

## Veterinary Anatomy, Histology and Embryology: Pioneer of Veterinary Science

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Veterinary Anatomy, Histology and Embryology covers a wide range of areas covering the study of structure of body through naked eye, using light and electron microscopes and study of pre-natal developmental stages in animals and birds. It is the pioneer subject of Veterinary Science as it forms and strengthens the base in the students to learn and absorb other subjects of this stream. Realizing its importance, the Veterinary Council of India (VCI) has placed this subject in the 1st Professional year of BVSc. and A.H. Programme.

It gives knowledge about the formation of the skeleton of the animals and birds (Osteology), major blood vessels and lymphatic vessels of the body (Angiology), major nerves innervating major area of the body (Neurology), topography of various visceral organs and also their internal positions inside the body (Splanchnology). Besides this, it also includes the microscopic architecture of various major organs of the body (Histology), which would help in differentiating the pathological conditions through light microscopic study. It helps us to study the development of animals and birds starting from gametogenesis to parturition (Embryology) which would help in diagnosing various teratological defects during the fetal lives.

Various major fields of the Veterinary Science such as Surgery and Radiology and Clinical Medicine are dependent on Veterinary Anatomy as one cannot perform major operations, interpret radiographic images and carry out the clinical topographic study. The major contribution of Veterinary Anatomy is its role in solving forensic and vetero-legal cases as the pieces of bones and various biological samples can be identified with respect to their species.

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