

SIXTH SEMISTER
VIII-PAPER-III -(THEORY SYLLABUS)
CLUSTER SYSTEM
CONDIMENTS AND BIO FERTILIZERS IN HORTICULTURE

UNIT-I:

Ginger: Botany, origin, introduction, varieties, propagation, climate, soil, preparation of land, planting season, seed rate, spacing, mulching, irrigation, manuring, intercultural operation, harvesting and processing, preservation of seed material.

Turmeric: Introduction, scope and importance, Botany, area and production, used, export potential, varieties, soil and climate, propagation, preservation of seed rhizome, selection of land and preparation, methods of cultivation like bed system, ridge and furrow system, planting, seasons, seed rate, spacing, mulching, irrigation, nutrient management, weeding and intercropping, shade provision, cropping system like intercropping, harvesting, indices, yield, postharvest technology.

UNIT-II

Cumin: Importance, Botany, varieties, climate and soil, cultivation, irrigation, manuring and fertilization, harvesting and postharvest management.

Fenugreek: Botany, plant parts used origin and distribution, varieties, climate, soil, preparation of land, seasons, seed and sowing, irrigation, manuring intercultivation, harvesting and yield of the following crops.

UNIT-III

Ajwan (Vamu): Importance, Botany, varieties, climate and soil, cultivation, irrigation, manuring and fertilization, harvesting and postharvest management.

Coriander: Botany, plant parts used origin and distribution, varieties, climate, soil, preparation of land, seasons, seed and sowing, irrigation, manuring intercultivation, harvesting and yield of the following crops.

UNIT-IV

Importance of Bio Fertilizers in Horticulture and study of Nitrogen Fixation Bio fertilizers

- (a) Rizobium b) Azotobacter c) Azospyrillum d) Azolla e) Acetobacter
f)Prankie g) Cyanobacteria

UNIT-V

Importance and study of phosphorous, potassium and zinc solubilizing and mobilizing Biofertilizers.

Study of methods of Applications of Bio fertilizers in Horticulture crops.


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