

GOVERNMENT DEGREE COLLEGE, RAVULAPALEM

THE DEPARTMENT OF HORTICULTURE

COURSE OBJECTIVES OF HORTICULTURE

FOR

THE ACADEMIC YEARS 2020-2021 TO 2022-2023

S.No	Semester	Name of the Course	Course Outcomes
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ECONOMICS			
01	I	Fundamentals of horticulture plants and soil science	<p>After Completion of this course the student would be able to:</p> <p>CO1:Understand the scope and potential of horticulture products in India and Andhra Pradesh.</p> <p>CO2:Classify the horticulture plants based on soil and climate.</p> <p>CO3: Illustrate different systems of planting in an orchard and predict the number of plants in a given land.</p> <p>CO4: Demonstrate the methods and types of training and pruning.</p> <p>CO5; Explain the basics of soil science and justify the role of soil as a medium for plant growth</p> <p>CO6:Explain about integrated nutrient management and demonstrate the skills of soil testing.</p>
02	II	Plant propagation and nursery management	<p>After Completion of this course the student would be able to:</p> <p>CO1:Explain sexual and asexual propagation methods of plants.</p> <p>CO2: Demonstrate skills on vegetative propagation of plants.</p> <p>CO3:Demonstrate the techniques on raising of different types of nursery beds</p> <p>CO4: Justify the role of various propagation structures used to raise horticulture plants.</p> <p>CO5: Understand the regulation to establish a plant nursery and quality parameters to be maintained.</p>

			<p>CO6:Implement different routine/regular activities in a nursery.</p> <p>CO7:Understand the economics of a plant nursery and can maintain necessary record</p>
03	III	Olericulture	<p>After Completion of this course the student would be able to:</p> <p>CO1: Distinguish the growing of vegetables according to season and climate</p> <p>CO2:Get detailed knowledge on cultivation aspects of different vegetables</p> <p>CO3:Understand and explain the special intercultural operations done in vegetable crops</p> <p>CO4: Study of morphology and taxonomy of different vegetable crops</p> <p>CO5:Study of different varieties of vegetable crops</p> <p>CO6:Identify the diseases and pests of vegetable crops and their management</p>

04	IV (A)	Pomology	<p>After Completion of this course the student would be able to:</p> <p>CO1: Realize the value of fruits in terms of human nutrition and economy of nation.</p> <p>CO2: Explain the potential fruit zones in various states of our country.</p> <p>CO3: Classify the fruiting plants based on temperature requirements.</p> <p>CO4: Acquire knowledge related to various cultivation practices for different fruit crops</p> <p>CO5: Demonstrate the special intercultural operations done in fruit crops</p> <p>CO6: Comprehend the knowledge on varieties of different fruit crops.</p> <p>CO7: Examine the pests and diseases of fruit crops and develop skills to manage the same,</p> <p>CO8: Explain about Integrated Orchard Management</p> <p>CO9: Develop knowledge on various entrepreneurial skills related to fruit science.</p>
05	IV(B)	Pests and diseases of horticulture plants and their management	<p>After Completion of this course the student would be able to:</p> <p>CO1: Develop a critical understanding of insect pests and plant disease symptoms.</p> <p>CO2: Examine and identify the pests and diseases of vegetable crops and their management</p> <p>CO3: Examine and identify the pests and diseases of ornamental crops and their management</p> <p>CO4: Examine and identify the pests and diseases of fruit crops and their management</p> <p>CO5: Identify and classify various insect pests on horticulture plants.</p> <p>CO6: Justify the significance of Integrated Plant Disease Management for horticultural crops.</p> <p>CO7: Classify the pesticides based on use, chemical nature, formulation, toxicity and action.</p>

06	V (A)	PRINCIPLES OF SEED TECHNOLOGY	<p>After Completion of this course the student would be able to:</p> <p>CO1: understand the concepts of quality seed production of different field and vegetable crops</p> <p>CO2. study about different classes of seed and maintenance of genetic purity during seed production</p> <p>CO3. Learn about seed certification procedure, seed drying, processing, cleaning, testing, packaging, storage, marketing etc.</p>
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07	V (B)	POST HARVEST TECHNOLOGY OF HORTICULTURAL CROPS	<p>After Completion of this course the student would be able to:</p> <p>CO1: Understand the basic concepts in post-harvest handling of horticulture produce.</p> <p>CO2. Explain maturity and harvesting indices of horticulture products.</p> <p>CO3. Acquire skills on identifying factors for post-harvest losses in horticulture.</p> <p>CO4. Perform managerial skills related to storage of horticulture products.</p> <p>CO5. Demonstrate skills on packaging and forwarding horticulture products to market.</p>