

Syllabus



SYLLABUS

1. Syllabus of Compulsory language is as that of B.A./B.Sc.-II.
2. Theory and Practical exams will be held at the end of Semester.

Semester	Nomenclature	Credits	Marks	L	T	P
General Components						
CCV 101	Earthworm: Classification	4	100	3	1	-
CCV 102	Production Techniques & Harvesting	4	100	3	1	-
CCV 103	Marketing and Packaging	4	100	3	1	-
Skill Component						
CCV 104	Earthworm Culture	4	100	1	-	3
CCV 105	Pest controlling	4	100	1	-	3
CCV 106	Harvesting techniques	4	100	1	-	3
CCV 107	Chemical analysis	4	100	1	-	3
CCV 108	Industrial Internship	2	50	15 DAYS		



Theory

CCV 101: Earthworm: Classification

- 1.1 Vermicomposting : Introduction and Scope
- 1.2 Types of Earthworm and Classification Epigeic, Endogeic, Diageic
- 1.3 Life history of Earthworms (Earthworm Species *Eisenia foetida*)

CCV 102: Production Techniques & Harvesting

- 2.1 Objectives of Vermicompost
- 2.2 Vermicompost Production : Establishment of Vermicomposting and Vermiwash unit
- 2.3 Different Methods of Vermicomposting: Small and large scale Bed method, Pit method
- 2.4 Harvesting the Compost
- 2.5 Storing and packing of vermicompost

CCV 103: Marketing and Packaging

- 3.1 Precautions while Vermicomposting
- 3.2 Physico- chemical analysis of vermicompost:
- 3.3 Physical Parameters of vermicompost 03
- 3.4 Nutrient content of vermicompost and their role in agriculture
- 3.5 Benefits of vermicompost
- 3.6 Pests and diseases of Earthworms

Practical

- Scientific classification of Earthworm
- Study of external morphology of Earhworm- *Eisenia foetida*
- Study of habit and habitat of Earhworm- *Eisenia foetida*
- Study of Digestive system of earthworm
- Study of Reproduction of earthworm
- Establishment of 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

References

- The Textbook of Vermicompost, Vermiwash and Biopesticides : Keshav singh and et al
Publisher: Biotech Books
- The Book Hand Book Of Biofertilizers & Vermiculture
Publisher: Engineers India Research Institute
- Handbook of Organic Farming and Organic Foods With VermicompostingNeem
Publisher: Engineers India Research Institute
- Text Book of Applied Zoology: Vermiculture, Apiculture, Sericulture, Lac Culture.
Agricultural Pests and their Controls: Pradip Jabde
Publisher: Discovery Publishing House
- The Worm Farmer's Handbook Mid- to Large-Scale Vermicomposting for Farms,
Businesses, Municipalities, Schools, and Institutions :Rhonda Sherman
Publisher: Chelsea Green Publishing
- Vermiculture Technology: Earthworms, Organic Wastes, and Environmental
Management:
Clive A. Edwards, Norman Q. Arancon, Rhonda L. Sherman
Publisher: CRC Press 2010
- Commercial Vermiculture: How to Build a Thriving Business in Redworms:Peter
Bogdanov
- Applied Zoology:N Arumugam , T Murugan , R Ram Prabhu ,J Johnson Rajeshwar.
Publisher: Saras Publication
- Worm Farming: Setup A Sustainable Vermiculture Earthworm Composting Ranch: Brian
Grant
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