

HORTICULTURE & CROP PRODUCTION

Class: Senior Secondary School 1 (SS 1)

FIRST TERM (Weeks 1-12)

Week	Topic	Sub-topics / Content	Remarks (Practical/Notes)
1	Introduction to Horticulture & Crop Production	Definition of horticulture; definition of crop production; difference between arable crops and horticultural crops	Speaker presentation, class discussion
2	Classification of Crop Plants & Horticultural Crops	Classification by uses (food, fibre, industrial); by life cycle (annual, biennial, perennial); by morphology (roots, tubers, vegetables, fruits)	Use samples/seeds for illustration
3	Importance of Crop Production & Horticulture	Economic importance, nutritional importance, employment, environment	Group activity: list local horticultural crops
4	Site Selection & Land Preparation for Crop and Horticultural Production	Factors affecting site selection: soil, climate, water; methods of land clearing and preparation	Practical: inspect farm land or school garden
5	Propagation Methods for Horticultural Crops	Seed propagation, vegetative propagation (cuttings, grafting, layering)	Demonstration of one method
6	Seed, Seedlings and Nursery Establishment	Raising seedlings, nursery beds, potting medium, care of seedlings	Practical: raise seedlings in nursery tray
7	Crop and Horticultural Cultural Practices	Planting, spacing, thinning, irrigation, fertilising	Practical work in field/plot
8	Fertilizer and Manure Use in Crop and Horticultural Production	Types of fertilisers, organic manure, correct application	Assignment: research local organic manure sources
9	Weed, Pest and Disease Control in Crops & Horticulture	Common weeds, pests and diseases; control methods (cultural, chemical, biological)	Practical: identify weeds/pests/lesions
10	Harvesting and Post-Harvest Handling of Crops and Horticultural Produce	Harvesting timing, methods, storage, processing, value-addition	Visit or video on post-harvest handling
11	Marketing, Processing and Storage of	Market channels, packaging, storage facilities, value chain	Class discussion: local market survey

Week	Topic	Sub-topics / Content	Remarks (Practical/Notes)
	Horticultural and Crop Products		
12	Revision and Assessment	Review of all topics above; test/quiz practical evaluation	End-term practical/project submission

SECOND TERM

Week	Topic	Sub-topics / Content	Remarks
1	Vegetable Crop Production	Types of vegetable crops; site, soil, climate; cropping patterns	Practical: choose a vegetable for school garden
2	Fruit Crop Production	Types of fruit crops, site requirements, propagation, management	Case study: local fruit tree
3	Root and Tuber Crop Production	Examples (cassava, yam, sweet potato), land prep, planting, harvest	Practical: observe tuber crop plot
4	Fiber and Industrial Crop Production	Cotton, sugar-cane, etc; uses, production; environmental requirements	Assignment: local industrial crop research
5	Ornamental Horticulture	House plants, hedges, lawns; importance, design principles	Practical: design small hedge/flower bed
6	Landscaping and Garden Layout	Principles of landscape design, components (beds, borders, lawns)	Practical: sketch school garden layout
7	Sustainable Crop & Horticultural Practices	Crop rotation, inter-cropping, organic farming, conservation agriculture	Class debate: benefits of sustainable farming
8	Seed Production and Quality Control	Seed sources, storage, certification, quality attributes	Practical: examine seed sample quality
9	Irrigation and Drainage in Crop & Horticulture	Types of irrigation, drainage systems, water management	Visit or demonstration of irrigation setup
10	Farm Records and Farm Business Management in Horticulture & Crops	Farm budgeting, records, enterprise planning, marketing plan	Assignment: draft simple enterprise budget
11	Entrepreneurial Opportunities in Crop & Horticulture Production	Value-added products, agribusiness, career paths	Guest speaker or video on agribusiness

Week	Topic	Sub-topics / Content	Remarks
12	Revision and Assessment	Review second-term topics; test and practical assessment	End-term practical/project submission

