

**SRI VENKATESWARA UNIVERSITY**  
**B.Sc. DEGREE COURSE IN ORGANIC FARMING**

**FIRST YEAR - FIRST SEMESTER**  
**(Syllabus under CBCS w.e.f. 2020-21)**

**Course-I: BASIC CONCEPTS OF ORGANIC FARMING**  
(Total hours of teaching – 60 @ 04 Hrs./Week)

**Theory :**

**Learning Outcomes :** On successful completion of this course, the students will be able to :

- Develop a critical understanding of ill effects of conventional farming and benefits of organic farming.
- Demonstrate skills on different composting methods.
- Explain the various methods for crop protection.
- Acquire managerial skills of organic farming.

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**Unit – 1 : Introduction to Organic Farming** **12 Hrs.**

1. Organic farming: Introduction and status.
2. Organic farming and its components.
3. Organic farming - Concepts and principles.
4. SWOT Analysis of Organic Farming.

**Unit – 2 : Sustainable Agriculture** **12 Hrs.**

1. Sustainable Agriculture.
2. Key indicators of sustainable agriculture.
3. Organic farming and climate change.
4. Principles of compost production.

**Unit – 3 :Vermicompost Production Technology** **12 Hrs.**

1. Vermicompost production technology.
2. Enriched Vermicompost production technology.
3. Vermicompost quality and marketing.

**Unit – 4 :CropProtection** **12 Hrs.**

1. Introduction to pest and disease Management.
2. Pest and disease management in organic farming – preventive methods.
3. Pest and disease management in organic farming – physical and mechanical methods.
4. Pest and disease management in organic farming using allowed bio-pesticides.

**Unit – 5 : Basics of Organic Crop Management** **12 Hrs.**

1. Introduction to Organic Crop Management – land preparation, planting technic, nutrient management.
2. Factors considered for nutrient management; recommended nutrient quantity – blanket, major problems; balance sheet method.
3. Nutrient composition of some organic resources, right timing of nutrient application.
4. Right method of nutrient application, nutrient use efficiency.

**Books for Reference :**

- **Rana, S.S., 2016.** Organic Farming, CSK Himachal Pradesh KrishiVishvavidyalaya, Palampur
- **MamtaBansal, 2020.** Basics of Organic Farming, CBS Publihers and Distributors Pvt.Ltd., New Delhi
- **Palaniappan, S.P., & .Annadurai, 2016.**Organic Farming : Theory and Practice, Scientific Publishers, Jodhpur
- **Reddy, S.R., 2017.** Principles of Organic Farming, Kalyani Publishers, New Delhi
- Organic Farming for Sustainable Agriculture, <https://nptel.ac.in/courses/126/105/126105014/#>

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**Practical Paper-I: BASIC CONCEPTS OF ORGANIC FARMING**  
(Total hours of laboratory exercises 30 Hrs. @ 02 Hrs./Week)

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**Course Outcomes:** On successful completion of this course students shall be able to :

- Identify various sources of organic manures and can apply them in farming.
  - Prepare FYM and compost and use them for organic farming.
1. Study of various implements used in Agriculture.
  2. Study of different green manures and their morphological features.
  3. Studying the earth worm species used to make vermicompost.
  4. Studying various types of organic manures.
  5. Trench method of preparing Farm Yard Manure (FYM).
  6. Quality and composition of FYM.
  7. Composting –Bangalore process.
  8. Composting – Coimbatore process.
  9. Making a vermicompost bed and vermicompost pit.
  10. Steps in making vermicompost (bed and pit method), harvesting and precautions.

**SRI VENKATESWARA UNIVERSITY**  
**B.Sc. DEGREE EXAMINATION IN ORGANIC FARMING**

**FIRST YEAR - FIRST SEMESTER**  
**(Revised Syllabus under CBCS w.e.f. 2020-21)**

**Course – I: BASIC CONCEPTS OF ORGANIC FARMING**

**MODEL QUESTION PAPER**

Time: 3 hours

Marks: 75 marks

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer any five of the following questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks

**PART – A**

Answer any *Five* of the following question.

**(5X5=25M)**

|    |  |
|----|--|
| 1. |  |
| 2. |  |
| 3. |  |
| 4. |  |
| 5. |  |
| 6. |  |
| 7. |  |
| 8. |  |

**PART – B**

Answer All The Questions. Each question carries 10 marks (5X10= 50M)

|    |     |    |
|----|-----|----|
| 1. | (A) | OR |
|    | (B) |    |
| 2. | (A) | OR |
|    | (B) |    |
| 3. | (A) | OR |
|    | (B) |    |
| 4. | (A) | OR |
|    | (B) |    |
| 5. | (A) | OR |
|    | (B) |    |

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**B.Sc. DEGREE EXAMINATION IN ORGANIC FARMING**

**FIRST YEAR - FIRST SEMESTER**  
**(Revised Syllabus under CBCS w.e.f. 2020-21)**

**Practical Paper– I: BASIC CONCEPTS OF ORGANIC FARMING**

**MODEL QUESTION PAPER**

Max. Time: 3 Hrs.

Max. Marks: 50

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- |  |              |
|--|--------------|
| 1. Experiment 'A' (Demonstrate procedure for preparing farm yard manure.)                                | 10 M         |
| 2. Experiment 'B' (Demonstrate a process of composting.)   | 10 M         |
| 3. Experiment 'C' (Demonstrate procedure of making vermicompost bed/pit or steps in making vermicompost) | 10 M         |
| 4. Identify the following and justify with reasons   | 2 x 5 = 10 M |
| D. Implement used in Agriculture   |              |
| E. Green manure/organic manure   |              |
| 5. Record + Viva voce  | 5 + 5 = 10 M |

**Suggested co-curricular activities for Organic Farming Core Course -1 in Semester-I:**

**A. Measurable :**

**a. Student seminars :**

1. Historical account of Organic Farming.
2. Ideological differences between organic and conventional (chemical) farming.
3. Relevance of Organic Farming in the present context.
4. The international scenario of organic farming.
5. Masanobu Fukuoka –Japanese natural farming.
6. Perma Culture –Bill Mollison.
7. Biodynamic agriculture.
8. Ecological Farming.
9. Palekar model.
10. Green Revolution – a boon or bane.

**b. Student Study Projects:**

1. A study report on Agriculture and climate change.
2. A case study on ill effects of chemical fertilizers and pesticides on human health in India.
3. A study report on export and import of organic food products in India.
4. A report on organic agriculture and horticulture in his/her native district.
5. A report on government initiatives towards organic farming.
6. A test report on composition and quality of compost.
7. A study report on loss of nutrients during preparation, handling and storage.

**c. Assignments:** Written assignment at home / during '0' hour at college; preparation of charts with drawings, making models etc., on topics included in syllabus.

**B. General :**

1. Group Discussion (GD)/ Quiz/ Just A Minute (JAM) on different modules in syllabus of the course.
2. Visit to organizations working on Organic Farming/ interaction with farmers practicing O.F.