

Reduced Syllabus of Vocation Subject Class X: 2020-21

Sector- Agriculture, Job-Role: SOLANACEOUS CROP CULTIVATOR

Sl. No	Theory	Omitted Topics	Reasons
Unit-1: Irrigation Management in Vegetable Crops	<ul style="list-style-type: none"> • Irrigation and micro-irrigation • Quality of irrigation water • Quantity of water required for the specific crop and its affect on its yield • Frequency of irrigation required at various stage of plant growth • Characteristics of good irrigation systems • Different types of irrigation system available • Quantity of water required for the specific crop and its affect on its yield • Frequency of irrigation required at various stage of plant growth • Various types of micro irrigation equipments to be used (mistlers, drippers, sprinklers, foggers, etc) • Relative advantages and disadvantages of irrigation equipments • Suitability of different methods of irrigation • Advantage and disadvantage of methods of irrigation • Critical stages of irrigation in vegetable crops • Selection of the best time of the 	<ul style="list-style-type: none"> • Visit to an agricultural farm and identify the various types of irrigations systems • Interact with micro irrigation expert and get feedback on the usage of specific applicable irrigation methods to be adopted at the farm 	<p>Due to Covid - 19 lockdown visit is not possible as per Govt circular</p>

	day to irrigate the crops		
Unit 2: Weed Control and Management in Vegetable Crops	<ul style="list-style-type: none"> • Define weeds • Major weeds of Vegetable crops • 1.. Types of weed and their efficient control methods • Advantages and disadvantages of weeding methods (herbicide & mechanical) • Critical stages of weed control (first weeding time) • Use of different methods to control weeds such as plastic mulch • Procedures involved in soil solarization 	<ul style="list-style-type: none"> • Various types of Weed (broadleaf, grass weed etc) • Demonstration of procedure for controlling weeds through application of physical, cultural, biological and chemical methods 	<p>Topics will already be covered in principles of weed control chapter</p> <p>Topics will already be covered in principles of IPM chapter</p>
Unit-3: Integrated Pest and Disease Management in Vegetable Crops	<ul style="list-style-type: none"> • Importance of safe production and safe produce • Advantages of natural enemies • Common diseases of vegetable crops and control measures • Describe pesticides and its uses • Use of resistant varieties • Various mechanical control- traps, sticky plates etc) • Advantages of biological control of insects, pest & diseases • Handling tools and equipment • National and international standards on pesticide residues 	<ul style="list-style-type: none"> • 1.Visit to a vegetable farm/field and Identify early symptoms of various types of diseases • 2. Demonstration of pruning of the diseases affected plant part • 3. Vegetable crop growing conditions (soil conditions, temperature etc) 	<p>Due to Covid - 19 lockdown visit is not possible as per Govt notice</p> <p>Topics will already be covered in principles of IPM chapter</p>

<p>Unit 4: Harvest and Post Harvest Management in Solanaceous Crop</p>	<ul style="list-style-type: none"> • Define harvesting indices • Differentiate between maturity and ripening • Differentiate between climacteric and non-climacteric • Types of maturity indices (physical and chemical) • Harvesting the Solanaceous crop at right Stage • Methods of harvesting • Tools and container used for harvesting • Time of harvesting • Precaution taken during harvesting • Harvesting based on demand of type in the market (in case of tomatoes) • Ideal time of harvest (climatic conditions, distance from the market) • Proper harvesting methods • Grading of crop based on size, color and quality • Packaging of crop with appropriate material and method • Ideal storage condition (temperature, moisture, etc) • Market rates of the crop 	<ul style="list-style-type: none"> • select right time of Harvesting given crops • Identified climacteric and non-climacteric Vegetable • Picked the vegetable as per harvesting standards • Demonstrate the use of harvesting tools • Coordinate and negotiate with procurement assistant of the buyer for best price 	<p>Topics will already be covered in principles of theory part.</p>
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Unit 5: Occupation Health, Hygiene and First Aid Practices	The whole unit has been deleted	Whole unit deleted	Already covered in class IX
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Sector- Agriculture, Job-Role: SOLANACEOUS CROP CULTIVATOR

Unit	Practical Topic
Unit-1: Irrigation Management in Vegetable Crops	<ul style="list-style-type: none"> • Enlist the different qualities of irrigation water • Ensure appropriate water supply at various life stages of the crop as per each stage requirement ● Enlist the different components of drip irrigation system
Unit 2: Weed Control and Management in Vegetable Crops	<ul style="list-style-type: none"> • Enlist the major weeds found in your school campus • Identify the types of weed in the vegetable crops
Unit-3: Integrated Pest and Disease Management in Vegetable Crops	<ul style="list-style-type: none"> • Identify types of pests (cutworm, nematode, leaf miner fly, potato tuber moth, aphid) in vegetable crops • Identify stages of crop and pest incidence • Diagnose symptoms and extent of damage • Understand natural enemies of the pest such as lady bird, ground beetles, • Understand the different mode of transmissions of disease from implements, vectors, water, rain, wind • Enlist the types of biological, mechanical and chemical measures of disease control
Unit 4: Harvest and Post Harvest Management in Solanaceous Crop	<ul style="list-style-type: none"> • Identify tools and implement used in harvesting • Properly harvesting vegetable of given crops • Harvest the crop at appropriate stage

Unit 4: Harvest and Post management in SC

- Harvest the crop at right time
- Harvest the crop based on use and distance from the market
- Identify the appropriate harvesting method
- Undertake grading of the crops
- Undertake packing of the crops
- Maintain ideal storage condition
- Identify the right market for sale of produce
- Analyze the right time for sale considering the periodical demand for the produce