THIRD TERM

Week	Topic	Sub-topics / Content	Remarks
1	Mechanization and Tools in Crop & Horticulture Production	Farm tools and equipment, maintenance, mechanized operations	Practical: demonstration of simple tool use
2	Post-Harvest Value Addition and Processing	Drying, packaging, storage, product development (juices, preserves)	Practical: value-addition demonstration
3	Crop Marketing and Export Opportunities	Domestic and export markets, standards, value chain, agritourism	Assignment: local export crop research
4	Agricultural Policy, Legislation and Environmental Issues in Crop & Horticulture	Legislative framework, environment impact, climate change	Class discussion: policy and environment
5	Research and Innovation in Crop & Horticulture Production	New varieties, biotechnology, precision farming, urban horticulture	Project: research mini-topic and presentation
6	Risk Management and Safety in Crop & Horticulture Production	Farm safety, chemical handling, weather risks, insurance	Practical: safety demonstration
7	Review of Selected Case Studies in Crop and Horticulture Enterprises	Successful farms, agribusiness models, lessons learned	Group presentation: case study report
8	Practical Farm Work & Field Trip	On-site practical, visit to commercial horticulture/crop farm	Field work: record observations
9	Project Work Submission and Presentation	Students present their chosen project (garden plot, vegetable enterprise, etc)	Presentation: show work and evaluate
10	Revision of Entire Course	Cover first to third term topics; major themes	Review session
11	Mock Examination (Theory & Practical)	Theory test + practical assignment	Conduct mock exam
12	End-of-Session Examination & Practical Evaluation	Formal assessment of theory and practical	Final evaluation

HORTICULTURE AND CROP PRODUCTION – SS2

FIRST TERM (Weeks 1–12)

Week	Topic	Sub–Topics / Content	Remarks
1	Revision of SS1 Work	Review of horticulture basics, propagation, and nursery practices.	Class discussion / quiz.
2	Crop Ecology	Meaning of crop ecology; ecological factors affecting crop production (climate, soil, topography, biotic factors).	Use local examples.
3	Soil Science in Crop Production	Soil formation, types, composition, soil fertility, and conservation practices.	Practical: soil texture test.
4	Tillage and Land Preparation	Meaning, objectives, and methods of tillage; types of implements used.	Practical: use hoe, cutlass, ridger.
5	Planting Operations	Definition, methods (direct seeding, transplanting), spacing, depth, and seed rate.	Demonstration on field.
6	Cultural Practices in Crop Production	Thinning, weeding, pruning, mulching, irrigation, staking.	Practical: perform simple field operations.
7	Water and Irrigation Management	Importance of water; irrigation types – surface, sprinkler, drip, and subsurface.	Field visit or demo.
8	Crop Nutrient and Fertilizer Application	Types of fertilizers, organic and inorganic; application methods and timing.	Practical: applying fertilizer.
9	Crop Protection (Pests)	Types of pests (insects, rodents, birds); effects and control methods.	Observation of damaged crops.
10	Crop Protection (Diseases)	Types, causes (fungi, bacteria, virus), symptoms, and control.	Practical: identify disease symptoms.
11	Weed Management	Definition, types, effects, control methods (mechanical, cultural, chemical).	Weed identification practical.
12	Revision & Assessment	Review of the term’s topics; quiz/test.	End-of-term test.

SECOND TERM

Week	Topic	Sub–Topics / Content	Remarks
1	Crop Improvement	Meaning, aims, and methods of crop improvement (selection, hybridization, mutation).	Use crop samples for examples.
2	Seed Technology	Meaning, seed production, testing, certification, and storage.	Practical: test seed viability.
3	Cereal Crop Production (Maize, Rice, Millet)	Land prep, planting, weeding, harvesting, storage.	Field practice with maize.
4	Legume Crop Production (Cowpea, Groundnut, Soybean)	Planting, care, and uses.	Observe legume plot.
5	Root and Tuber Crop Production (Yam, Cassava, Potato)	Soil requirement, planting materials, harvest, processing.	Visit a local cassava farm.
6	Oil Crop Production (Palm, Coconut, Sesame)	Growing conditions, uses, and by-products.	Use samples for illustration.
7	Fruit Crop Production (Mango, Pineapple, Citrus)	Propagation, orchard management, pruning, and harvesting.	Visit orchard if possible.
8	Vegetable Production (Tomato, Pepper, Okra, Amaranthus)	Nursery establishment, transplanting, irrigation, harvesting.	Class practical in school garden.
9	Spice and Beverage Crop Production (Ginger, Cocoa, Coffee)	Cultivation requirements, harvest, and processing.	Sample demonstration.
10	Harvesting, Processing, and Storage Techniques	Tools, post-harvest losses, preservation methods.	Demonstrate drying and storage.
11	Marketing and Distribution of Crop Products	Channels, packaging, pricing, record keeping.	Case study of local market.
12	Revision & Test	Review all topics covered in term.	End-of-term exam.

