



ST AGNES COLLEGE (AUTONOMOUS)

Mangaluru

Re-accredited by NAAC with A+ Grade, CGPA 3.65/4 (Cycle 4)

College of Excellence by UGC, New Delhi

Star College Status by DBT, MST, Govt. of India

DEPARTMENT OF ZOOLOGY

2022-2023

VALUE ADDED COURSE: VERMITECHNOLOGY

COURSE CODE: VAC56

DURATION: 30 HOURS

RESOURCE PERSON

Ms Blairil Vishma Dcunha

Department of Zoology

Course Outcomes:

on completion of the course, the students

- Develop interest in research.
- Develop positive values to work in a laboratory like cleanliness, discipline, punctuality and teamwork.
- Develop confidence to guide a team and also work independently.
- Learn to prepare in advance the plan of action in a systematic way.
- Learn practical skills to produce something valuable (compost) from waste materials (kitchen waste).
- Develop entrepreneurship skills and are motivated to become self employed, self reliant and financially independent.

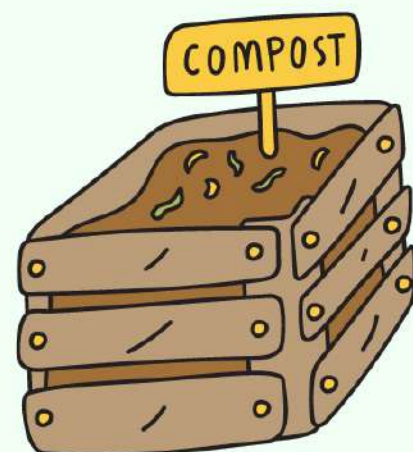
SYLLABUS/COURSE CONTENT

THEORY: 16 HOURS

- Introduction, Classification, history, economic importance.
- Bio transformation of the residues generated by human activity and production of organic fertilizers.
- Choosing the right worm. Useful species of earthworms. Local species of earthworms. Exotic species of earthworms.
- Limit factors(gases, diet, humidity, temperature, pH, light, and climatic factors).
- Physio- chemical parameters of vermicompost.
- Different Methods of Vermicomposting: Small- and large-scale
- Pest and diseases of earthworms.
- Nutritional Composition of Vermicompost for plants, comparison with other fertilizer
- Vermiwash
- Small Scale Earthworm farming for home gardens
- Conventional commercial composting
- Harvesting, packaging, transport and storage of Vermicompost and separation

PRACTICALS: 14 HOURS

- Scientific classification of Earthworm
- Study of external morphology of Earthworm
- Study of habit and habitat of Earthworm
- Study of Digestive system of earthworm
- Study of Reproduction of earthworm
- Vermicomposting unit Pit method
- Establishment of vermicomposting unit Bed method
- Establishment of vermiwash unit
- Vermicompost production, harvesting and packaging.
- Study of cocoon and vermicast
- Study of Pests and diseases of Earthworms



CRITERIA FOR EVALUATION AND MARKS DISTRIBUTION:

MCQ – 25 Marks

Practicals – 20 Marks

Assignment – 05 Marks

Total – 50 Marks

GRADING PATTERN:

A – 40 and above

B – 30 – 39

C – 25 – 29

D – 24 and below

