


Veterinary Education and Curriculum Development: Mozambique

*OIE SEMINAR
ON
Veterinary Education in Southern Africa: matching supply & demand*



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Arusha, 2009

The Veterinary Faculty - EMU


Universidade Eduardo Mondlane

- Established in 1964
- Graduate: 485 students



The Veterinary Faculty - EMU


- **Student Population**
 - Total: 210
 - Female: 95
 - Male: 115
- **Lecturers:**
 - 42 full time lecturers
 - Female: 24
 - Male: 18
 - 10 part time lecturers



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The Veterinary Faculty - EMU

- **Technical-Administrative staff: (97)**
 - 26 administrative and library
 - 23 laboratories and clinic
 - 21 Farm
 - 27 auxiliary



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The Veterinary Faculty - EMU

- **Facilities:**
 - 8 ha campus
 - Teaching facilities for classes up to 30 students
 - Research labs (Ex: Molecular Biology; Food Microbiology)






The Veterinary Faculty - EMU

- **Facilities (Cont'd):**
 - Library with reading room for 50 people
 - Computer Lab for 25 people




The Veterinary Faculty - EMU

- **Facilities** (Cont'd):
 - Veterinary school hospital

The Veterinary Faculty - EMU

- **Facilities** (Cont'd):
 - Animal production facilities









The Veterinary Faculty - EMU


- **Departments** (4 academic, 1 non-academic)
 - Pre-Clinical
 - Para-Clinical
 - Clinical
 - Animal Production
 - IDU (Information and Documentation Unity)



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Undergraduate curriculum


- **Entry requirements:**
 - Standard 12 (sciences with Biology or equivalent)
- **Annual intake:**
 - Mean - 25 (but 2009 -50) students per academic year
- **Annual Graduation:**
 - Mean – 18 (last 15 years)



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Undergraduate Curriculum


- **Length of academic year:**
 - 32 weeks (16 weeks per semester) + July Practical activities
 - 1st semester: February – June
 - 2nd Semester: August- December
- **Curricular reviews:** 1976; 1980; 1985; 1992; 1995; 2003 and 2009.



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Study Plan 2003 Curriculum

- Two lecturing cycles (11 semesters: 4970 hours)
 - Basic Cycle:
 - 1st – 3rd year
 - 34 Subjects
 - 2 416 hours



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Fig. 1 - Study Plan (Basic cycle)


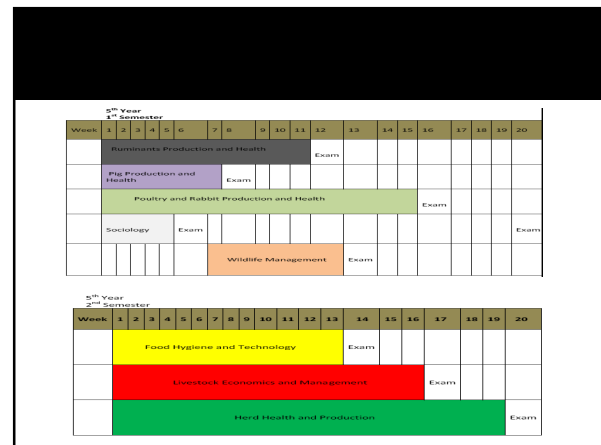
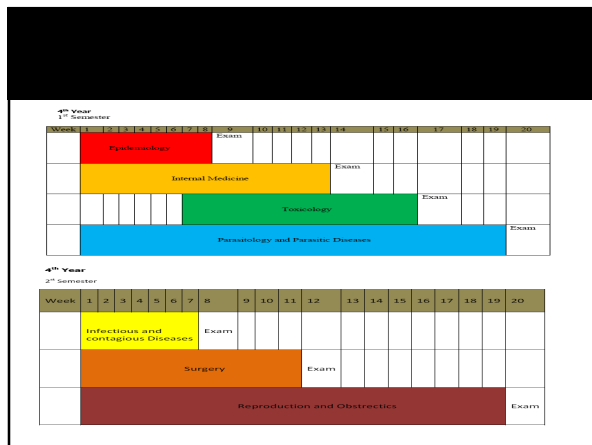
1 st Year - I Semester			1 st Year - II Semester		
Subject	S Week	S P	Subject	S Week	S P
Introduction to Veterinary Subjects	1	43	Genetics	1	43
Health I	2	43	Health II	2	43
Cellular Biology	3	43	Cytology and Embryology I	3	43
General and Organic Chemistry	4	43	Biochemistry I	4	43
Statistics	5	43	Cellology	5	43
English	6	43	Immunology	6	43
Total	35	400	Total	35	433

