

ADD ON COURSE IN ORGANIC COMPOSTING

ADD ON CODE- SSCADP18
Dept. of Zoology & Zoological Society of Kerala
(Syllabus)

UNIT 1

4 HRS.

- Introduction, Ecological classification of earth worms. Species of earth worms used for vermiculture, Reproduction & life cycle, Role of earth worm in solid waste management, in agriculture, in medicine etc.

UNIT 2

4 HRS.

- Key to identify the species of earthworms.
- Biology of *Eisenia fetida*.
- Taxonomy Anatomy, physiology and reproduction of Lumbricidae.
- Biology of *Eudrilus eugeniae*.
- Taxonomy Anatomy, physiology and reproduction of Eudrilidae.

UNIT 3

4 HRS.

- Vermicomposting
- Preparation of vermibed, Maintenance & monitoring, Preparation of vermicompost
- Nutritional Composition of Vermicompost for plants, comparison with other fertilizers
- Vermiwash collection, composition & use
- Enemies of Earthworms, Sickness and worm's enemies.
- Frequent problems. How to prevent and fix them.
- Complementary activities of auto evaluation.

UNIT 4

8 HRS

- Biogas
- History of Biogas production
- Characteristics of Biogas
- Biogas production & anerobic digestion
- Potentials of Biogas
- Benefits of Biogas
- **TRAINING SESSIONS**

UNIT 5

5 HRS

- Setting of Vermicomposting Unit

UNIT 6

5 HRS

- Biogas Production Plant
- Maintenance of Biogas plant