DEPARTMENT OF STUDIES IN ZOOLOGY

VIJAYANAGARA SRI KRISHNADEVARYA UNIVERSITY, BALLARI

PG COURSE OUTCOMES AND CARRER

NAME OF THE COURSE	YEAR OF INTRODUCTION	COURSE OUTCOMES AND CARRER
Molecular cell biology	2016	• To understand the chemical and molecular processes that occurs in and between cells and will be able to describe and explain processes and their meaning for the characteristics of living organisms. • To understand and apply the principles and techniques of molecular biology which prepares students for further education and/or employment in teaching, basic research or the health professions. • Gain insight into the most significant molecular and cell-based methods used today to expand our understanding of biology. • Students will gain insight into the most significant molecular and cell-based methods used today to expand our understanding of biology. • Students will be able to effectively communicate the results of a scientific investigation in an audience appropriate manner in both an oral and written format. • To understand safe laboratory practices and perform basic molecular biology techniques. • **Career:** Scientist, Academics, Research, R & D Companies, clinical/institutional labs

Aquatic biology	2016	• To undertake studies relating to aquatic biology in both laboratory and field contexts. • To understand the dynamics of aquatic ecosystems and their potential responses to changes. • **Career:** Government agency roles, Research scientist, Biologist, Ecologist, Nature conservation officer
Wildlife biology and conservation		• Career: wildlife officer, conservation officer, wildlife manager, park ranger, project officer, environmental consultant, research scientist, conservation biologist
biology of reproduction		• To understand the biological processes of reproduction, including the endocrinology and physiology of male and female reproduction, puberty, lactation and menopause. • To understand the fertility and infertility and how reproductive biotechnology is used to overcome poor fertility. • To understand how reproductive biology impacts other aspects of health, exploring implications of early life exposures for later health and biology of reproductive cancers. • To understand the hormonal, tissue and behavioural changes that occur across the menstrual cycle and explain how these are regulated. • To understand the process the sexual differentiation and explain the some of the disorders that occur in the process. • To understand sexually transmitted diseases may contribute to altered neonatal or reproductive function. • Explain of how to apply reproductive information to strategies for the management of reproduction and fertility in animals.

		• **Career:**Reproductive toxicologist(Pre-clinical toxicologist), Animal researcher, animal breeders, medical scientist, Teaching professional, Industries
Environmental		Industry, R &D, Social development, Environmental journalism, Environmental modeling, Teaching/Research
Biology		Environmentalist, jobs in KSPCB, CPCB
Applied zoology		• To understand the concept of fisheries, fishing tools and site selection, aqua culture system, induced breeding techniques, • To understand the basic lifecycle of honeybee and to manage bee hives for honey production, harvest and marketing and pollination. • To understand the silkworm rearing, mulberry cultivation, pests, and diseases associated with silkworm, mulberry and various process involved in silk production. • **Career:** Diary scientist, dairy medical officer, Researcher, Scientist, Fisheries inspector, Central silk board, Nabard
Biodiversity		• To understand the concept of biodiversity conservation and maintenance of ecological imbalances. • To study the importance of plants and animals and their interrelationship with the surrounding environment. • **Career:** Environmentalist, National park rangers, animal breeding

Chairman
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