

SARDAR PATEL UNIVERSITY
Programme: BSC (ZOOLOGY)
Semester: IV
Syllabus with effect from: November 2012

Paper Code: US04EZ001	Total Credit: 2
Title Of Paper: Chordates, Physiology, Immunology & Ecology	

Unit	Description in detail	Weighting (%)
1	Type Study of Shark (Excluding Endoskeleton Arterial system & Venous system)	
2	Human Reproduction: Human male & Female reproductive organs Spermatogenesis Oogenesis Puberty Menstrual Cycle Fertilization and development	
3	Immunology : Fundamental concepts, Innate & Cognate immunity, non specific immune response. Cells of immune system - structure & functions. Structure & functions of antibody Classes & subclasses Organization & structure of lymphoid organs	
4	Ecology & Environmental biology: Ecosystem, Structural components of an ecosystem, Abiotic factors (Brief) Temperature as abiotic factor detail (Temp. range, thermal stratification, temp. tolerance, cold blooded and warm blooded animals, Effects of temp. on animals, Adaptations to meet extreme of temp.	

Basic Text & Reference Books:

- Chordate zoology - R.L. Kotpal
- Chordate zoology - H.C. Nigam
- Chordate zoology - Jordan & Verma
- Textbook of physiology - A.K. berry
- Textbook of physiology - vermal Aggrawal Tyagi
- Immunology by Qube
- Animals ecology - M.P.Arora
- Ecology - Verma, Agarwal
- Ecology - P.D.Sharma

