

M.Sc ORGANIC FARMING**SEMESTER - 1**

Paper No	Subject	Contents Of Syllabus
Paper - I	INTRODUCTION TO ORGANIC FARMING - I	What is Organic Farming? Genetically Modified Organism Organic Certification Countries with Organic Agriculture Regulation Organic Clothing and Organic Cotton Organic Baby Products Farm Assurance Pesticide Green Pesticide Non-Pesticide Management
Paper - II	ORGANIC FARMING TECHNIQUES - I	What is Aquaponics? What is Aquaculture? What is Horticulture? What is Hydroponics? What is Microponics? What is Permaculture? What is Symbiosis? What is Companion Planting? Companion Plants Repellent Plants What is Green Pest Management? Integrated Pest Management Intercropping Allotment Garden Asset-Based Community Development Community Gardening Container Garden Ecological Sanitation Forest Gardening Home Garden Green Wall Roof Garden Shade-Grown Coffee Sheet Mulching Sustainable Agriculture

Paper - III	ORANIC FARMING SYSTEMS AND APPROACHES - I	What is Biodynamic Agriculture? Organic Farming Approaches for Bringing Productivity Organic Farming Methods Organic Horticulture Vegan Organic Gardening Wildlife Garden Natural Landscaping Forest Gardening Companion Planting History of Organic Farming
Paper -IV	ORNAMENTAL ORGANIC GARDENS - I	Garden Plants Flowers of India Organic Lawn Management Lawn
Paper - V	INTEGRATED PEST MANAGEMENT - I	Integrated Pest Management Biological Pest Control Physiological Plant Disorders Boron Deficiency as a Plant Disorder Calcium Deficiency as a Plant Disorder Iron Deficiency as a Plant Disorder Magnesium Deficiency Affecting Agriculture Productivity Manganese Deficiency in Plants Nitrogen Deficiency Phosphorus Deficiency Potassium Deficiency in Plant Plant Pathology Honey Fungus
SEMESTER - 2		
Paper No	Subject	Contents Of Syllabus
Paper - I	INTRODUCTION TO ORGANIC FARMING - II	Motivations for Organic Agriculture Soil Conservation Organic Farming and Biodiversity Organic Farming in India Organic Agriculture in India Organic Farming in India:Relevance, Problems and Constraints Statue of Organic Farming in India Current Status of Organic Farming in India and other Countries Organic Farming Policy,Strategy and Action Plan: A Case Study of Kerala

Paper - II	ORGANIC FARMING TECHNIQUES - II	Vertical Farming Push-Pull Technology Multiple Cropping Succession Planting No- Dig Gardening Masanobu Fukuoka No-Till Farming Vegan Organic Gardening Pollination Management Pollinator Decline Square Foot Gardening Weed Control Stale Seed Bed Xeriscaping Sustainable Gardening Natural Landscapping Wildlife Garden Native Plant Rainwater Harvesting Gardening Dryland Farming International Centre for Agriculture Research in the Dry Areas Greywater Underutilized Crop
Paper - III	ORGANIC FARMING SYSTEMS AND APPROACHES - II	Permaculture Square Foot Gardening Raised Bed Gardening Kitchen Garden Garden Design Vegetable Farming Knot Garden History of Gardening Therapeutic Garden Butterfly Gardening Garden

Paper -IV	ORNAMENTAL ORGANIC GARDENS - II	Grassland Invasive Grasses of North America Compost Benefits of Subtle-Energy Gardening
Paper - V	INTEGRATED PEST MANAGEMENT - II	Armillaria Root Rot Armillaria Species Bioluminescence Specific Replant Disease Rusts as Foliar Disease Caused by Fungal Pathogens Wheat Leaf Rust Leaf Rust as a Fungal Disease of Barley Fungus Smut as Multicellular Fungi Disease Resistance in Fruit and Vegetables Plant Disease Resistance Plant Defense Against Herbivory
SEMESTER - 3		
Paper No	Subject	Contents Of Syllabus
Paper - I	ORGANIC FERTILIZERS - I	Organic Fertilizers Biosecurity Good Agriculture Practices Compost for Organic Farming Uses of Compost Humanure Anaerobic Digestion Anaerobic Digester Types Bioconversion of Biomass to Mixed Alcohol Fuels Biogas Carbon Dioxide Removal Oxygen Saturation Environmental Issues with Energy
Paper - II	ORGANIC ORGANISATIONS - I	International Federation of Organic Agriculture Movements EU-ECO-Regulation The Rodale Institute Soil Association Certified Naturally Grown

Paper - III	ORGANIC FOOD - I	Organic Food Sustainable Living Community-Supported Agriculture Development Supported Agriculture Ecolabel Genetically Modified Food Kosher Foods Organic Beans Organic Milk Natural Foods Raw Foodism
Paper -IV	FUTURE OF ORGANIC FARMING - I	Agriculture of the Future will be Organic Organic : Is the Future of Farming? Organic farming and the Future of Food The Future is Organic : But it's more than Organic! How can Organic Agriculture help farmers Adapt to Climate Change? India's Future lies in Organic Farming Changing Scenario of Organic Farming in India. The Science Base of Organic farming and Transition Organic Crop Management
Paper - V	PERSONALITIES PROMOTING ORGANIC FARMING - I	Charles, Prince of wales Prince Philip, duke of Edinburgh Michelle Obama Elio Coleman Shewell Cooper Bob Flowrdew Masanobu Fukuoka Howard Garrett Geoff Hamilton

SEMESTER - 4

Paper No	Subject	Contents Of Syllabus
Paper - I	ORGANIC FERTILIZERS - II	Methane Clathrate Microbiology of Decomposition Cost of Electricity by Source Sewage Treatment Manure Cow Dung Composting Toilet Municipal Solid Waste Humus Mulch Rock Flour Woodchips

Paper - II	ORGANIC ORGANISATIONS - II	Worldwide Opportunities on Organic Farms (WWOOF) Caroline Farming Stewardship Association Organic Farming News around the World Organic Farming Association of India Organic Farms in India
Paper - III	ORGANIC FOOD - II	Whole Foods Essential Nutrient Food Addictive Food Fortification Herbalism Medicina; Mushrooms Whole Grain Health Food Functional Food Healthy diet What is the Future of Organic Foods?
Paper -IV	FUTURE OF ORGANIC FARMING - II	Soil Fertility for Organic Crop Production Plant Protection and Crop Management Organic Livestock Production Organic Gardening : Markets and Home Processing and Marketing Organic Products Organic Farming and Local Food Systems : Intimate Connections Economics of Organic Agriculture European Action Plan for Organic Food and Farming Future of Organic Farming in Wales
Paper - V	PERSONALITIES PROMOTING ORGANIC FARMING - II	Robert Hart (Horticulturist) Lawrence D.Hills Albert Howard Dan Jason Helen and Scott Nearing J.I.Rodale Dr.Priya Ranjan Trivedi Organic Movement Catalytic Role of the Indian Institute of Ecology and Environment in Promoting Organic Farming and Recycling