



# *The Hebrew University of Jerusalem*

## *Syllabus*

### **VETERINARY TOXICOLOGY - 65727**

*Last update 25-03-2025*

*HU Credits:* 2

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

*Responsible Department:* Veterinary Medicine

*Academic year:* 0

*Semester:* 2nd Semester

*Teaching Languages:* Hebrew

*Campus:* Rehovot

*Course/Module Coordinator:* Dr. Sigal Klainbart

*Coordinator Email:* [klainbart@gmail.com](mailto:klainbart@gmail.com)

*Coordinator Office Hours:* by email

*Teaching Staff:*

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Dr. Olga Cuneah,  
Dr. Sigal Klinbert,  
Dr. Nili Anglister,  
Dr. Dalia Berlin,  
Dr. Shani Scheinin

Course/Module description:

General Toxicology, Diagnosis, Treatment, Pesticides, Elements, Feed-Related Toxicoses, Ionophores, Mycotoxins, Plant Toxins, Other Small Animal Toxicoses

Course/Module aims:

To acquire both theoretical and practical knowledge on toxicants and toxicosis in animals (farm and pet animals and wildlife) in Israel, with emphasis on diagnosis. In addition to the effects of toxicants on animals, descriptions of their treatment, effects on the environment and human health (including food of animal origin) will be given.

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

Expedite diagnosis of toxicosis in Israel, particularly differential diagnosis from other causes of ill health. Material will be given for each toxicant on frequency of toxicosis in Israel, prognosis, difficulty in diagnosis, and what materials are required to send to the Toxicology laboratory.

Attendance requirements(%):

100

Teaching arrangement and method of instruction: Teaching is based on lectures and a weekly report and discussion of real cases occurring during the duration of the course.

Course/Module Content:

Data on all groups of poisons found all over the world, with emphasis on the more common and expected toxicoses in Israel.

Required Reading:

none

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### Additional Reading Material:

#### Books

*Small Animal Toxicology, Blackwell's Five-Minute Veterinary Consult, Wiley-Blackwell, 2011.*

*Veterinary Toxicology. Basic and Clinical Principles. Gupta, R.C. Academic Press, 2007.*

*Small Animal Toxicology. M.E. Peterson & P.A. Talcott. W.B. Saunders Co., 2005.*

*Clinical Veterinary Toxicology. K.H. Plumlee. Mosby, 2004.*

*Handbook of Poisoning in Dogs and Cats. A. Campbell & M. Chapman. Blackwell, 2000.*

*Small Animal Toxicology and Poisonings. R.F. Gfeller & S.P. Messonnier. Mosby, 1998.*

*Plant Poisonings and Mycotoxicoses of Livestock in Southern Africa. T.S. Kellerman et al. Oxford University Press, 2004.*

*Natural Toxicants in Feeds & Poisonous Plants. P.R. Cheeke, L.R. Shull. Avi, 1985.*

*Current Veterinary Therapy – various volumes contain useful updates, mainly on SA.*

#### Internet

*No specific veterinary toxicology URL, but are very many relevant sites, such as:-*

*Our (old) own website in English -*

*<http://www.vetseeng.moag.gov.il/VetServENG/Toxicology/Diagnosis/>*

*Our own website in Hebrew -*

*<http://www.vetserv.moag.gov.il/Vet/Yechidot/Machon/Hormonim/default.htm>*

*US Animal Poison Control Center - excellent, updated well*

*<http://aspcapro.org/poison>*

*Medline - searchable, not for all veterinary journals*

*<http://www.ncbi.nlm.nih.gov/PubMed/> -*

*Google Scholar – good for finding papers [http://scholar.google.co.il/scholar?q&eq;veterinary+toxicones&btnG&eq;&hl&eq;en&as\\_sdt&eq;1%2C5](http://scholar.google.co.il/scholar?q&eq;veterinary+toxicones&btnG&eq;&hl&eq;en&as_sdt&eq;1%2C5)*

*ToxNet - many places to search for specific topics <http://toxnet.nlm.nih.gov/>*

*Exttoxnet - their Pesticide Information Profiles are good*

*<http://exttoxnet.orst.edu/pips/ghindex.html>*

*Pesticide database – thorough for searches <http://www.pesticideinfo.org/>*

*Martindale's Veterinary Health Science Guide – very comprehensive for Vet. Science topics <http://www.martindalecenter.com/Vet.html>*

### Grading Scheme:

### Additional information: