

**SRI VENKATESWARA UNIVERSITY**  
**B.Sc. DEGREE COURSE IN ORGANIC FARMING**  
**FIRST YEAR - SECOND SEMESTER**  
**(Syllabus under CBCS w.e.f. 2020-21)**

**Course – II: PRACTICES IN 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 :

- Cultivate various crop plants using principles of organic farming.
- Realize the importance of Integrated Farming System for production of quality products.
- Explain the benefits of organic products as food and fodder.
- Develop critical understanding on organic certification process and marketing of produce.

---

**Unit – 1 :Organic Crop Management -1**

**12 Hrs.**

1. Organic vegetable crop management – Potato
2. Organic vegetable crop management –Tomato.
3. Organic food crop management – Rice
4. Organic food crop management – Wheat

**Unit – 2 : Organic Crop Management -2**

**12 Hrs.**

1. Organic pulse crop management – Red gram
2. Organic oil seed crop management – Ground nut
3. Organic fruit crop management – Mango
4. Organic plantation crop management – Tea

**Unit – 3 : Transition to Organics**

**12 Hrs.**

1. Introduction on transition to organic crop production.
2. Crop planning and rotation design in organic system.
3. Integrated Farming System (IFS) and urban agriculture.
4. Quality of organic food.

**Unit – 4 : Organic foods – benefits**

**12 Hrs.**

1. Natural sources of antioxidants for health defense.
2. Antioxidant capacity of fruits and vegetables.
3. Organic food and human health.
4. Organic standard.

**Unit – 5 : Certification and Marketing of Organics**

**12 Hrs.**

1. Organic certification process – definition, need, aim and scope, requirements to maintain certification.
2. Organic certification process – labeling of products, NPOP, organic quality control, standards, accreditation, inspection and certification.
3. Operational structure of organic certification.
4. Marketing of organic products.

**Books for Reference :**

- **Vandana Shiva, Poonam Pande and Jitendra Singh, 2004.** Principles of Organic Farming - Renewing the Earth's Harvest, Navdanya, New Delhi.
- **Sujit Chakrabarty, Sumati Narayan, Farooq Ahmad Khan, 2019.** Arts and Science of Organic Farming, Purna Organics
- **Thapa, U., and P. Tripathi, 2016.** Organic Farming in India, Agrotech Publications, Udaipur
- **Peter, V. Fossel, 2007.** Organic Farming ( Everything You Need to Know), Voyageur Press, USA
- Organic Farming for Sustainable Agriculture, <https://nptel.ac.in/courses/126/105/126105014/#>

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

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

**Practical Paper – II: PRACTICES IN ORGANIC FARMING**

(Total hours of laboratory exercises 30 Hrs. @ 02 Hrs./Week)

---

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

- Prepare organic biostimulants and apply them at various growth stages of crop plants.
  - Make biocontrol products for organic farming.
  - Demonstrate skills on various cropping systems in organic farming.
1. Preparation of Jeevamrutham (liquid and solid).
  2. Preparation of Beejamrutham.
  3. Preparation of Neemastram.
  4. Preparation of Brahmastram.
  5. Preparation of Agniastram.
  6. Preparation of Dasaparnikashayam.
  7. Study of mulching.
  8. Study of intercropping method.
  9. Study of water management in Organic Farming.
  10. Study of live stock component in Organic Farming.

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

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

**Course – II: PRACTICES IN 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)

|     |  |
|-----|--|
| 9.  |  |
| 10. |  |
| 11. |  |
| 12. |  |
| 13. |  |
| 14. |  |
| 15. |  |
| 16. |  |

**PART – B**

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

|     |     |    |
|-----|-----|----|
| 6.  | (A) | OR |
|     | (B) |    |
| 7.  | (A) | OR |
|     | (B) |    |
| 8.  | (A) | OR |
|     | (B) |    |
| 9.  | (A) | OR |
|     | (B) |    |
| 10. | (A) | OR |
|     | (B) |    |

**SRI VENKATESWARA UNIVERSITY**  
**B.Sc. DEGREE EXAMINATION IN ORGANIC FARMING**  
**FIRST YEAR - SECOND SEMESTER**  
**(Revised Syllabus under CBCS w.e.f. 2020-21)**

**Practical Paper– II: PRACTICES IN ORGANIC FARMING**  
**MODEL QUESTION PAPER**

Max. Time: 3 Hrs.

Max. Marks: 50

- 
- |   |              |
|---|--------------|
| 1. Experiment 'A' (Preparation of Jeevamrutham/Beejamrutham)          | 10 M         |
| 2. Experiment 'B' (Preparation of Neemastram/Brahmastram/Agniasttram) | 10 M         |
| 3. Experiment 'C' (Mulching or inter cropping practice)               | 10 M         |
| 4. Identify the following and justify with reasons                    | 2 x 5 = 10 M |
| D. Irrigation method  |              |
| E. Live stock component   |              |
| 5. Record + Viva voce   | 5 + 5 = 10 M |

**Suggested co-curricular activities for Organic Farming Core Course -2 in Semester-II:**

**A. Measurable :**

**a. Student seminars :**

1. Chemical fertilizers-history, practical aspects, positive and negative aspects of chemical fertilizers.
2. Bio-intensive nutrient management.
3. Soil populations and processes.
4. Principles of microbial degradation - Action of microorganism.
5. Losses of nutrients from FYM during preparation, handling and storage.
6. Ways to minimize the losses from FYM during handling.
7. Integrated Farming system (Combination of Organic and Inorganic).
8. Different cropping systems in relation to Organic Farming.
9. Plant nutrients and their functions in plant growth and development.
10. Recycling of organic matter in organic Agriculture.
11. Organic Agri-Horticulture in Urban & Semi urban areas of India.
12. Importance of Neem in organic Agriculture.

**b. Student Study Projects:**

1. A case study on organic farming of a horticulture crop from beginning to ending.
2. A case study on organic farming of a food crop from beginning to ending.
3. A case study on organic farming of a pulse crop from beginning to ending.
4. A case study on organic farming of a fruit crop from beginning to ending.
5. A case study on organic farming of a plantation crop from beginning to ending.
6. A study on economics of a crop in conventional and organic farming methods.
7. A case study on getting certification for an organic farm product.
8. A report on soil chemistry in a conventional and organic crop field.

**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.