

Poultry Complex

College of Veterinary Science & A.H.

HISTORY

Poultry Complex was established as Central Poultry Research Station during the year 1964 under Institute of Agriculture. Scheme entitled “Poultry Training Centre” was started in year 1964, in which, three courses per year of ten weeks duration are being conducted. In the year 1978, project All India Coordinated Research Project (A.I.C.R.P.) on Poultry Breeding for eggs (ICAR) was started. The project entitled “Random Bred Control Population” was sanctioned by ICAR as adhoc project in year 1983-84 and was continued as University plan scheme from the year 1988. Post Graduate programme in Poultry Science discipline has been started at Poultry Complex from the year 2005.

I. RESEARCH

1. A.I.C.R.P. ON POULTRY BREEDING FOR EGGS (ICAR):

- This project was sanctioned by ICAR, New Delhi during Vth Five Year Plan as sub-centre of A.I.C.R.P. on Poultry at Anand and was entrusted with testing of various genotypes developed under public & private sectors of the country. During VIIth Five Year Plan, centre was upgraded into a full fledged pure line breeding centre by ICAR.
- The centre has completed prestigious programme of Reciprocal Recurrent Selection (RRS) in layer birds.
- Since 1994-95, centre is working with pure line breeding programme involving IWN & IWP strains of White Leghorn. Centre has concentrated on improvement of egg number & egg weight of these strains.
- High producing White Leghorn Strain-cross (IWN & IWP) “**Anand Commercial Layer**” is developed by the centre and it is released for the commercial egg production.

2. CENTRAL POULTRY RESEARCH STATION:

- Under this project, problems oriented time bound research programmes on various aspects of breeding, management and nutrition, that can be of directly or indirectly useful to poultry farmers are being conducted.
- A high egg weight line of poultry “**Anand Synthetic White Leghorn**” is developed and released



3. DEVELOPMENT AND MAINTENANCE OF DIFFERENT POPULATION OF

POULTRY:

- Evolved a random bred control population by crossing eight genetically divergent stocks from the country. This population has now been accepted as National Control Population by the ICAR.
- Developed and released “**Anand Bantamized White Leghorn**” birds with high feed conversion efficiency.

II. EXTENSION

1. POULTRY TRAINING CENTRE &

2. UPGRADING OF POULTRY TRAINING CENTRE

This centre provides necessary training to persons who are engaged in poultry farming or to those who are desirous to start poultry farming. Three courses of 10 weeks durations are being conducted every year as detailed below. Thus this center has been instrumental in providing self-employment in poultry business to many farmers and these courses also serve as refresher courses to those who are already in the poultry business.

Sr. No.	Detail	First Batch (Training in Commercial Poultry Farming)	Second Batch (Training in Commercial Poultry Farming)	Third Batch (Advance Training in Commercial Poultry Technology)
1.	Beginning of training	First Monday of July	First Monday of October	First Monday of January
2.	Period of application	1-20 June	1-20 September	1-20 December
3.	Qualification required	Minimum 7 th Std. pass	Minimum 7 th Std. pass	Minimum 9 th Std. Pass
4.	Age limit	16-50 years	16-50 years	16-50 years

3. POULTRY FEED MANUFACTURING UNIT:

1. Production & supply of balanced poultry rations for catering the need of various schemes of Poultry Complex, A.A.U., Anand, other Agricultural Universities of the State and needy farmers.
2. Computation of various types of balance poultry rations including least cost poultry feed formulation.
3. Imparting training to the students for preparing economically balanced poultry feeds.

III. EDUCATION

The centre is undertaking UnderGraduate teaching of students of Veterinary Science & Animal Husbandry as well as Post graduate teaching in Poultry Science discipline:

(A) U.G. Teaching:

Sr.No.	Name of Course	Course No.	Credits
1	Avian Production Management	LPM-211	1+1
2	Commercial Poultry Production and Hatchery Management	LPM-221	1+1
3	Internship Programme for students of Anand, S.K.Nagar & Navsari		Full Day

(B) P.G. Teaching:

