

Reduced Syllabus of Vocation Subject Class IX: 2020-21

Sector- Agriculture, Job-Role: SOLANACEOUS CROP CULTIVATOR

Sl. No	Theory	Deleted Topics	Reasons
Unit 1: Introduction to Horticulture	<ul style="list-style-type: none"> • Define Horticulture • Importance of horticulture in daily life • Branches of horticulture • Different horticultural crops and their major growing regions in India • Horticultural operations viz. training, pruning and transplanting • Olericulture • Importance of vegetable in human diet 	<ul style="list-style-type: none"> • Prospects of Horticulture in India • Visit to a nursery/ Horticulture farm for Demonstration of pruning, Training and transplanting of seedlings • Practice of pruning 	<p>Topic will already be covered in Importance of Horticulture chapter</p> <p>Due to Covid - 19 lockdown visit is not possible as per Govt.circular</p>
Unit 2: Seed Selection and Seedling Production	<ul style="list-style-type: none"> • Various characteristics of seed with their suitability to the location • Characteristics of healthy varieties • Demand of various varieties in the market • Preparing the site for seed bed • Soil sterilization – solarisation and chemical treatment • Seed treatment techniques with chemicals • Factors affecting seed germination – seed viability, seed pests and diseases, etc. 	<ul style="list-style-type: none"> • Demonstration of the procedure of preparation of various types of seed beds – raised, sunken, level • Planting seeds in the poly bags/trays to aid in the cultivation of Solanaceous crops • Counting the number of seeds that have germinated so as 	<p>Due to class suspension at school level and time factor</p>

	<ul style="list-style-type: none"> • Factors to be considered while planting seeds on seed bed and polybags/ trays – time, depth, etc. • Advantages and disadvantages of soil nursery or tray method • Depth and spacing of planting seedlings in case of soil nursery & tray for Solanaceous crops 	to assess mortality rate	
Unit 3: Soil Preparation and Transplanting in Solanaceous Crops	<ul style="list-style-type: none"> • Importance of Soil testing • Various authorized centers of soil testing • Level of soil tillage including depth of ploughing and appropriate equipments for plugging • Distance between ridges and furrows • Requirement of farm yard manure and fertilizer in appropriate quantity • Appropriate time for planting by taking in to account of soil, climatic conditions • Planting equipments (shovel or trowel) • Spacing between rows and plants • Advantages and disadvantages of intercropping and types of plant to be intercropped • Advantages of crop rotation 	<ul style="list-style-type: none"> • Prepare the land with ridges and furrows • Application of farm yard manure and fertilizers • Demonstration Transplanting of seedling at appropriate stage and spacing 	Practical is not possible due shortage of time in amid covid-19 lockdown

<p>Unit 4: Soil Nutrient Management in Vegetable Crops</p>	<ul style="list-style-type: none"> • Elements / components under macro & micro nutrients • Function of each macro & micro nutrient • Advantages & disadvantages of particular macro & micro nutrients • Types of organic manures (farm yard manure, compost, green manure, vermicompost), fertilizers and biofertilizers • Methods of application of manures, fertilizers and biofertilizers • Time of application of manures, fertilizers and biofertilizers 	<ul style="list-style-type: none"> • Understand the basic macro & micro nutrients with their functions • Undertake testing of soil to determine its nutrient and fertilizer needs from authorized laboratory • Collect soil testing report • Visit to a Vegetable farm for applying manures and fertilizers as per the recommended dose to various vegetables 	<p>Will be covered at classification</p> <p>Already covered at unit 3.</p> <p>Due to Covid - 19 lockdown visit is not possible as per Govt.circular</p>
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Unit	Practical Topic to be covered
Unit 1: Introduction to Horticulture	<ul style="list-style-type: none">• Enlist the major horticultural crops in India and your locality• Draw a diagram depicting the classification of horticultural crops• Demonstrate the availability of nutrients through vegetables• using charts/pictures
Unit 2: Seed Selection and Seedling Production	<ul style="list-style-type: none">• Identify various and appropriate variety (including hybrid) of Solanaceous crops• Identify various vendors / suppliers (including government nurseries /department) of the seed that are certified• Procure seeds in appropriate quantity• Identify market rates for Solanaceous crop seeds (such as tomato, capsicum,)• Estimating how much seed is required to grow a given number of area for each crop• Identify soil nursery or tray method for growing seedlings• Plant the seed at correct depth and appropriate spacing• Water the seedling at appropriate time with appropriate method
Unit 3: Soil Preparation and Transplanting in Solanaceous Crops	<ul style="list-style-type: none">• Enlist the authorised soil testing centres in your state.