

## **Course Outcome:**

### **B.Sc. III sem C-380**

#### **Developmental Biology, Biochemistry, Physiology, Endocrinology&Immunology**

**After the completion of this course, student will able to understand the following concepts:**

- CO1** Basic concepts in Gametogenesis
- CO2** Concepts and terms in embryology
- CO3** These topics are much needed to understand working of life at molecular level.
- CO4** Classify the vitamins according to whether they are fat soluble or water soluble.
- CO5** About GIT & its accessory glands and their secretion.
- CO6** The alveolar pressure, air flow & lung volume exchange.
- CO7** Structure & function of human heart.
- CO8** The position & structure of kidney and nephron.
- CO9** The types of muscle proteins & their structure.
- CO10** Learn structure of a neuromuscular junction, and explain how an action potential is transmitted across  
the junction.
- CO11** Hormones
- CO12.** The antigen & antibodies.

### **B.Sc. IV**

#### **Cell Biology, Histology & Animal behavior**

**After the completion of this course, student will able to understand the following concepts:**

- CO1** The composition, structure and function of cell organelles
- CO2** Sources and energy utilization inside the cell.
- CO3** The cellular components underlying mitotic cell division.

- CO4** Receptor subclasses and their possible uses in cell signalling.
- CO5** The purpose of dynamic histology is to examine tissue structures at the microscopic level in order to understand their physiological and anatomical functions.
- CO6** Histopathology.
- CO7** Cell staining technique
- CO8** Animal's behavior.

### **B.Sc. V sem Paper-I E-460**

#### **Ecology Evolution Origin of Life & Palaeontology**

**After the completion of this course, student will able to understand the following concepts:**

- CO1** Existence in the world is made up of living and nonliving things & their interactions.
- CO2** The oceans are the significant source of oxygen for our planet
- CO3** The Marine species
- CO4** Biogeochemical cycles
- CO5** Theories of organic evolution.
- CO6** Principles of evolution from the perspective of horse and humans over the years.
- CO7** Knowledge of wildlife and conservation methods.
- CO8** Different fossils and their mode of formation etc.
- CO9** The geological time scale.

### **Paper-II E-470**

#### **Genetics, Genetic Code and Protein Biosynthesis, Biotechnology & Biostatistics**

**After the completion of this course, student will able to understand the following concepts:**

- CO1.** Syndromes can be eliminated from amniocentesis.

- CO2** Human genetics-inborn errors of metabolism
- CO3** The expression of DNA code through protein synthesis which directs life's activities.
- CO4** The genetic code is a three-letter nucleotide code.
- CO5** Importance of genetic engineering.
- CO6** The natural function of restriction endonucleases
- CO7** While the study of biology focuses on living organisms, statistical analyses provide crucial insight into many biological processes.

### **B.Sc. VI sem Paper-I E-460**

#### **Applied Zoology**

**After the completion of this course, student will able to understand the following concepts:**

- CO1** Knowledge regarding the ethical economic, legal and Political Aspects of animal rearing and husbandry.
- CO2** Application oriented knowledge of Sericulture, Vermiculture poultry and animal husbandry.
- CO3** Pearl producing molluscs, Pearl formation and composition of Pearl.
- CO4** Pearl Industry: Artificial Insertion of nucleus
- CO4** Apiculture.
- CO5** Natural control of insect pests & reschedule farming activities
- CO6** Economic importance of Lac.

### **Paper-II E-470**

#### **Microbiology Nanotechnology Bioinformatics Methods in Biology**

**After the completion of this course, student will able to understand the following concepts:**

- CO1** Use different microscopes and their importance.

- CO2** About bacteria, virus & fungi.
- CO3** Production of antibiotics.
- CO4** The importance on Nanotechnology
- CO5** The basic principles and concepts of biology, computer science and mathematics.
- CO6** The Basics involving gel-based proteomics.
- CO7** The Basic concepts of mass spectrometry.
- CO8.** The main applications and advantages of each of the main types of blotting techniques.
- CO9** Appropriate radiation protection while performing radiologic procedures on children and adults