



# *The Hebrew University of Jerusalem*

## *Syllabus*

### **POULTRY MEDICINE - 65738**

*Last update 28-02-2025*

*HU Credits:* 3

*Degree/Cycle:* 2nd degree (Master)

*Responsible Department:* Veterinary Medicine

*Academic year:* 0

*Semester:* 2nd Semester

*Teaching Languages:* Hebrew

*Campus:* Rehovot

*Course/Module Coordinator:* Dr. Avishai Lublin

*Coordinator Email:* [avishailublin@yahoo.com](mailto:avishailublin@yahoo.com)

*Coordinator Office Hours:* By appointment

*Teaching Staff:*

---

Dr. Avishai Lublin,  
Dr. Inna Lysaynsky

Course/Module description:

Poultry products are a major source of animal proteins for the growing global human population. In Israel poultry consumption is one of the highest in the world and poultry production is a main agricultural industry. Good understanding of the veterinary and veterinary related aspects of poultry species is important for all Israeli veterinarians and not only for veterinarians who wish to pursue a career in poultry medicine. This course will provide a comprehensive overview of the important disease etiologies of poultry species and the prevention, diagnosis and control of poultry diseases. The course will provide a specific emphasis on the zoonotic and food safety aspects of poultry health and will address the emerging topic of animal welfare in poultry production.

Course/Module aims:

1. To learn basic knowledge in diagnosing poultry diseases, prevention, treatment and control - as a flock medicine.
2. To recognize the infectious diseases of poultry and their etiologies.
3. To analyze clinical conditions in the poultry pen: Contribution of the husbandry, and differential diagnosis.
4. To learn about the connections between poultry diseases and public health.

Learning outcomes - On successful completion of this module, students should be able to:

- Discuss the prevention means, diagnosis, and control of poultry diseases from a flock medicine perspective.
- Discuss the response of poultry species to infectious and non- infectious diseases.
- Review the infectious diseases of poultry.
- Provide the student with tools to analyze and respond to poultry disease situations.
- Provide the student with the required background and knowledge to be able to participate in public discussions and debates about poultry related issues.

Attendance requirements(%):

50

Teaching arrangement and method of instruction: lectures with presentations

Course/Module Content:

---

*The poultry industry in Israel*  
*An introduction to poultry medicine, a poultry veterinarian's approach to poultry diseases*  
*Viral diseases*  
*Avian Influenza, the outbreaks in Israel and the connection to global outbreaks, the risks to humans*  
*Newcastle and other paramyxoviruses*  
*Pneumovirus*  
*Infectious bronchitis*  
*Flaviviruses:*  
*Outbreaks of West Nile fever in Israel and the risks to humans*  
*Viral turkey meningoencephalitis*  
*USUTU VIRUS*  
*Reo virus and Tendon cross syndrome*  
*Adenoviruses*  
*Infectious Fabricius bursal disease*  
*Marek's disease*  
*Chicken infectious anemia*  
*Fowl pox*  
*Avian encephalomyelitis of chickens*  
*Laryngotracheitis*  
*Bacterial and fungal diseases*  
*Respiratory bacteria: Pasteurella multocida, Riemerella anatipestifer, Ornithobacterium, Avibacterium*  
*Poultry bacteria and public health - food poisoning:*  
*Salmonella*  
*Campylobacter*  
*Clostridium*  
*Poultry bacteria and public health-respiratory and other diseases:*  
*Chlamydia psittaci and the risks to humans*  
*Avian tuberculosis*  
*Erysipelas*  
*Mycoplasma*  
*Pathogenic fungi, mycotoxins*  
*Parasitic diseases*  
*Coccidiosis*  
*Internal and external parasites*  
*Intoxications in birds*  
*Course summary, examples of questions in the final exam*

**Required Reading:**

1. *Diseases of Poultry*, 14th edition. David E. Swayne (Editor-in-Chief), John Wiley &

---

*Sons, Inc, 2020*  
*(two volume set)*

*Additional Reading Material:*

- 2. Avian Diseases Manual, 7th Ed. 2013, American Association of Avian Pathologists, Editor M. Boulianne.*
- 3. Isolation and Identification of Avian Pathogens, 5th edition. Louise Dufour-Zavala et al., eds. American Association of Avian Pathologists. AAAP 2008.*
- 4. Avian Histopathology, 3rd Ed. 2008, Oscar J. Fletcher, Published by American association of avian pathologists.*
- 5. Color Atlas of Diseases and Disorders of the Domestic Fowl and Turkey, 1991, C. J. Randall, Published by Iowa State University Press/Ames*
- 6. Color Atlas of Avian histopathology, 1996, C. J. Randall, Published by Mosby-Wolfe.*

*Grading Scheme:*

*Written Exam % 100*

*Additional information:*

*The final grade is the final test grade at the end of the semester. a multiple-choice test of 25 questions. A passing score is 60.*