



DEPARTMENT OF BOTANY

MORIGAON COLLEGE

MORIGAON, ASSAM

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ADD ON CERTIFICATE COURSE

COURSE TITLE: HORTICULTURE

PAPER CODE: ADC-BOT-03

Total: 50 (20+20+10)

COURSE OUTCOMES

On completion of the course the students will be able to

- Understand the scope and importance of horticulture, division of horticulture, classification of horticultural plants.
- Understand the relation between horticulture, economy and environment.
- Identify different tools and equipment used in horticultural techniques.
- Propagate and manage plants and establish nursery.
- Know different types of plant hormones and their actions.
- Identify different fertilizers and utilize green manuring and organic fertilizers.

THEORY (20 marks)

Unit I:

Introduction to Horticulture: Prospects and scopes of horticulture in Assam. Identification of plants and plant parts used in horticulture.

Unit II:

Nursery: Components, Raising and Management; Vegetable Gardening; Orchard: Planning and layout; Ornamental Horticulture (Outdoor gardening); Indoor Gardening; Bonsai; Hydroponics.

Unit III:

Plant Propagation: Definition, Sexual and Asexual methods, Cutting, Layering, Grafting, Budding; Tools and Equipments used in Horticulture.

Unit IV:

Plant Growth Hormones: Auxins, Gibberelins, Cytokinins, Ethylene, Absciscic acid; Their roles and practical applications in horticultural techniques.

Dr. Arun
HEAD
Department of Botany
Morigaon College

Unit V:

Manures and Fertilizers: Bio fertilizers, Green manures; Vermicompost.

PRACTICALS (20 Marks)

1. Study of tools and equipment implemented in Horticulture
2. Preparation and Layout of Nursery beds
3. Sexual propagation of plants
4. Practicing asexual propagation methods- Cutting, Layering, Budding, Grafting
5. Application of Growth Regulators

Field trip (10 Marks)

- Visit to a commercial nursery/orchard in the locality

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