

**CERTIFICATE IN  
SCIENTIFIC TEA CULTIVATION AND  
PLANTATION MANAGEMENT  
BLOCK 1  
DETAILED SYLLABUS**

---

**UNIT 1: Introduction to Tea and its Cultivation:**

Beginning of tea cultivation in India, the tea plant and its cultivation, tea growing areas in India, small scale tea cultivation in Assam, tea cultivation in non traditional areas and other N.E.states, tea industry and its role in national economy, developmental agencies . 5

**UNIT 2: Soil and Climatic Requirements**

Soil requirements-physical, chemical and biological properties, land features slope, altitude and aspects, climatic requirements- rainfall, temperature, R.H., day length and wind velocity, selection of sites for tea, soil and water conservation. 10

**UNIT 3: Planting Materials of Tea**

Planting materials-clone, clonal seed, differences between clone and clonal seeds, choice of planting materials, production of planting materials-clonal nucleus plot, tea seed barie. 15

**UNIT 4: Propagation and Nursery Techniques**

Seed propagation, vegetative propagation, tea nursery, nursery techniques for V.P. nursery techniques for seed propagation, nursery management. 15

**UNIT 5: Land Preparation and Planting**

Land preparation-land preparation in virgin, uprooted and marginal lands. Planting-age and size of plant, stacking, spacing, pit digging, planting time, after care, infilling, planting in undulating hilly areas-catchment planning. 15

**UNIT 6: Young Tea Management**

Objectives of training, frame formation-operations, methods of bringing up for plain areas of N.E. India and hilly areas, cultural practices adopted in young tea management. 15

**CERTIFICATE IN  
SCIENTIFIC TEA CULTIVATION AND  
PLANTATION MANAGEMENT  
BLOCK 2  
DETAILED SYLLABUS**

---

**UNIT 1: Pruning of Tea**

Pruning- Objectives of pruning, skiffing, different types of pruning and skiffing, method of pruning, pruning cycle . 20

**UNIT 2: Plucking of Tea**

Objectives of Plucking, plucking-tipping, maintenance foliage, plucking systems, standard of plucking, plucking round, creep, breaking back, banjhi shoot, plucking baskets/ bag care and handling of green leaf 20

**UNIT 3: Weed Management**

Weeds in Tea plantation, weeds control methods-manual or mechanical, chemical control, Weed Control in Nursery, young tea areas and in mature tea 10

**UNIT 4: Tea Pests and Their Management**

Tea pests- leaf and shoot pests, stem and branch pests, other pests. Sprayers, and application of pesticides, - sprayers, target sites for application, integrated pest management 20

**UNIT 5: Tea diseases and their management**

Tea diseases- casual agencies and classification, common tea diseases, description of common tea diseases and their management, seedling diseases, primary and secondary diseases 15

**UNIT 6: Physiological disorders and cold weather operations**

Adverse climatic and soil conditions, external agencies, cold weather management. 5

**UNIT 6: Cost development of Tea Plantation and record keeping in Tea garden**

Cost development of Tea Plantation – requirement of labour, cost of labour and inputs, income, Record keeping-definition, good record keeping systems, branches of record keeping, books and accounts, information to be maintained in tea garden 10

**CERTIFICATE IN  
SCIENTIFIC TEA CULTIVATION AND  
PLANTATION MANAGEMENT  
PRACTICAL MANUAL  
BLOCK 3  
Detailed Syllabus**

---

UNIT 1: Land Preparation for Planting of Tea

UNIT 2: Planting of Tea

UNIT 3: Methods of Frame Formation in Tea

UNIT 4: Fertilizer Application in Young Tea

UNIT 5: Fertilizer Application in Mature Tea.

UNIT 6: Pruning and Skiffing of Mature Tea

UNIT 7: Tipping and Plucking of Tea

UNIT 8: Identification and Preparation of Herbarium of Weeds, Shade Tree Species,  
Rehabilitation Cover and Green Crops

UNIT 9: Visit to Commercial Tea Estates and Small Tea Garden