



CARI

Central Avian Research Institute

Izatnagar

Courses

1. Advances in Poultry Hatchery Management
2. Advances in Poultry Nutrition and Feed Technology
3. Advances in Poultry Processing and Products Technology
4. Artificial Insemination Technology for Poultry
5. Biotechnological Tools for Poultry Production
6. Breeding Strategies for Egg and Meat
7. Quail Production for Commercial Exploitation

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The Central Avian Research Institute (CARI), the premier Institute of poultry research in the country, was established on 2nd November, 1979 as a commodity Institute of the Indian Council of Agricultural Research (ICAR). It has a Main Campus at Izatnagar, Bareilly (Uttar Pradesh) and a Regional Centre at Bhubaneswar (Orissa). Its mandate speaks as to undertake basic, applied and adoptive research in all disciplines relating to production of diversified poultry; to develop post harvest technologies; to impart specialized training/post graduate education in Poultry Science (PSC) leading to Diploma (National Diploma in Poultry Husbandry-NDPH), Master's (MVSc) and Doctoral (PhD) degrees in PSC in collaboration with the Indian Veterinary Research Institute Deemed University (IVRIDU) Izatnagar; to transfer the proven technologies to the end users and to provide referral/consultancy services.

1. Advances in Poultry Hatchery Management

Training Programme

The course is designated to strengthen knowledge and skill of the participants involving in hatchery operation and management aspects of poultry production from developing countries.

Faculty

Highly educated and well experienced Scientists in Poultry Science and other allied disciplines of the Institute and invited speakers will constitute the faculty.

Course Coordinator: Dr H P Shrivastava, PS & Head, PGE&T

Duration : 3 weeks (02-22 January 2009)

Course fee : US \$ 2500

No. of trainees per course : 5 (maximum)

Boarding & Lodging: Institute's Trainees' Hostel cum Guest House @ US \$30 per day trainee in addition to course fee.

Eligibility : Graduate in Agriculture/Animal/Biology/ Veterinary Science with practical experience in poultry production. Proficiency in English language

Course Contents

- Recent developments in hatchery management
- Layout of modern hatchery
- Management of male and female breeders
- Nutrient needs for better fertility and hatchability
- Factors affecting fertility and hatchability
- in ovo feeding of nutrients and vaccination
- Major events in embryo development
- Hatchery operation
- Analyzing low hatchability
- Hatchery waste disposal
- Economics of hatchery plant
- Record keeping
- Visit to farm hatchery

2. Advances in Poultry Nutrition and Feed Technology

Training Programme

The course is designated to strengthen knowledge and skill of the participants involving in poultry nutrition and feed technology aspects of poultry production from developing countries.

Faculty

Highly educated and well experienced Scientists in Poultry Science and other allied disciplines of the Institute and invited speakers will constitute the faculty.

Course Coordinator: Dr H P Shrivastava, PS & Head, PGE&T

Duration : 3 weeks (03-23 February 2009)

Course fee : US \$ 2500

No. of trainees per course : 5 (maximum)

Boarding & Lodging: Institute's Trainees' Hostel cum Guest House @ US \$30 per day per trainee in addition to course fee

Eligibility : Graduate in Agriculture/Animal/Biology/ Veterinary Science with practical experience in poultry production. Proficiency in English language

Course Contents

- Nutrient needs for growth and production
- Possible interactions among nutrients
- Biotechnology leading to better digestibility
- Antinutrients/Toxicants and amelioration
- Feeding value/quality testing
- Feed additives and nutraceuticals
- Gut health and immunomodulation
- Nutrition of breeders
- *in ovo* feeding
- Juvenile nutrition
- Cost effective formulation
- Feed compounding
- Feed processing technology
- Visit to feed plant



3. Advances in Poultry Processing and Products Technology

Training Programme

The course is designated to strengthen knowledge and skill of the participants involving in poultry processing and products technology aspects of poultry production from developing countries.

Faculty

Highly educated and well experienced Scientists in Poultry Science and other allied disciplines of the Institute and invited speakers will constitute the faculty.

Course Coordinator: Dr H P Shrivastava
PS & Head, PGE&T

Duration : 3 weeks (03-23 March 2009)

Course fee : US \$ 2500

No. of trainees per course : 5 (maximum)

Boarding & Lodging: Institute's Trainees' Hostel cum Guest House @ \$ 30 per day per trainee in addition to course fee.

Eligibility : Graduate in Agriculture/Animal/Biology/Veterinary Science with practical experience in poultry production. Proficiency in English language

Course Contents

- National and global scenario in egg and poultry processing
- Egg processing technology
- Primary and further processing of poultry
- Egg and poultry meat quality evaluation
- Value- added poultry products
- Packaging of poultry products
- Microbiology of fresh and processed poultry products
- Residues of heavy metals/ pesticides in egg and meat
- Byproduct utilization
- Concept and application of hazard analysis and critical control points (HACCP) in egg and poultry processing.
- Visit to egg/meat processing plant



4. Artificial Insemination Technology for Poultry

Training Programme

The course is designated to strengthen knowledge and skill of the participants involving in artificial insemination technology aspect of poultry production from developing countries.