SR. NO.	CODE	COURSE TITLE	CREDITS
1.	PSC 601	POULTRY BREEDING AND GENETICS	2+1
2.	PSC 602	POULTRY NUTRITION AND FEEDING	2+1
3.	PSC 603	COMMERCIAL LAYER PRODUCTION	2+1
4.	PSC 604	COMMERCIAL BROILER PRODUCTION	2+1
5.	PSC 605	BREEDER STOCK, FLOCK HEALTH AND HATCHERY MANAGEMENT	3+1
6.	PSC 606	MANAGEMENT OF POULTRY OTHER THAN CHICKEN	2+1
7.	PSC 607	POULTRY PRODUCTS TECHNOLOGY AND MARKETING	2+1
8.	PSC 608	POULTRY ECONOMICS, PROJECTS AND MARKETING	2+1
9.	PSC 609	PHYSIOLOGY OF POULTRY PRODUCTION	2+1
10.	PSC 691	MASTER'S SEMINAR	1+0
11.	PSC 699	MASTER'S RESEARCH	20
12.	PSC 701	APPLIED POULTRY NUTRITION	2+1
13.	PSC 702	CONCEPTS IN COMMERCIAL POULTRY PRODUCTION	2+1
14.	PSC 703	DEVELOPMENTS IN POULTRY PRODUCTS TECHNOLOGY	2+1
15.	PSC 704	EMERGING DISEASES OF POULTRY AND FLOCK HEALTH	2+1
16.	PSC 705	ADVANCED POULTRY BREEDING METHODS	2+1
17.	PSC 706	POULTRY ECONOMICS, MARKETING AND INTEGRATION	2+1
18.	PSC 791	DOCTORAL SEMINAR I	1+0
19.	PSC 792	DOCTORAL SEMINAR II	1+0
20.	PSC 799	DOCTORAL RESEARCH	45

IV. PROJECT COMPLETED

Sr. No.	Title	Agency
1	Development of Random Bred Control Population for Poultry for Eggs	ICAR adhoc scheme
2	Survey of Ankleshwar Poultry Breed (NBAGR – ICAR)	NBAGR – ICAR
3	Small Farm Rural Poultry Production	NATP (PSR Mode)
4	Utility of Bantamised White Leghorn line for improving feed efficiency of layer commercial hybrids	NATP (CGP Mode)
5	Utilization and feeding of ‘OO’ variety of Mustard cake v/s Conventional variety of Mustard cake in poultry	N.D.D.B.
6	Studies on genetic aspects of Plasma Very Low Density Lipoprotein (VLDL)	ICAR adhoc project
7	Tata Chemical Ltd Project on “Effect of Sodium bicarbonate (ALKAKARB) inclusion in layer and broiler rations”	Tata Chemical Ltd.




PRESENT INCUMBENCY :



Dr. F. P. Savaliya : Principal Scientist & Head
Dr. R. K. Mishra : Associate Research Scientist
Dr. A. B. Patel : Assistant Research Scientist
Dr.N. J. Bhagora : Assistant Professor
Dr.R.S.Parmar : Senior Res.Asstt.

NO. OF STUDENTS EARNED DEGREE:

Ph.D.: 1
M.V.Sc.: 15

MAJOR ACHIEVEMENTS

1	<p>Developed Random Bred Control Population for egg type chicken. This research work has been awarded with “Prof. J.P. Trivedi” award, sponsored by Shri Hari Om Ashram, Nadiad. This control population has been recognized as National Control Population for egg type chicken by Indian Council of Agriculture Research (ICAR), New Delhi.</p>	
2	<p>Characterized “Ankleshwar” poultry breed of Gujarat.</p> <p>Av. age at First Egg : 180 days</p> <p>Av. Annual Egg Production : 80 nos.</p> <p>Av. Egg Weight : 35 g</p> <p>Shell Color : Cream and brown</p>	
3	<p>Popularized Native crossbreds of Aseel, Kadaknath, Naked Neck and Frizzle with Rhode Island Red birds suitable for rural poultry farming.</p>	

4	Released “ Anand Commercial Layer ” which is high yielding White Leghorn poultry strain-cross (IWN X IWP). It has average annual egg production of 300 eggs with more than 52 g egg weight and excellent livability. It is released for commercial poultry farming.	
5	Released “ Anand Synthetic White Leghorn ” which is synthetic line developed for high egg weight. It has potential of laying on an average 280 eggs at 72 weeks of age with more than 50 g egg weight at and above 28 weeks of age. It is released for improving egg weight in other stocks.	
6	Released “ Anand Bantamised White Leghorn ” which is a breed developed for better feed efficiency. It consumes on an average 10 g less feed to produce one egg as compared to normal White Leghorn bird during 21-64 weeks of age. It has potential of laying on an average 302 eggs at 72 weeks of age with more than 50 g egg weight at and above 40 weeks of age.	