


**UNIVERSITY OF NAIROBI**  
**FACULTY OF VETERINARY MEDICINE**  
**DEPARTMENT OF VETERINARY ANATOMY AND PHYSIOLOGY**  
**1<sup>st</sup> SEMESTER TEACHING TIMETABLE 2023/2024**  
**BACHELOR OF VETERINARY MEDICINE YEAR ONE**

**JVP 3103: LABORATORY TECHNIQUES & PRACTICE**

| WEEK | DATE       | DAY     | TIME                  | TOPIC  | LECTURER                           |
|------|------------|---------|-----------------------|--|------------------------------------|
| 1    | 10/10/2023 | Tuesday | 8:00 a.m. – 9:00 a.m. | <b>Public Holiday</b>  | ALL                                |
|      | 13/10/2023 | Friday  | 8:00 - 10:00 a.m.     | General Lab design: Ventilation, safeguards, drainage  | Dr. Towett                         |
| 2    | 17/10/2023 | Tuesday | 8:00 – 9:00 a.m.      | "  | "                                  |
|      | 20/10/2023 | Friday  | 8:00 - 10:00 a.m.     | <b>Public Holiday</b>  | ALL                                |
| 3    | 24/10/2023 | Tuesday | 8:00 – 9:00 a.m.      | Lab safety & maintenance: Periodic/routine maintenance   | Dr. Towett / Mr. Mugweru           |
|      | 27/10/2023 | Friday  | 8:00 - 10:00 a.m.     | Specialized Labs: Radioactive, diagnostic, tissue culture, molecular biology                                 | Prof. Kimwele/ Mr. Irungu          |
| 4    | 31/10/2023 | Tuesday | 8:00 – 9:00 a.m.      | Cleaning & storage of glassware, plastics<br>Personal protective equipment & safety: Warning signs & symbols | Dr. Kaluwa / Mr. Kwoba             |
|      | 03/11/2023 | Friday  | 8:00 - 10:00 a.m.     | Electrical & fire safety, safe use & storage of chemicals, biosafety equipment                               | "                                  |
| 5    | 07/11/2023 | Tuesday | 8:00 – 9:00 a.m.      | Lab waste management & disposal systems  | Dr. Wambugu / Mr. Tsuma            |
|      | 10/11/2023 | Friday  | 8:00-10:00 a.m.       | <b>CAT 1</b>   | <b>Drs. Kaluwa &amp; Ochwang'i</b> |
| 6    | 14/11/2023 | Tuesday | 8:00 – 9:00 a.m.      | Principle of weighing & measurements: Calibration, graduation. Standard solutions & buffers                  | Prof. Kimwele<br>Mr. Irungu        |
|      | 17/11/2023 | Friday  | 8:00 - 10:00 a.m.     | General lab techniques: pipetting, temperature, mass & volumes measurement                                   | "                                  |
| 7    | 21/11/2023 | Tuesday | 8:00 – 9:00 a.m.      | "  | "                                  |
|      | 24/11/2023 | Friday  | 8:00-10:00 a.m.       | Biochemical techniques – Chromatography, electrophoresis, Spectrophotometry                                  | Dr. Ochwang'i<br>Mr. Tsuma         |
| 8    | 28/11/2023 | Tuesday | 8:00 – 9:00 a.m.      | "  | "                                  |
|      | 01/12/2023 | Friday  | 8:00 -10:00 a.m.      | Physiological techniques – Spirometry, osmometry, flame photometry   | "                                  |
| 9    | 05/12/2023 | Tuesday | 8:00 – 9:00 a.m.      | "  | "                                  |
|      | 08/12/2023 | Friday  | 8:00 - 10:00 a.m.     | Quality assurance & quality control: SOPs, standard curves   | Dr. Nyongesa<br>Ms. Ngaywa         |
| 10   | 12/12/2023 | Tuesday | 8:00 - 9:00 a.m.      | "  |                                    |
|      | 15/12/2023 | Friday  | 8:00 - 10:00 a.m.     | <b>CAT 2</b>   | <b>Drs. Towett &amp; Wambugu</b>   |
| 11   | 16/01/2024 | Tuesday | 8:00 - 9:00 a.m.      | Sterilization methods: use & maintenance of ovens, fridges, freezers, water purification                     | Dr. Wambugu<br>Mr. Tsuma           |

|         |                           |                     |                   |   |                            |  |
|---------|---------------------------|---------------------|-------------------|---|----------------------------|--|
|         | 19/01/2024                | Friday              | 8:00 - 10:00 a.m. | <b>Lab animal science:</b> animal care, welfare & use.<br>Handling of laboratory animals,<br>Conduct of minor procedures: | Dr. Nyongesa<br>Ms. Ngaywa |  |
| 12      | 23/01/2024                | Tuesday             | 8 am - 9:00 a.m.  | blood collection, drug administration   | Dr. Wambugu / Mr. Tsuma    |  |
|         | 26/01/2024                | Friday              | 8:00 - 10:00 a.m. | Humane methods of killing experimental animals  | Dr. Wambugu<br>Mr. Tsuma   |  |
| 13      | 30/01/2024                | Tuesday             | 8:00 - 9:00 a.m.  | Euthanasia (species specific)   | Dr. Kaluwa                 |  |
|         | 02/02/2024                | Wednesday           | 8:00 - 10:00 a.m. | Euthanasia (species specific)   | "                          |  |
| 14 & 15 | 05/02/2024-<br>16/02/2024 | <b>EXAMINATIONS</b> |                   |   |                            |  |

Approved: .....

  
Ag. Chairman, Dept. of Veterinary Anatomy & Physiology

Date 11/09/2023.