

DINABANDHU MAHAVIDYALAYA



Bongaon, North 24 Parganas, West Bengal, Pin-743235

E-mail ID : info@dinabandhumahavidyalaya.org

Website : www.dinabandhumahavidyalaya.org

NAAC ACCREDITED - 2016 (Second Cycle)

Affiliated to West Bengal State University & Formerly under University of Calcutta

Registered under 2(f) & 12(B) of U.G.C. Act 1956

ESTD : 1947

Ref.....

Date

Add on Course On POULTRY FARMING

By

Department of zoology

Dinabandhu Mahavidyalaya, Bongaon

Session: 2023-24

Objectives:

An add-on course on poultry farming typically aims to provide participants with specialized knowledge and skills beyond basic poultry farming. The specific objectives may vary depending on the course provider, target audience, and the depth of content covered. However, here are some common objectives you might find in such a course:

- **Advanced Husbandry Techniques:** Teach advanced techniques for managing and caring for poultry, including breeding, feeding, housing, and health management.
- **Disease Prevention and Control:** Educate participants on recognizing, preventing, and controlling common poultry diseases through vaccination, biosecurity measures, and appropriate treatment protocols.
- **Biosecurity Measures:** Train participants in implementing biosecurity protocols to prevent the spread of diseases and minimize the risk of outbreaks within poultry flocks.
- **Improved Breeding Practices:** Provide knowledge on selective breeding, genetic improvement, and breeding programs to enhance productivity, disease resistance, and other desirable traits in poultry.
- **Nutrition Optimization:** Offer insights into formulating balanced diets, nutritional requirements at different stages of poultry growth, and strategies for optimizing feed efficiency.
- **Management of Layers and Broilers:** Focus on specific management practices tailored to the production of eggs (layers) and meat (broilers), including housing systems, lighting schedules, and welfare considerations.
- **Egg Quality Enhancement:** Teach methods for improving egg quality, such as managing eggshell quality, reducing cracks, and maintaining optimal storage conditions.
- **Marketing and Business Strategies:** Provide guidance on marketing strategies, market analysis, and business planning specific to poultry farming, including understanding consumer preferences and trends.
- **Regulatory Compliance:** Familiarize participants with relevant regulations, standards, and certifications governing poultry farming, including animal welfare regulations and food safety standards.

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- **Environmental Sustainability:** Address environmental concerns associated with poultry farming, such as waste management, environmental impact mitigation, and sustainable farming practices.
- **Risk Management:** Equip participants with knowledge and tools to identify and mitigate risks associated with poultry farming operations, including financial risks, disease outbreaks, and market fluctuations.
- **Technology Adoption:** Introduce participants to modern technologies and innovations applicable to poultry farming, such as automated monitoring systems, precision nutrition, and genetic advancements.
- **Entrepreneurship Development:** Foster entrepreneurial skills and mindset among participants, encouraging innovation, problem-solving, and business growth in the poultry sector.
- **Continuing Education and Networking:** Provide opportunities for ongoing learning, networking, and collaboration within the poultry farming community through workshops, seminars, and industry events.

By fulfilling these objectives, an add-on course on poultry farming aims to empower participants with the knowledge, skills, and resources needed to succeed in the dynamic and challenging field of poultry production.

Importance of Poultry Farming

Incorporating poultry farming as an add-on course for college students can offer numerous benefits and opportunities for personal and professional development. Here are several reasons highlighting the importance of including poultry farming in college curricula:

- **Diversification of Skills:** Poultry farming adds diversity to students' skill sets, allowing them to acquire practical knowledge in animal husbandry, business management, and agricultural sciences. This diversification can enhance their employability and entrepreneurial potential in various sectors related to agriculture and animal production.
- **Hands-on Experience:** Practical experience gained through poultry farming courses provides students with hands-on learning opportunities, allowing them to apply theoretical concepts in real-world settings. This experiential learning fosters a deeper understanding of agricultural practices and cultivates essential skills in problem-solving, critical thinking, and decision-making.

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- **Entrepreneurship Development:** Poultry farming courses nurture entrepreneurial spirit among students by equipping them with the knowledge and skills needed to start and manage their own poultry enterprises. Through business planning, marketing strategies, and financial management training, students learn how to develop viable poultry farming ventures and contribute to rural development and economic growth.
- **Addressing Food Security:** Poultry farming plays a crucial role in addressing global food security challenges by providing a sustainable source of protein-rich food, such as eggs and poultry meat. By educating students about poultry production practices, breeding techniques, and nutrition management, colleges can contribute to building a skilled workforce capable of enhancing food production and meeting the nutritional needs of growing populations.
- **Environmental Sustainability:** Sustainable poultry farming practices taught in college courses emphasize environmental stewardship, animal welfare, and resource efficiency. Students learn about eco-friendly farming methods, waste management strategies, and alternative energy solutions, promoting environmentally responsible agriculture and mitigating negative impacts on ecosystems and natural resources.
- **Career Opportunities:** Poultry farming courses open up a wide range of career opportunities for students in various sectors, including agribusiness, animal science, veterinary medicine, food processing, research, and extension services. By gaining specialized knowledge in poultry production, students enhance their employability and career prospects in both domestic and international job markets.
- **Research and Innovation:** Colleges offering poultry farming courses contribute to research and innovation in the field of animal sciences and agricultural technologies. Students engage in research projects, experiments, and technology trials, exploring new methods for improving poultry health, productivity, and sustainability. This research-driven approach fosters scientific inquiry, innovation, and continuous improvement in poultry farming practices.
- **Community Engagement:** Poultry farming courses promote community engagement and outreach activities, fostering collaboration between colleges, local farmers, agricultural cooperatives, and rural communities. Students participate in extension programs, workshops, and knowledge-sharing initiatives, offering technical assistance, training, and support to small-scale poultry producers and rural enterprises.

