


1.2.2 Number of Add on / Certificate programs offered during the session 2021-2022

- 1. Certificate Course in Vermiculture**
- 2. Certificate Course in Mushroom Culture**

1. Certificate Course in Vermiculture

Broucher of Certificate Course in Vermiculture

**Nilkanthrao Shinde Science and Arts College,
Bhadrawati Dist – Chandrapur
DEPARTMENT OF ZOOLOGY**




ADMISSION OPEN FOR
CERTIFICATE COURSE IN VERMICULTURE
SESSION 2021-2022

DURATION : 03 MONTHS
ELIGIBILITY: XII PASS

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CO-ORDINATOR
DEPT. OF ZOOLOGY
MOBILE NO. :988173612

DR. L. S. LADKE
PRINCIPAL


Dr. L.S. Ladke
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N.S. Science & Arts College
Bhadrawati Dist, Chandrapur

2. Syllabus of Certificate Course in Vermiculture

NILKANTHRAO SHINDE SCIENCE AND ARTS COLLEGE, BHADRAWATI

DIST. CHANDRAPUR - 442902

CERTIFICATE COURSE IN VERMICULTURE

SYLLABUS

The Syllabus of this Certificate Course is based on theory and Practical Periods. The Written examination based on this course will consist of theory paper of 100 marks.

Unit – I

- Vermiculture and Vermicomposting
- Earthworm Species for Vermicompost Production
- Identification of Earthworms
- Worm related Opportunities for Farmers- Potential Income Diversification- Sale of Vermicompost, Sale of Worms.

Unit –II

- Essential Things for Vermicompost Production
- Common Bedding Materials
- Common Worm Feed Stocks
- Moisture and Aeration in Vermicompost Production
- Vermicompost Pit Construction

Unit – III

- Other Important Parameters for Vermicompost Production and Vermiculture- PH, Salt Content, Urine Content.
- Methods of Harvesting Worms – Manual methods, Self Harvesting Methods
- The Value of Vermicompost –Ability to stimulate plant growth, Level of Beneficial Microorganisms, Level of Plant available nutrients, Ability to repel pests.

Unit – IV

- Calculating Rates of Reproduction
- Pests and Diseases of worms – Moles, Birds, Centipedes, Ants, Mites, Protein Poisoning of worms



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- Vermicompost Systems- Windrows, Top Feed Windrows, Beds or Bins, Flow Through Reactors.
- Vermicomposting and Water Quality Issues
- Climate Change Factors
- Nutrient Profile of Vermicompost.

Reference Books/ Manual :

Manual on Farm Vermicomposting and Vermiculture - Glenn Munroe, Organic Agriculture Centre of Canada.

Myers, Ruth (1969). The ABC's of Earthworm Business, Shields Publications, Winsconsin, USA, 64 pp.

Date: 15/6/2021


15/6/2021
Dr. Shashikant R. Sitre
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2. Certificate Course in Mushroom Culture

Broucher of Certificate Course in Mushroom Culture Technology

**Nilkanthrao Shinde Science and Arts College
Bhadrawati Dist – Chandrapur**

DEPARTMENT OF BOTANY



ADMISSION OPEN FOR
CERTIFICATE COURSE IN MUSHROOM CULTURE
SESSION 2021-22

DURATION : 03 MONTHS

ELIGIBILITY: XII PASS

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