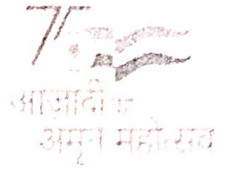




हिमाचल प्रदेश केंद्रीय विश्वविद्यालय  
**Central University of Himachal Pradesh**  
(Accredited by NAAC with 'A+' Grade with CGPA of 3.42)  
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(पादप विज्ञान विभाग / Department of Plant Sciences)



**Course Name: Principles of Organic and Natural farming**  
**Course Code: PLS 419**  
**Credits: 02**

**Course Outcomes:**

By successfully completing the course, the student will be able:

- To gain the theoretical knowledge in Organic Farming Practices
- To Learn a means of self-employment and income generation

**UNIT-1**

Why Organic Farming, Concept and Principles of organic farming; Historical development of Organic Farming / Agriculture, Advantages and Disadvantages.

**UNIT-2**

Natural Farming, Integrated and Mixed Farming system. Types of organic manure-Green manure, Farm Yard Manure, Farm compost, Urban waste compost, Rural waste compost, Vermi-compost.

**UNIT-3**

Chemical fertilizers and their impact on environment, Organic farming- benefits and impacts. Bioformulations and Bio-Pesticides, Effective Microbial Technology in Organic Farming

**UNIT-4**

Concept of Compost and Mulching: methods, types, Application of compost and mulching. Soil Health and Nutrient Management, Integrated Pest and Disease Management, Weed control.

**UNIT-5**

Organic Food Production and Processing, Economics of organic farming, Indian National Standards for organic products, Marketing of Organic Products, Organic certification of farms.

**Reference Books:**

1. Sarath Chandran, Unni M.R and Sabu Thomas. 2018. Organic farming. Woodhead Publishing, UK.
2. Reddy, S.R.2017. Principles of organic farming. Kalyani publishers, India
3. Ranjan Kumar Biswas. 2014. Organic farming in India. New Delhi Publishers, India.
4. Peter Fossil. 2014. Organic Farming: How to Raise, Certify, and Market Organic Crops and Livestock. Reprint edition, Voyageur Press, USA.
5. Organic farming-Theory and Practice by S.P. Palaniappan and K. Annadurai
6. Organic crop production (Principles and practices Vol-I: Principles and General Aspects) by J. P. Sharma