**COURSE OUTCOME OF PAPER-1LI COURSE OUTCOMES**

**B.Sc - Zoology Ist year**

**Semester- I**

**Subject- Life & Diversity Of Protozoa To Porifera And Cell Biology- (Theory+Practical)**

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| **CO 1** | : Describe the general character, classification, biodiversity and economic importance of protozoa and porifera. |
| **CO 2** | understand the type study of *plasmodium* and *sycon* |
| **CO 3** | Illustrate the life history, mode of infection and pathogenecity of protozoans. |
| **CO 4** | Understand the canal system and spicules in sponges. |
| **CO 5** | Study the structure and functions of plasma membrane |
| **CO 6** | Examine the ultra structure of nucleus, Golgi apparatus , ER, Mitochondria , lysosomes , ribosomes. |
| **CO 7** | Describe the cytoskeleton: microtubules, microfilaments, centriole and basal body. |

**Subject- Life & Diversity Of Annelida To Arthropoda And Genetics-1- (Theory+Practical)**

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| **CO 1** | Describe the general character, classification, biodiversity and economic importance of annelida and artropoda. |
| **CO 2** | understand the type study of *Pheretima* and grasshopper. |
| **CO 3** | Illustrate the metamerism and trochophore larva in annelids |
| **CO 4** | Understand the Genetic Inheritance, Mendelism, Laws of segregation and Independent Assortment. |
| **CO 5** | Describe the process of Linkage and its Analysis, Allelic and non-allelic interactions |
| **CO 6** | Illustrate the mechanism of crossingover |
| **CO 7** | Understand the mechanism of sex determination and sex linked inheritance |
| **CO 8** | Study the extra chromosomal and cytoplasmic inheritance: kappa particle in *paramicium*, shell coiling in snails, milk factor in mice |

**CREDITS**- 3 **THEORY PERIODS OF EACH PAPER OF 45 MINUTES EACH PER WEEK OVER A SEMESTER**

**6 PRACTICAL PERIODS OF 45 MINUTES EACH PER WEEK OVER A SEMESTER**

**B.Sc - Zoology Ist year**

**Semester- II**

**Subject- Life And Diversity Of Colenterata To Helminthes And Genetics (Theory + Practical)**

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| **CO 1** | Describe the general character, classification, biodiversity and economic importance of colenterata and helminthes. |
| **CO 2** | Detailed type study of *obelia* and *fasciola hepatica* |
| **CO 3** | Understand coral and coral-reef &polymorphism in siphonophores |
| **CO 4** | describe Helminthes parasite |
| **CO 5** | Illustrate the ultra structure and function of nucleus. |
| **CO 6** | Examine the mitosis and meosis. |
| **CO 7** | An elementary idea of cellular basis of immunity and causes of cancer. |

**Subject- Life And Diversity Of Mollusca To Hemichordata And Genetics – I (Theory + Practical)**

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| **CO 1** | Describe the general character, classification, biodiversity and economic importance of Mollusca , Echinodermata and Hemichordata. |
| **CO 2** | Describe the type study of *Pila* and *Asteries* |
| **CO 3** | understand the torsion and Detorsion in Gastropoda. |
| **CO 4** | study of Echinoderm larva and Aristotle Lantern. |
| **CO 5** | understand the multiple Allelism and Human genetics |
| **CO 6** | Describe Inborn-Error of metabolism in man &nature and function of genetic material |
| **CO 7** | Illustrate mutation and applied genetics. |

**CREDITS**- 3 **THEORY PERIODS OF EACH PAPER OF 45 MINUTES EACH PER WEEK OVER A SEMESTER**

**6 PRACTICAL PERIODS OF 45 MINUTES EACH PER WEEK OVER A SEMESTER**