

FOURTH SEMESTER B.Sc. ZOOLOGY COMPLEMENTARY COURSE

Theory Course- IV

GENETICS AND IMMUNOLOGY

Code: ZOL4C04T

[54 hrs] [3 hours/week] [2 credits]

COURSE OUTCOMES [COs]

COs	Course Outcome statements
CO1	Describe human karyotype , chromosomal anomalies and polygenic inheritance (6 hrs)
CO2	Explain the mechanisms of sex determination (4 hrs)
CO3	Enumerate the concept of genes, gene expression, genetic code, transcription and translation (8 hrs)
CO4	Illustrate the mechanism of recombinant DNA technology and its practical applications (13 hrs)
CO5	Explain the types of cancer, causes of transformation and characteristics of transformed cells (5 hrs)
CO6	Identify the cells and organs of immune system, antigens and antibodies (7 hrs)
CO7	Enumerate antigen-antibody interaction, generation of B-cell and T-cell response and major immunotechniques (7 hrs)
CO8	Explain primary and secondary immunodeficiency diseases, autoimmune diseases, vaccination and vaccines (4 hrs)