

**GOVT PG COLLEGE , AMBALA CANTT**

**DEPARTMENT OF ZOOLOGY**

**WEEK WISE LESSON PLAN, Even Semester 2020**

Name of the Assistant Professor:

Class and Section: **B. Sc. MEDICAL, 2<sup>nd</sup> Semester, Subject ZOOLOGY**

**Week wise Lesson Plan for the month Jan, 2020**

<b>Weeks</b>	<b>Topics</b>
<b>Week 1</b>	Phylum – Annelida : i) General characters and classification up to order level ii) Biodiversity and economic importance of Annelida iii) Type study – Pheretima (Earthworm)
<b>Week 2</b>	vi) Metamerism in Ann v) Trochophore larva 2. Phylum – Arthropoda : i) General characters and classification up to order level ii) Biodiversity and economic importance of insects vi) Type study – Grasshopper
<b>Week 3</b>	3. Elements of Heredity and variations. 4. The varieties of gene interactions 5. Linkage and recombination :
<b>Week 4</b>	Coupling and repulsion hypothesis, crossing-over and chiasma formation; gene mapping. 6. Sex determination and its mechanism :
<b>Week 5</b>	male and female heterozygous systems, genetic balance system; role of Y-chromosome, male haploidy, cytoplasmic and environmental factors, role of hormones in sex determination.

**Week wise Lesson Plan for the month Feb,2020**

<b>Week</b>	<b>Topics</b>
<b>1</b>	7. Sex linked inheritance : Haemophilia and colour blindness in man, eye colour in Drosophila, Non-disjunction of sex-chromosome in Drosophila; Sex-linked and sex-influenced inheritance 8. Extra chromosomal and cytoplasmic inheritance: i) Kappa particles in Paramecium ii) Shell coiling in snails. iii) Milk factor in mice.
<b>2</b>	1. Phylum - Mollusca: i) General characters and classification up to order level ii) Biodiversity and economic importance iii) Type study of - Pila iv) Torsion and detorsion in gastropoda v) Respiration and foot
<b>3</b>	2. Phylum – Echinodermata : i) General characters and classification up to order level ii) Biodiversity and economic importance vii) Type study – Asterias (Sea Star) viii) Echinoderm larvae ix) Aristotle's Lantern transgenic animals
<b>4</b>	3. Phylum Hemichordate : General Character; Type Study of Ballangosus counseling, pre-natal diagnostics, DNA-finger printing,
<b>5</b>	3. Multiple allelism : Eye colour in Drosophila; A, B, O blood group in man. 4. Human genetics : Human karyotype, Chromosomal abnormalities involving autosomes and sex chromosomes, monozygotic and dizygotic twins.