## **Reduced Syllabus of Vocation Subject Class X: 2020-21**

## Sector- Agriculture, Job-Role: SOLANACEOUS CROP CULTIVATOR

Sl. No	Theory	<b>Omitted Topics</b>	Reasons
Unit-1: Irrigation Management in Vegetable Crops	<ul> <li>Irrigation and micro-irrigation</li> <li>Quality of irrigation water</li> <li>Quantity of water required for the specific crop and its affect on its yield</li> <li>Frequency of irrigation required at various stage of plant growth</li> <li>Characteristics of good irrigation systems</li> <li>Different types of irrigation system available</li> <li>Quantity of water required for the specific crop and its affect on its yield</li> <li>Frequency of irrigation required at various stage of plant growth</li> <li>Vauntity of water required for the specific crop and its affect on its yield</li> <li>Frequency of irrigation required at various stage of plant growth</li> <li>Various types of micro irrigation equipments to be used (misters, drippers, sprinklers, foggers, etc)</li> <li>Relative advantages and disadvantages of irrigation equipments</li> <li>Suitability of different methods of irrigation</li> <li>Advantage and disadvantage of methods of irrigation</li> <li>Critical stages of irrigation in vegetable crops</li> <li>Selection of the best time of the</li> </ul>	<ul> <li>Visit to an agricultural farm and identify the various types of irrigations systems</li> <li>Interact with micro irrigation expert and get feedback on the usage of specific applicable irrigation methods to be adopted at the farm</li> </ul>	Due to Covid - 19 lockdown visit is not possible as per Govt circular

	day to irrigate the crops		
Unit 2: Weed Control and Management in Vegetable Crops	<ul> <li>Define weeds</li> <li>Major weeds of Vegetable crops</li> <li>1 Types of weed and their efficient control methods</li> <li>Advantages and disadvantages of weeding methods (herbicide &amp; mechanical)</li> <li>Critical stages of weed control (first weeding time)</li> <li>Use of different methods to control weeds such as plastic mulch</li> <li>Procedures involved in soil solarization</li> </ul>	<ul> <li>Various types of Weed (broadleaf, grass weed etc)</li> <li>Demonstration of procedure for controlling weeds through application of physical, cultural, biological and chemical methods</li> </ul>	Topics will already be covered in principles of weed control chapter Topics will already be covered in principles of IPM chapter
Unit-3: Integrated Pest and Disease Management in Vegetable Crops	<ul> <li>Importance of safe production and safe produce</li> <li>Advantages of natural enemies</li> <li>Common diseases of vegetable crops and control measures</li> <li>Describe pesticides and its uses</li> <li>Use of resistant varieties</li> <li>Various mechanical control- traps, sticky plates etc)</li> <li>Advantages of biological control of insects, pest &amp; diseases</li> <li>Handling tools and equipment</li> <li>National and international standards on pesticide residues</li> </ul>	<ul> <li>1.Visit to a vegetable farm/field and Identify early symptoms of various types of diseases</li> <li>2. Demonstration of pruning of the diseases affected plant part</li> <li>3. Vegetable crop growing conditions (soil conditions, temperature etc)</li> </ul>	Due to Covid - 19 lockdown visit is not possible as per Govt notice Topics will already be covered in principles of IPM chapter

Unit 4: Harvest and Post Harvest Management in Solanaceous Crop	<ul> <li>Define harvesting indices</li> <li>Differentiate between maturity and ripening</li> <li>Differentiate between climacteric and non-climacteric</li> <li>Types of maturity indices (physical and chemical)</li> <li>Harvesting the Solanaceous crop at right Stage</li> <li>Methods of harvesting</li> <li>Tools and container used for harvesting</li> <li>Time of harvesting</li> <li>Precaution taken during harvesting</li> <li>Harvesting based on demand of type in the market (in case of tomatoes)</li> <li>Ideal time of harvest (climatic conditions, distance from the market)</li> <li>Proper harvesting methods</li> <li>Grading of crop based on size, color and quality</li> <li>Packaging of crop with appropriate material and method</li> <li>Ideal storage condition (temperature, moisture, etc)</li> <li>Market rates of the crop</li> </ul>	<ul> <li>select right time of Harvesting given crops</li> <li>Identified climacteric and non- climacteric Vegetable</li> <li>Picked the vegetable as per harvesting standards</li> <li>Demonstrate the use of harvesting tools</li> <li>Coordinate and negotiate with procurement assistant of the buyer for best price</li> </ul>	Topics will already be covered in principles of theory part.

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## **Reduced Syllabus of Vocation Subject Class X: 2020-21**

## Sector- Agriculture, Job-Role: SOLANACEOUS CROP CULTIVATOR

Unit	Practical Topic
Unit-1: Irrigation Management in Vegetable Crops	<ul> <li>Enlist the different qualities of irrigation water</li> <li>Ensure appropriate water supply at various life stages of the crop as per each stage requirement</li> </ul>
	• Enlist the different components of drip irrigation system
Unit 2: Weed Control and Management in Vegetable Crops	<ul> <li>Enlist the major weeds found in your school campus</li> <li>Identify the types of weed in the vegetable crops</li> </ul>
Unit-3: Integrated Pest and Disease Management in Vegetable Crops	<ul> <li>Identify types of pests (cutworm, nematode, leaf miner fly, potato tuber moth, aphid) in vegetable crops</li> <li>Identify stages of crop and pest incidence</li> <li>Diagnose symptoms and extent of damage</li> <li>Understand natural enemies of the pest such as lady bird, ground beetles,</li> <li>Understand the different mode of transmissions of disease from implements, vectors, water, rain, wind</li> <li>Enlist the types of biological, mechanical and chemical measures of disease control</li> </ul>
Unit 4: Harvest and Post Harvest Management in Solanaceous Crop	<ul><li>Identify tools and implement used in harvesting</li><li>Properly harvesting vegetable of given crops</li></ul>
	• Harvest the crop at appropriate stage

	• Harvest the crop at right time
Unit 4: Harvest and Post management in SC	• 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