



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Agriculture
B.Sc. (Hons.) Agriculture,
Generic Elective Course

Semester-I

Session 2024-25

Syllabus

GUAGRI VSC 101: Organic Vegetable Production (3+0)

Course code	Course Name	TEACHING & EVALUATION SCHEME							
		THEORY			PRACTICAL		L	P	CREDITS
		End Sem University Exam	Mid Term Exam	Teachers Assessment*	End Sem University Exam	Teacher's Assessment*			
GUAGRI VSC 101	Organic Vegetable Production	60	40	00	00	00	3	0	3

1. **Legends:** L - Lecture; P – Practical; C-Credit.

2. ***Teacher Assessment** shall be based on following components: Quiz / Assignment / Project / participation in class.

Objective

Organic farming is to produce safer food and to keep the environment healthy.

Why this course?

Organic vegetable farming is an ecological production management system that promotes and enhances biodiversity, biological cycles and soil biological activity. Organic farming has been simply defined as a production system working in partnership with nature to produce vegetable crops. The current trend towards increasing popularity of organically produced vegetables is relatively new. The objective of organic farming is to produce safer food and to keep the environment healthy. During the decade of nineties, the interest in organic farming began to creep into the mainstream consumer purchases. Currently, it appears to be an influx of business-oriented producers into the organic production field. The increasing popularity of organic food among the elite societies is due to the belief that food produced with this system is free of pesticides and has greater nutritive value than conventionally produced food. The students of undergraduate need to have an understanding of organic vegetable farming technology.

Aim of the course

To elucidate principles, concepts and their applications in organic farming of vegetable crops.

Course outcome

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

- Appreciate the scope and scenario of organic vegetable production in India.
- Acquire knowledge about the organic vegetable production technology.
- Adopting production of organic vegetable crops as entrepreneur.

Theory

Unit I

Importance and principles—Importance, principles, perspective, concepts and components of organic farming in vegetable crops

Unit II

Organic production of vegetables—Organic production of vegetable crops, viz., Solanaceous, Cucurbitaceous, Cole, root and tuber crops

Unit III

Managing soil fertility—Managing soil fertility, mulching, raising green manure Horticultural Sciences—Vegetable Science crops, weed management in organic farming system; Crop rotation in organic production; Processing and quality control of organic vegetable produce

Unit IV

Composting methods—Indigenous methods of composting, Panchyagavya, Biodynamics preparations and their application; ITKs in organic vegetable farming; Role of botanicals and bio-control agents in the management of pests and diseases in vegetable crops

Unit V

Certification and export—Techniques of natural vegetable farming, GAP and GMP certification of organic products; Export- opportunity and challenges.

Suggested Reading

- Dahama AK. 2005. Organic farming for sustainable agriculture. 2nd Ed. *Agrobios*.
- Gehlot G. 2005. Organic farming; standards, accreditation certification and inspection. *Agrobios*.
- Palaniappan SP and Annadorai K. 2003. Organic farming, theory and practice. *Scientific publ.*
- Pradeepkumar T, Suma B, Jyothibhaskar and Satheesan KN. 2008. Management of horticultural crops. New India Publ. Agency.
- Shivashankar K. 1997. Food security in harmony with nature. 3rd IFOAMASIA, Scientific Conf. 1- 4 December, UAS, Bangalore.

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