	25,966.00	2,357.00	14,137.00
Library	43,122.00	8,359.00	3,971.00	22,846.00	-
Total	7,54,858.00	11,43,276.00	6,84,241.00	7,64,787.00	44,105.00

Sd/- Dr.S.C. Edwin
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