



Six Month Diploma Course in Organic Farming
University Grant's Commission's Community College Scheme
M.C College, Barpeta, Assam

Sl No	Topic/Module	Duration (In hrs)	Key Learning Outcomes
1	Introduction to Organic Farming	Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 00:00	<ul style="list-style-type: none"> ➤ General Instructions to the Trainee ➤ Understand the Role of an Organic Grower ➤ Understand and study the Scopes and Opportunities of Organic Farming ➤ Study the Need of Organic Farming in India
2	Undertake planning for Organic Farming	Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 10:00	<ul style="list-style-type: none"> ➤ Selection of Crop ➤ Understand the need of safe farming practices ➤ Understand and practice the type of safe farming practices ➤ Transition to Organic Farming <ul style="list-style-type: none"> • Estimate the cost and time of Organic Farming • Budget estimation • Understand the phased approach to be taken to transition to organic farming ➤ Prepare Crop portfolios – Multi crop, Feasible crop ➤ Prepare Yearly Plan / Crop Schedule
3	Seed Selection & treatment under organic farming	Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 10:00	<ul style="list-style-type: none"> ➤ Crop Selection <ul style="list-style-type: none"> • Identify main crop and companion crop • Plan for intercrop, mixed crop, relay crop, trap crop etc • Plan for crop rotation cycle • Crop schedule ➤ Selection of seed variety – insect pest resistant, non-genetically modified etc ➤ Seed Treatment <ul style="list-style-type: none"> • Understand the organic practices

			<p>for seed treatment</p> <ul style="list-style-type: none"> • Identify inputs/material to be used for organic seed treatment • Preparation of inputs for seed treatment • Implementation of seed treatment
4	Soil nutrient management under Organic farming	<p>Theory Duration (hh:mm) 10:00</p> <p>Practical Duration (hh:mm) 10:00</p>	<ul style="list-style-type: none"> ➤ Understand the concept of soil nutrient management under organic farming ➤ Understand the Soil Activation and Soil enhancement <ul style="list-style-type: none"> • understand importance of top soil in organic cultivation • identify various methods of activating microbial activity in top soil • prepare various organic inputs that can increase soil microbial activity • apply soil activating inputs effectively • Soil Testing, Soil amendment, manuring, crop selection, land preparation, green manure crop, farm yard manure, use of bio mass, vermi compost, vermiwash, implementation of soil enhancement methods, protocol preparation for basal dose application & top dressing
5	Weed control under Organic Farming	<p>Theory Duration (hh:mm) 05:00</p> <p>Practical</p>	<ul style="list-style-type: none"> ➤ Identification of weeds <ul style="list-style-type: none"> • identify the types of weed in the crop • Consult the experts ➤ Weed Management <ul style="list-style-type: none"> • undertake

		Duration (hh:mm) 10:00	<p>mechanical/manual weeding process at appropriate time to avoid crop damage</p> <ul style="list-style-type: none"> • use mulching sheets for cultivation • use bio-herbicides for weed control wherever feasible • use mechanized weed control equipment
6	Irrigation Management under Organic farming	Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 10:00	<ul style="list-style-type: none"> ➤ Identify characteristics of good irrigation system ➤ Understand and adopt the micro irrigation techniques ➤ Identify the tools/equipment required for micro irrigation ➤ Understand the optimum moisture level required for the farm
7	Integrated Pest and Disease Management under organic farming	Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 20:00	<ul style="list-style-type: none"> ➤ Identify the crop infestation ➤ Identify the symptoms of disease ➤ incidence in crop ➤ Identify the stages of pest incidence ➤ Understand the use of suitable varieties ➤ Preventive and curative care <ul style="list-style-type: none"> • Resistant varieties, crop rotation, inter crop, border crop, trap crops, interculture operations, understand the natural enemies of pest, beneficial insects, bio-insecticides, etc
8	Harvest and Post – harvest management under	Theory Duration (hh:mm) 05:00	<ul style="list-style-type: none"> ➤ Harvesting of the crop: Crop maturity, moisture content during harvesting, etc ➤ Understand about the physical admixture during harvesting

	organic farming	Practical Duration (hh:mm) 10:00	<ul style="list-style-type: none"> ➤ Harvesting methods and handling of harvested crops ➤ Understand the Post harvest management practices like grading, storage, organically acceptable fumigation, cold storage, packaging and marketing
9	Undertake Quality assurance & certification in Organic Farming	Theory Duration (hh:mm) 10:00 Practical Duration (hh:mm) 20:00	<ul style="list-style-type: none"> ➤ Third party certification process ➤ Risk management in compliance of standards ➤ Participatory guarantee system ➤ Documentation in third party and PGS certification ➤ Documents needed for sale of organic produce and traceability
10	Undertake business of Organic farming	Theory Duration (hh:mm) 5:00 Practical Duration (hh:mm) 15:00	<ul style="list-style-type: none"> ➤ Economics of organic farming ➤ Connecting with the market and market intelligence ➤ Direct marketing
11	Maintain Health & Safety at the work place	Theory Duration (hh:mm) 05:00 Practical Duration (hh:mm) 05:00	<ul style="list-style-type: none"> ➤ Perform General safety Rules ➤ Gain Knowledge of various health hazards relevant to workplace and basic first aid training. ➤ Understand the basic safety checks and other common reported hazards before all farm operation ➤ Understand, identify and study the use of equipment, materials safely and correctly ➤ Understand and handle the emergency situation in workplace and during any farm operation
	Total		Unique Equipment Required:

	Duration Theory Duration 80:00 Practical Duration 120:00		White Board, Marker, Laptop, projector, Record Keeping Book, receipts, voucher, Soil testing kit, plastic bags, labels, plough, seed drill, leveler, tractor, Sprayer, bio fertilizers, irrigation tools & equipments, container, Storage infrastructure -cool chamber, crate, bags, Nose masks, first aid kit
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Grand Total Course Duration: 200 Hours, 0 Minutes