

# B.V.Sc. & A.H. Syllabus

**Duration:** 5.5 Years (5 Academic Years + 1-Year Compulsory Internship)

**Total Credits** (typical VCI): ~200–220 credits (theory + practical)

**Structure:** Divided into Professional Years (not strict semesters in VCI; universities may split into semesters). Heavy emphasis on practicals, clinics, and farm training.

## Professional Year 1 (First Year – Pre-Clinical Foundation)

- **Veterinary Anatomy** (Gross Anatomy: Osteology, Arthrology, Myology, Angiology, Neurology; Histology & Embryology)
- **Veterinary Physiology** (Blood & Body Fluids, Cardiovascular, Respiratory, Digestive, Excretory, Endocrine, Reproductive, Neuromuscular Systems)
- **Veterinary Biochemistry** (Biomolecules, Enzymes, Metabolism, Clinical Biochemistry)
- **Livestock Production Management – I** (General Principles, Ruminants, Poultry, Equine Management)
- **Animal Nutrition** (Principles of Nutrition, Feed Technology)
- **English / Communication Skills** (if applicable)
- **Practical:** Dissection, histology slides, physiological experiments

## Professional Year 2 (Second Year – Para-Clinical)

- **Veterinary Microbiology** (Bacteriology, Virology, Mycology, Immunology)
- **Veterinary Pathology** (General Pathology, Systemic Pathology, Necropsy)
- **Veterinary Parasitology** (Helminthology, Protozoology, Entomology)
- **Veterinary Pharmacology & Toxicology** (General Pharmacology, Chemotherapy, Toxicology)
- **Animal Genetics & Breeding** (Principles of Genetics, Population Genetics, Breeding Systems)
- **Livestock Production Management – II** (Swine, Sheep/Goat, Laboratory Animals)
- **Practical:** Microbiology lab, postmortem, parasitology slides, breeding records

## Professional Year 3 (Third Year – Para-Clinical & Production)

- **Veterinary Public Health & Epidemiology** (Zoonoses, Food Safety, Epidemiology)

- **Veterinary & Animal Husbandry Extension Education** (Extension Principles, Rural Sociology, Communication, Transfer of Technology)
- **Livestock Products Technology** (Milk & Meat Technology, Abattoir Practices, By-products)
- **Animal Nutrition – II** (Applied Nutrition, Ration Formulation)
- **Livestock Farm Complex** (Practical farm training – management, records)
- **Practical:** Milk/meat processing, extension fieldwork, epidemiological surveys

## **Professional Year 4 (Fourth Year – Clinical Subjects)**

- **Veterinary Medicine** (General Medicine, Systemic Diseases, Infectious/Non-Infectious Diseases)
- **Veterinary Surgery & Radiology** (General Surgery, Anaesthesiology, Orthopaedics, Radiology, Soft Tissue Surgery)
- **Veterinary Gynaecology & Obstetrics** (Reproductive Physiology, Infertility, Obstetrics, Andrology)
- **Veterinary Clinical Practices** (Diagnostic Techniques, Clinical Pathology)
- **VCI-Regulated Practical Training:** Veterinary Clinical Complex (medicine, surgery, gynaecology postings)

## **Professional Year 5 (Fifth Year – Advanced & Internship Preparation)**

- **Veterinary Preventive Medicine** (Preventive Strategies, Herd Health, Vaccination Programs)
- **Veterinary Epidemiology & Public Health** (Advanced)
- **Veterinary Jurisprudence & Ethics**
- **Livestock Economics & Marketing** (optional/allied)
- **Internship-Oriented Training** (Rotatory postings in clinics, farms, slaughterhouses)
- **Project / Seminar** (on clinical/production topic)

### **Compulsory Rotating Internship (1 Year – Post-Academic)**

- Rotatory training in:
  - Veterinary Hospitals / Clinics (Medicine, Surgery, Gynaecology)
  - Livestock Farms & Production Units
  - Slaughterhouses & Meat Inspection
  - Dairy/Poultry Farms
  - Veterinary Public Health & Extension
- Logbook, case reports, and viva required for completion.
- Minimum 100% attendance and satisfactory performance mandatory.

## **Common Structure Notes (2026)**

- **VCI MSVE Compliance:** Curriculum follows MSVE 2016 (with updates in clinical training emphasis). 50–60% practical/clinical component.
- **Pedagogy:** Lectures + labs + farm postings + clinical rotations + necropsy + extension camps.
- **Assessment:** Annual/professional exams (theory + practical/viva); internship evaluation separate.
- **Eligibility:** 10+2 PCB + NEET-UG qualification (as per VCI/AIU norms).
- **Career Path:** Veterinary practitioner, government veterinary officer, research scientist, livestock manager, academician, zoo/wildlife vet, etc.