



*Ambegaon Taluka Vidya Vikas Mandal's*  
**B. D. KALE MAHAVIDYALAYA, GHODEGAON**  
**DEPARTMENT OF ZOOLOGY**  
**F.Y.B.Sc. COURSE OUTCOME NEP 2020**

**Semester- I**

**COURSE TITLE: ZOO:101 (T): GENETICS AND MEDICAL ZOOLOGY**

Course Outcome
<ol style="list-style-type: none"><li>1: Apply Mendelian genetic principles to predict outcomes of genetic crosses, interpret pedigrees and understand the basics of genetic inheritance.</li><li>2: Recognize and explain the inheritance patterns and molecular basis of common genetic disorders, including both Mendelian and complex traits.</li><li>3: Understand the concept of non - Mendelian genetics.</li><li>4: Concept and characteristics of multiple alleles, ABO blood group system, Inheritance of Rh antigen, Erythroblastosis foetalis and their medicolegal importance.</li><li>5: Understand the structure of chromosomes, chromatin and its types, giant chromosomes and chromosomal aberrations.</li><li>6: Successfully solve genetic problems using Punnett squares, probability calculations and pedigree analysis.</li><li>7: Understand basic concepts of medical zoology.</li><li>8: Understand different epidemic, vector borne and microbial diseases in humans.</li></ol>



**SEMESTER- II**

**COURSE TITLE: ZOO - 151 (T): CELL BIOLOGY AND BIOMEDICAL TECHNIQUES**

Course Outcome
<ol style="list-style-type: none"><li>1. Demonstrate the knowledge of cell diversity.</li><li>2. Explain the cell membrane, cell – cell interactions and its dynamics.</li><li>3. Understand nuclear structure and cell organelles.</li><li>4. Explain mitochondria and its functions.</li><li>5. Understand cytoskeleton and its functions.</li><li>6. Understand safety protocols, ethical standards, professional conduct and best practices.</li><li>7. Know about the biomedical instruments, their functioning and principle of operation.</li><li>8. Apply immunological techniques for the detection of antigens, antibodies, and immune responses in disease diagnosis.</li><li>9. Understand and perform hematological tests and diagnose common hematological disorders and interpret urine analysis data.</li></ol>