

DEPARTMENT OF ZOOLOGY

COURSE CURRICULUM AND MARKING SCHEME

SKILL ENHANCEMENT COURSE

ON

GOOD LABORATORY PRACTICES IN ZOOLOGY

SESSION: 2024-25



**GOVT. V.Y.T. PG AUTONOMOUS COLLEGE,
DURG, 491001 (C.G.)**

(Former Name – Govt. Arts & Science College, Durg)

NAAC Grade- 'A*', CPE Phase-III, DBT-Star College

Ph./ Fax: 0788-2359688,

Website: www.govtsciencecollegedurg.ac.in

GOVT.V.Y.T. PG AUTONOMOUS COLLEGE, DURG (CG)
SESSION 2024-25
FOR 4YR UG (B.SC) PROGRAM WITH ZOOLOGY
SKILL ENHANCEMENT COURSE
SEMESTER-I, Course Code – SEC01
GOOD LABORATORY PRACTICES IN ZOOLOGY

Max. Marks:25

Min. marks: 10

- General Safety Guidelines
- Laboratory outfit
- Handling of hazardous chemicals
- Safe usages of equipments
- Cleaning and drying of glassware
- Cleaning and drying of plasticware
- Sterilization of lab wares
- Preparation of solutions: Molar, Molal and Normal solution
- Preparation of stock solution and dilution series.
- Maintenance and calibration of Instruments (pH meter, Centrifuge and Spectrophotometer)

Course Outcome:

After successful completion of the course, students are expected to be able to:

- CO1: understand about the laboratory safety rules
 CO2: get the knowledge about laboratory ethics
 CO3: develop skill of maintaining a safe laboratory
 CO4: Explain the basic principles of laboratory instruments.

The syllabus for skill enhancement course on Good Laboratory Practices in Zoology is hereby approved for the Session 2024-25

Name & Signature of Members of Board of Studies

Chair person/HOD: Dr. Usha Sahu		Departmental Members
Subject Expert		1. Dr. Divya K. Minj 
Subject Expert		2. Dr. Neeru Agrawal 
VC Nominee		3. Ms. Mausumi Dey 
Member of other Department		4. Dr. Sanju Sinha 
Industrial Representative		5. Dr. Alka Mishra
Student Nominee		6. Mr. Sudesh Sahu 
		7. Mr. Anurag Mishra 

GOVT.V.Y.T. PG AUTONOMOUS COLLEGE, DURG (CG)
FOR 4YR UG (B.SC) PROGRAM WITH ZOOLOGY
SKILL ENHANCEMENT COURSE
SEMESTER-I, SESSION 2022-26
Lab. Demonstration, Course Code – SECL01
GOOD LABORATORY PRACTICES IN ZOOLOGY

Max. Marks:25

Min. marks: 10

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|--|----|
| • Cleaning and drying of glassware | 05 |
| • Cleaning and drying of plasticware | 05 |
| • Sterilization of lab wares | 05 |
| • Preparation of solutions: Molar, Molal and Normal solution | 05 |
| • Preparation of dilution series | 05 |

Course Outcome:

After successful completion of the course, students are expected to be able to:

- CO1: Get acquainted with knowledge about laboratory safety rules.
CO2: Understand the protocols of laboratory ethics
CO3: Develop skill to operate and maintain the sophisticated instruments.
CO4: Explain the basic principles and applications of the lab. Equipment.

The syllabus for skill enhancement Lab. course on Good Laboratory Practices in Zoology is hereby approved for the Session 2024-25

Name & Signature of Members of Board of Studies

Chair person/HOD: Dr. Usha Sahu <i>Usha Sahu</i>	Departmental Members
Subject Expert	8. Dr. Divya K. Minj <i>Divya K. Minj</i>
Subject Expert <i>R.P. Singh</i>	9. Dr. Neeru Agrawal <i>Neeru Agrawal</i>
VC Nominee	10. Ms. Mausumi Dey <i>Mausumi Dey</i>
Member of other Department	11. Dr. Sanju Sinha <i>Sanju Sinha</i>
Industrial Representative <i>Alka Mishra</i>	12. Dr. Alka Mishra
Student Nominee <i>Dolly Sahu</i>	13. Mr. Sudesh Sahu <i>Sudesh Sahu</i>
	14. Mr. Anurag Mishra <i>Anurag Mishra</i>

DEPARTMENT OF ZOOLOGY

COURSE CURRICULUM AND MARKING SCHEME

SKILL ENHANCEMENT COURSE

ON

VERMICOMPOSTING

SESSION: 2024-25



**GOVT. V.Y.T. PG AUTONOMOUS COLLEGE,
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SESSION 2024-25
FOR 4YR UG (B.SC) PROGRAM WITH ZOOLOGY
SKILL ENHANCEMENT COURSE
SEMESTER-I, Course Code – SEC02,
VERMICOMPOSTING

Max. Marks:25

Min. marks: 10

- Introduction to vermicomposting
- Identification of earthworm
- Bed/pit preparation,
- Inoculation of earthworm
- Maintenance of Bed
- Vermiwash collection and its use
- Vermicompost collection, packaging, storage and marketing
- Separation of earthworms
- Nutritional value of Vermicompost and vermiwash
- Importance of Vermicompost


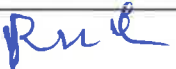
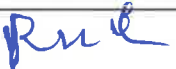


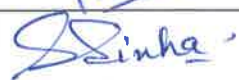




Course Outcomes

After successful completion of these courses the student would be able to:

- CO1:** Cultivate skills to understand vermiculture
CO2: Learn the techniques of composting in a limited space
CO3: Develop technical skills on harvesting and management of vermicompost
CO4: Understand the scope of vermicomposting as entrepreneurship

The syllabus for skill enhancement course on vermicomposting is hereby approved for the Session 2024-25

Name & Signature of Members of Board of Studies

Chair person/HOD: Dr. Usha Sahu 	Departmental Members
Subject Expert 	1. Dr. Divya K. Minj 
Subject Expert 	2. Dr. Neeru Agrawal 
VC Nominee	3. Ms. Mausumi Dey 
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GOVT.V.Y.T. PG AUTONOMOUS COLLEGE, DURG (CG)
SESSION 2024-25
FOR 4YR UG (B.SC) PROGRAM WITH ZOOLOGY
SKILL ENHANCEMENT COURSE
SEMESTER-I
Field Demonstration, Course Code – SECL02
VERMICOMPOSTING

Max. Marks:25

Min. marks: 10

- | | |
|---|----|
| • Earthworm Identification | 05 |
| • Bed/pit preparation, Inoculation of earthworm and \Maintenance of Bed | 10 |
| • Vermiwash collection and its use | 05 |
| • Vermicompost collection, packaging and storage | 05 |

Course Outcomes

After successful completion of these courses the student would be able to:

CO1: cultivate skills to understand vermiculture

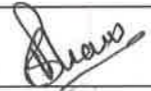
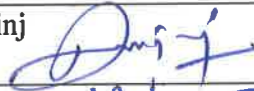
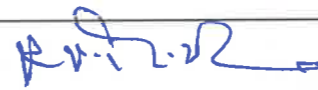


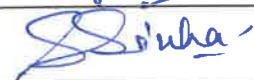



CO2: learn the techniques of composting in a limited space

CO3: develop technical skills on harvesting and management of vermicopost

CO4: understand the scope of vermicomposting as entrepreneurship Separation of earthworms

The syllabus for skill enhancement field demonstration course on vermicomposting is hereby approved for the Session 2024-25

Name & Signature of Members of Board of Studies

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