Lesson Plan (Zoology)
SEC- I Vermicomposting

Teacher: **Ramesh Soni**

Month	Dates	Topic to be taught
August	4-9	**Introduction to Vermiculture** – Definition, scope, history, importance in agriculture & environment
	11-16	**General Characters of Annelida** – segmentation, coelom, locomotion, reproduction, adaptations.
	18-23	**Systematic Position of Earthworm** – taxonomy, classification of earthworms.
	25-30	**Habits & Habitat of Earthworms** – ecological role, feeding behavior, nocturnal nature, soil preference
September	1-6	**Diversity of Earthworms** – global & Indian species; composting vs burrowing species.
	8-13	**Collection & Preservation of Earthworms** – field methods, laboratory preservation techniques
	15-20	**Vermitechnology: Role of Earthworms** – soil structure maintenance, 4Rs (reduce, reuse, recycle, restore).
	22-27	**Choosing the Right Species** – criteria for selecting composting earthworms (*Eisenia fetida*, *Lampito mauritii*, *Perionyx excavatus*).
October	28-4th Oct.	**Earthworm Biology** – morphology, anatomy, reproductive biology, key to identification of species.
	6-11	**Life Cycle of *Eisenia fetida* and *Lampito mauritii*** – growth, maturation, breeding, ecological importance.
	13-18	**Vermicomposting Methods** – vermibed preparation, small-scale (home) vs large-scale (commercial) composting
	20-25	**Vermicompost & Vermiwash** – properties, nutrient value, applications on crop plants, role in sustainable agriculture
November	27-1st Nov.	**Economic Development & Self-employment** – commercialization of vermiculture, case studies, revision & student discussions.
	3-8	Revision