THIRD TERM

Week	Topic	Sub–Topics / Content	Remarks
1	Crop Rotation and Cropping Systems	Monocropping, mixed cropping, intercropping, rotation patterns.	Practical: draw rotation plan.
2	Greenhouse and Protected Crop Production	Meaning, benefits, simple structures, management.	Show pictures/videos.
3	Hydroponics and Urban Horticulture	Meaning, techniques, advantages, challenges.	Demonstration using plastic container.

Week	Topic	Sub-Topics / Content	Remarks
4	Farm Power and Machinery	Types of power sources; simple machines (plough, harrow, planter).	Identify tools in workshop.
5	Agricultural Safety and Maintenance	Farm safety, protective clothing, maintenance routines.	Practical safety demonstration.
6	Entrepreneurship in Crop Production	Starting small-scale enterprise: budgeting, packaging, marketing.	Group project.
7	Project Work / Field Practice	Crop production project (vegetable, root, or cereal).	Field supervision.
8–12	Revision and Examination	General review and practical examination.	End-of-session exams.

HORTICULTURE AND CROP PRODUCTION – SS3

FIRST TERM (Weeks 1–12)

Week	Topic	Sub-Topics / Content	Remarks
1	Revision of SS2 Work	Quick review of crop production, improvement, and protection.	Oral review.
2	Ornamental Plants and Landscaping	Types, importance, principles of landscaping, design of home gardens.	Practical sketch of school garden.
3	Nursery and Ornamental Plant Management	Planting, watering, transplanting, pruning, potting.	Practical in flower garden.
4	Lawn Establishment and Maintenance	Lawn grasses, establishment, mowing, and care.	Demonstration using grass plot.
5	Floriculture (Flower Production)	Types of flowers, propagation, arrangement, and marketing.	Flower arrangement demonstration.
6	Urban and Indoor Horticulture	Indoor plants, vertical gardens, roof-top gardens.	Practical: create mini indoor plant pot.
7	Harvesting and Handling of Horticultural Crops	Post-harvest handling, grading, packaging.	Practical packaging session.
8	Processing and Preservation of Horticultural Produce	Canning, drying, refrigeration, juicing, jam-making.	Demonstration.
9	Marketing of Horticultural Products	Market channels, pricing, record keeping, branding.	Role-play exercise.
10	Agricultural Extension and Communication	Meaning, importance, methods of information dissemination.	Class discussion.
11	Record Keeping and Farm Accounts	Importance, types of records, budgeting.	Practical: simple farm record sheet.

Week	Topic	Sub-Topics / Content	Remarks
12	Revision & Test	Review and quiz.	End-of-term test.

SECOND TERM

Week	Topic	Sub-Topics / Content	Remarks
1	Crop Enterprise Planning and Management	Planning, resource allocation, labour, budgeting.	Practical enterprise plan.
2	Farm Mechanization in Crop and Horticultural Enterprises	Farm tools, machinery, and mechanized operations.	Identify implements.
3	Agro-Processing and Value Addition	Processing of fruits, vegetables, grains into marketable products.	Practical processing demonstration.
4	Storage and Preservation of Farm Produce	Storage methods: cold room, silo, barn, drying.	Visit local storage facility.
5	Packaging, Branding and Marketing Strategies	Labeling, design, customer attraction.	Group design project.
6	Export Crop Production and Standards	Quality control, export documentation, global market requirements.	Research assignment.
7	Farm Records, Accounts and Financial Management	Profit and loss, capital investment, credit management.	Spreadsheet practice.
8	Occupational Health and Safety in Crop Production	Chemical handling, equipment safety, first aid.	Demonstration with PPE.
9	Environmental Management and Sustainability	Climate-smart agriculture, waste management.	Discussion/debate.
10	Review and Field Project Work	School garden or crop enterprise project.	Project supervision.
11-12	Revision and Assessment	Review all topics, conduct test.	End-of-term exam.

THIRD TERM

Week	Topic	Sub-Topics / Content	Remarks
1	Agribusiness and Career Opportunities	Careers in crop and horticulture, entrepreneurship, cooperative farming.	Guest speaker session.
2	Farm Project Implementation and Management	Supervised project work – cultivation, records, evaluation.	Practical.

Week	Topic	Sub–Topics / Content	Remarks
3	Presentation of Project Work	Students present practical project findings.	Graded presentation.
4	Modern Trends in Crop and Horticulture Production	Greenhouse tech, precision agriculture, ICT in farming.	Internet research presentation.
5	Revision of Past Questions (WAEC/NECO)	Review and practice questions.	Classwork.
6–12	Final Revision and Examination	Comprehensive exam and practical evaluation.	Final assessment.
