



# **TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR WOMEN, MEDAK**

**AFFILIATED TO OSMANIA UNIVERSITY, HYDERABAD**  
**NEAR INDIRA GANDHI STADIUM, YTC BUILDING, MEDAK**  
**Website: [Telangana Tribal Welfare Residential Degree College](http://telangana.tribalwelfare.residentialdegreecollege.edu.in)**  
**([twrcs.ac.in](http://twrcs.ac.in))**



**Syllabus for Certificate Course- B.Sc BZC Students AY-2021 to 2022**  
**Course Duration: 30 days (1 hour per day)**

## **PAPER: VERMICULTURE**

### **UNIT – I**

Vermitechnology-Definition, history, growth and development in other countries & India, Significance.

### **UNIT – II**

Vermiculture–definition, scope and importance; common species for culture; Environmental parameters; culture methods–wormery–breeding techniques ;in door and outdoor cultures- monoculture and polyculture – merits and demerits.

### **UNIT – III**

Vermi composting of wastes in field pits, ground heaps, tank method, roof shed method, static pile windrows, top fed windrows, wedges & bin method, harvesting the compost, storage, Vermiwash – Preparation and application.

### **UNIT – IV**

Applications of vermiculture–Vermiculture Bio-technology, vermicomposting, use of vermicastings in organic farming /horticulture, earthworms for management of municipal/selected biomedical solid wastes; as feed/bait for capture/culture fisheries; forest regeneration.

### **UNIT – V**

Future perspectives–Predator/pathogen control in wormeries; Potentials and constraints for vermiculture in India. Marketing the products of vermiculture – quality control, market research, marketing techniques – creating the demand by awareness and demonstration, advertisements, packaging and transport, direct marketing. Visit to relevant Labs/Field Visits

## Text Books

1. Sultan Ahmed Ismail, 2005. The Earthworm Book, Second Revised Edition. Other India Press, Goa, India.
2. Bharat nagar & Patla, 2007. Earthworm vermiculture and vermin-composting, Kalyani Publishers, New Delhi

## Reference Books:

1. Mary Violet Christy, 2008. Vermitechnology, MJP Publishers, Chennai.
2. AravindKumar, 2005. Verms & Vermitechnology, A.P.H. Publishing Cooperation, New Delhi

  
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