Faculty

Highly educated and well experienced Scientists in Poultry Science and other allied disciplines of the Institute and invited speakers will constitute the faculty.

Course Coordinator: Dr H P Shrivastava
PS & Head, PGE&T

Duration : 3 weeks (03-23 June 2009)

Course fee : US \$ 2500

No. of trainees per course : 5 (maximum)

Accommodation : Institute's Trainees' Hostel cum Guest House @ US \$30 per day per trainee in addition to course fee.

Eligibility : Graduate in Agriculture/Animal/Biology/ Veterinary Science with practical experience in poultry production. Proficiency in English language

Course Contents

- Comparative avian reproductive systems
- Spermatogenesis and sperm maturation
- Structure/function of avian spermatozoa
- Biochemical composition of semen
- Follicular growth and atresia
- Ovulation and oviposition
- Optimization of variables influencing male/female reproductive functioning
- Direct *in situ* exposures of different parts of male/female reproductive systems
- Methodology of avian semen collection
- Semen evaluation/dilution/preservation
- Artificial insemination protocol and testing of its success.



5. Biotechnological Tools for Poultry Production

Training Programme

The course is designed to strengthen knowledge and skill of the participants involving in biotechnological tools for poultry production from developing countries.

Faculty

Highly educated and well experienced Scientists in Poultry Science and other allied disciplines of the Institute and invited speakers will constitute the faculty.

Course Coordinator: Dr H P Shrivastava
PS & Head, PGE&T

Duration : 3 weeks (04-24 August 2009)

Course fee : US \$ 2500

No. of trainees per course : 5 (maximum)

Boarding & Lodging: Institute's Trainees' Hostel cum Guest House @ US \$30 per day per trainee in addition to course fee.

Eligibility : Graduate in Agriculture/Animal/Biology/ Veterinary Science with practical experience in poultry production. Proficiency in English language

Course Contents

- Merits of biotechnological tools
- Functional genomics
- Molecular techniques
- Marker assisted selection
- Production of recombinant cytokines
- Genetic characterization of poultry
- Breeding for increased disease resistance
- Gene silencing
- Development of immuno-competent stocks
- Proteomics
- Embryo culture and transgenesis

6. Breeding Strategies for Egg and Meat

Training Programme

The course is designed to strengthen knowledge and skill of the participants involving in breeding strategies for egg and meat aspects of poultry production from developing countries.

Faculty

Highly educated and well experienced Scientists in Poultry Science and other allied disciplines of the Institute and invited speakers will constitute the faculty.

Course Director : Dr M C Kataria
PS & Head, AG&B

Course Coordinator: Dr H P Shrivastava
PS & Head, PGE&T

Duration : 4 weeks (1-29 August 2009)

Course fee : US \$ 2000

No. of trainees per course : 10 (maximum)

Accommodation : At a very reasonable cost in the Institute's Trainees' Hostel cum Guest House

Eligibility : Graduate in Agriculture/Animal/Biology/ Veterinary Science with practical experience in poultry production. Proficiency in English language

Course Contents

- Relevance of poultry breeding research
- Important economic traits
- Selection methods and breeding programme
- Male and female breeder stock
- Artificial insemination techniques
- Incubation and hatchery operation
- Feeding and rearing systems
- Genotype-environment interactions
- Developed avian germplasm
- Record keeping
- Poultry health and biosecurity
- Cost return analysis
- Visit to broiler and layer farm

7.

Quail Production for Commercial Exploitation

Training Programme

The course is designed to strengthen knowledge and skill of the participants involving in quail production for exploitation aspect from developing countries.

Faculty

Highly educated and well experienced Scientists in Poultry Science and other allied disciplines of the Institute and invited speakers will constitute the faculty.

Course Director : Dr Raj Narayan
SS & Incharge, Quail Unit

Course Coordinator: Dr H P Shrivastava
PS & Head, PGE&T

Duration : 3 weeks (2-23 December 2009)

Course fee : US \$ 1500

No. of trainees per course : 10 (maximum)

Accommodation : At a very reasonable cost in the Institute's Trainees' Hostel cum Guest House

Eligibility : Graduate in Agriculture/Animal/Biology/ Veterinary Science with practical experience in poultry production. Proficiency in English language

Course Contents

- Scenario of quail farming
- Breeding programme
- Developed germplasm
- Artificial insemination technique
- Selection and care of hatching eggs
- Incubation and hatching
- Housing and management
- Nutrient needs and feeding
- Nutritive value of quail eggs and meat
- Value added egg and meat products
- Health and control measures
- Economics of quail farming
- Visit to quail farm