

Certificate in Organic Natural Farming (CONF)

CURRICULUM Scheme and Syllabus

Duration: 03 Months

Eligibility: Any one youth and farmers who interested.

Credits: 3 (2+1)

Contact Hrs.: 80

Objective: To produce food of high nutritional quality in sufficient quantity. To work with natural system rather than seeking to dominate them. To encourage and enhance biological cycles within farming system-involving microorganisms, soil flora and fauna, plants and animals. To maintain and increase long term fertility of soil. to impart knowledge and proficiency in Organic production practices, Certification process and Marketing of organically raised agricultural products, and to promote self employment and income generation.

Course Offered:

Course Code	Course Title	Hrs.
CONF 001	Introduction and Organic Agriculture	16
CONF 002	Organic Fertilizers/ Manure	16
CONF 003	Composting	16
CONF 004	Natural Farming	16
CONF 005	Certification and Inspection Systems in Organic Farming in India	16
	Total	80

Examination Scheme:

Components	CT	HA	C	V	A	EE
Weightage (%)	10	5	5	5	5	70

(C - Case Discussion/ Presentation; HA - Home Assignment; V - Viva; CT- Class Test; A - Attendance; EE - End Examination)

Syllabus

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Course Content

CONF: Organic and Natural Farming

Theory

CONF 001: Introduction and Organic Agriculture

Introduction, Organic Agriculture Vs. Conventional Agriculture, History of Organic Farming, Definitions, Principles, Concept, Need of Organic Farming, Mulching in Organic Agriculture, Water Management in Organic Agriculture, Nutrient Management in Organic Agriculture, Weed Management in Organic Agriculture, Soil Cultivation and Tillage in Organic Agriculture

CONF 002: Organic Fertilizers/ Manure

Why use organic fertilizers? Keeping soil fertile in natural way: Soil, Composting, Vermicomposting, Bio-fertilizers, other homemade fertilizers, Effect of Inorganic fertilizers and other agro-chemicals on soil and plants, Chemical fertilizers Vs. Organic fertilizers: Chemical fertilizers and their impact and Advantages of Organic fertilizers, Advantages of Organic Manure, Major organic sources and transformation, Residual effect of Organic manure, Green Manures: Nutrient potential of green manure, Nutrient content of important green manure, Advantage of green manure

CONF 003: Composting

Purpose of composting, What happens during composting, Factors affecting the composting process, Decomposing organisms, Limitations of composting. Vermicomposting and NADEP composting

CONF 004: Natural Farming

Introduction, Need and Concept, Objective, Principle of Natural farming, natural insecticide, herbicide, fertilizers, fungicide etc.

CONF 005: Certification and Inspection Systems in Organic Farming in India

Organic certification, Purpose of certification, Certificate Process, Operational Structure, Standards for Organic production, Inspection and Certification process

Practical: Preparation of various type of compost including vermicompost and NADEP compost. Preparation of natural fertilizer, growth promoter, insecticide, fungicide, herbicide etc.