1 st Year - III Semester			1 st Year - IV Semester		
Subject	S Week	S P	Subject	S Week	S P
Comparative Anatomy	1	43	Genial Microbiology	1	43
Health III	2	43	Health IV	2	43
Cellular and Embryology II	3	43	Immunology	3	43
Biochemistry II	4	43	Genial Pathology	4	43
General Microbiology and Immunology	5	43	Immunology	5	43
Statistics	6	43	Pathology II	6	43
Total	35	432	Total	35	432

1 st Year - V Semester			1 st Year - VI Semester		
Subject	S Week	S P	Subject	S Week	S P
Animal Nutrition	1	43	Genes and Legislation	1	43
Comparative Genetics	2	43	Genetics	2	43
Pathology I	3	43	Pathology II	3	43
Statistics	4	43	Pathology III	4	43
Comparative Physiology and Biochemistry	5	43	Pathology IV	5	43
Statistics	6	43	Pathology V	6	43
Genial Microbiology	7	43	Parasitology	7	43
Total	35	382	Total	35	432


Study Plan 2003 Curriculum

- Clinic/Zootecnic cycle:
 - 4th – 5th year
 - 15 Subjects
 - 1 674 hours
 - Entry requirement: Conclusion of Basic Cycle

Study Plan 2003 Curriculum

- Project elaboration: 6 months – 400 hours
 - Clinical Placement
 - Research Project
 - Written dissertation and Viva
 - Can only present the dissertation after conclusion of all subjects



Study Plan 2003 Curriculum

- Other Curricular activities (July activities): 480 hours
 - Veterinary Nursery training – 21 days (1st year students)
 - Practical Activities in Farms: 21 days (2nd year students)
 - Aquaculture Course – 10 days (3rd year students)
 - Beekeeping Course – 10 days (3rd year students)
 - Meat and Fish Inspection – 21 days (4th year students)

GRADUATION IN VETERINARY MEDICINE

Quality assurance

■ Monitoring:

- Lecture evaluation by students
- Stakeholders evaluation of graduates
- Class attendance by other colleagues
- Lecturer Self evaluation
- Networking with Centre for Academic Development



Quality assurance

■ Others:

- Pedagogical training courses
- Promotion of post-grade studies
- Regular curriculum review
- Self Evaluation Report



2009 Curriculum Review (In Discussion)

- Two graduation cycles (10 semesters)
 - **First Cycle: 3 years – Licenciante in Animal Science**
 - **Second Cycle: 2 years – MV (Master in Veterinary:**
 - Three Differentiations:
 - Veterinary Medicine
 - Veterinary Public Health
 - Animal Production



Postgraduate programmes

- MSc programme in Veterinary Science to be launched in 2010

Areas:

- Veterinary Preventive Medicine
- Veterinary Public Health
- Biomedical Laboratory Diagnoses

With Cooperation of:

University of Pretoria
 Universidade Técnica de Lisboa
 Universidade de São Paulo
 Norwegian School of Veterinary Sciences

Continuing education courses

- Meat and Fish Inspection – Twice a Year
- Small Animal Clinics – once a year
- Others: On request (Ex: animal production and health for veterinary para-professionals and Farmers; Draught Animal Course)



Constraints

- Junior lecturing staff
- Lack of specialization due to a broad curricular definition
- Limited Practical training
- Weak Wildlife programme
- Insufficient budget
- Weak ITC facilities
- Transport availability



Recommendations

1. Seek funding to establish a communication platform to increase the dynamics between Faculties:
 - Deans
 - Curriculum Committee (to define and monitor)
 - i. Minimal requirements in terms of
 - Course Subject
 - Hours per subject
 - Contact Hours
 - Clinical cases per student
 - Etc.

Recommendations

- Curriculum Committee (Cont'd)
 - Basic facilities and equipment requirements
 - Admission Criteria
 - Recommended literature
 - Student assessment
 - Etc.
2. SADC Veterinary Faculties position in relation to "Bologna Declaration"