Overall, incorporating poultry farming as an add-on course for college students is essential for equipping the next generation of agricultural professionals with the knowledge, skills, and values needed to address pressing global challenges, promote sustainable development, and contribute to the advancement of the poultry industry.

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Course Outcomes

Upon completion of an add-on course on poultry farming, students should ideally achieve a set of course outcomes that demonstrate their acquired knowledge, skills, and competencies in poultry production and management. These outcomes may vary depending on the specific course curriculum and objectives, but here are some typical course outcomes:

- **Comprehensive Understanding of Poultry Biology and Physiology:** Students should demonstrate a thorough understanding of the biological and physiological principles governing poultry growth, development, reproduction, and health.
- **Proficiency in Poultry Husbandry Techniques:** Students should be proficient in applying best practices for poultry management, including housing, feeding, breeding, vaccination, and disease prevention, ensuring optimal health and welfare of the flock.
- **Ability to Implement Biosecurity Measures:** Students should be able to develop and implement biosecurity protocols to minimize the risk of disease transmission and maintain a healthy and disease-free poultry flock.
- **Competence in Nutritional Management:** Students should possess knowledge and skills in formulating balanced diets, evaluating nutritional requirements, and optimizing feed efficiency to support the growth, productivity, and well-being of poultry.
- **Skills in Poultry Farm Management:** Students should demonstrate competence in various aspects of poultry farm management, including planning, budgeting, record-keeping, and decision-making, to ensure efficient and profitable poultry production operations.
- **Proficiency in Disease Diagnosis and Management:** Students should be able to recognize common poultry diseases, perform diagnostic tests, and implement appropriate disease management strategies, including treatment, prevention, and control measures.
- **Understanding of Regulatory Compliance and Animal Welfare Standards:** Students should be familiar with relevant regulations, standards, and guidelines governing poultry farming, including animal welfare regulations, food safety standards, and environmental regulations.
- **Entrepreneurial and Business Skills:** Students should possess entrepreneurial skills and business acumen necessary for starting, managing, and growing a successful poultry farming enterprise, including market analysis, business planning, and marketing strategies.
- **Critical Thinking and Problem-Solving Abilities:** Students should demonstrate the ability to analyze complex issues, identify problems, and propose effective solutions related to poultry production, management, and sustainability.



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- **Effective Communication and Teamwork Skills:** Students should be able to communicate effectively and collaborate with peers, industry professionals, and stakeholders in the poultry sector, demonstrating teamwork, leadership, and interpersonal skills.
- **Awareness of Sustainable Farming Practices:** Students should understand the importance of environmental sustainability and adopt sustainable farming practices aimed at reducing environmental impact, conserving natural resources, and promoting ecological balance.
- **Continued Learning and Professional Development:** Students should recognize the importance of lifelong learning and professional development, staying abreast of emerging trends, advancements, and innovations in the field of poultry farming.

By achieving these course outcomes, students will be well-prepared to pursue careers in various sectors of the poultry industry, contribute to the advancement of poultry production practices, and make positive contributions to food security, animal welfare, and sustainable agriculture.

General Information and Course structure

- Duration: 40 Hrs
- Mode: Offline
- Entry Qualification: Hons. And General students of Zoology
- Language: Bengali/ English
- Venue: Dinabandhu Mahavidyalaya, Bongaon
- Students per batch: 40
- Starting Date: 12.09.2023

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Course Curriculum (40hrs)

Unit I: Introduction	(4 hrs)
Current status of poultry farming.	
Challenges and opportunities	(8 hrs)
Unit II: Types of Poultry farming	
Different types of poultry	
Raising chicken in farm	(10 hrs)
Unit III: Management of poultry	
The layout of Poultry houses	
Housing, cleaning and space management	(8 hrs)
Unit IV: Feeding of Poultry	
Poultry feed classification and principles of feeding	
Feed additives and supplements	(6 hrs)
Unit V: Poultry Health management	
Poultry diseases and their management	(4hrs)
Unit VI – Practical Session	
• Identification of poultry birds	
• Poultry farm layout planning	
• Feed preparation for poultry birds	

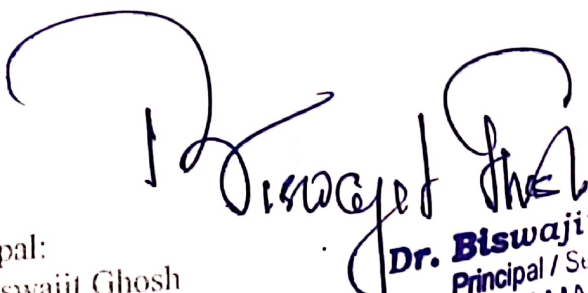
Principal:

Dr. Biswajit Ghosh

Course Co-ordinator:

Dr. Niladri Sekhar Das

Department of Zoology


Dr. Biswajit Ghosh
Principal / Secretary
DINABANDHU MAHAVIDYALAYA
Bongaon, 24Pgs(N)

Those who are interested may contact to the course coordinator for enrollment of their name.
Course Coordinator :