

# **COMPETENCY BASED SKILLS TRAINING IN ANIMAL RESEARCH**

## **DAY 1 - ADMINISTRATION OF SUBSTANCES RAT, MOUSE**

- a) Non-invasive and invasive methods
- b) Choice of method
- c) Non - invasive methods:
  - i) Mixing with food and water
- d) Invasive methods
  - i) Handling and restraining
  - ii) Topical application
  - iii) Oral dosing
    - (1) Into the mouth
    - (2) Gavage
  - iv) Injection by needle
    - (1) Subcutaneous
    - (2) Intramuscular
    - (3) Intravenous
    - (4) Intraperitoneal
    - (5) Intradermal

## DAY 2 - WITHDRAWAL OF BODY FLUIDS IN MICE AND RAT

- a) Aseptic technique
- b) Analgesia and Anaesthesia
- c) Withdrawal of Body Fluids
  - i) Blood
    - (1) Superficial veins
      - (a) Tail vein
      - (b) Saphenous vein
      - (c) Sublingual vein
    - (2) Cardiac puncture
    - (3) Orbital venous sinus collection
  - ii) Urine