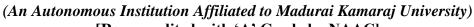


#### VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE







**Course Name: Master of Science** 

**Discipline** : Botany

**CHOICE BASED CREDIT SYSTEM** 

(For those who joined in June 2022 and after)

**Course Scheme:** 

**Self-Learning Course** 

Subject	Credit	Ext =Tot	Subject Code
Forestry	5	100 = 100	P19BYSL31/
			P22BYSL31

Course Name: Master of Science Discipline: Botany

Forestry (Self Learning)

Total Marks 100 Credit: 5 Subject Code: P19BYSL31/ P22BYSL31

**Objectives** 

1. Forestry in India is a significant rural industry and a major environmental resource.

- 2. Indian forests are more than trees and an economic resource.
- 3. They are home to some of earth's unique flora and fauna.

#### **UNIT I - SILVICULTURE**

Forests - Definition - Extent of forests in india and other countries - Role of forests - Factors of locality - climatic - edaphic - topographic - biotic - Interaction of Forests with the Environment. Silviculture - Objectives - Scope - General Principles - Regeneration - Natural and artificial - Nursery techniques and methods - maintenance.

### **UNIT II - FOREST UTILIZATION**

Logging - Extraction of timber - Felling rules and methods - Conversion methods - Transportation of timbers - Major and minor transportation methods - storage and sales of logs. Forest products - timber industries - plywood - particles boards - fibre products.

## **UNIT III – FOREST, POLICIES AND LEGISLATIONS**

General concept of tree improvement, methods and techniques, genetic testing programming, Forest Policy - Necessity - Formulation of National Forest Policy - History of Forest development in India - Indian Forest Policy of 1894, 1952 and 1988.

#### **UNIT IV - FOREST PROTECTION**

Role of Forest Protection in Indian Forestry - Injuries caused by various agencies - Injuries caused by human being - Animals - plants - Forest fire - Fire protection methods - Control measures for pest and diseases for major tree species - biological, chemical and integrated pest management methods. Role of human society in forest protection.



# VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

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[Re-accredited with 'A' Grade by NAAC]
Virudhunagar – 626 001.



# UNIT-V - AGROFORESTRY AND SOCIAL FORESTRY

Definition - Objectives of agroforestry - Classification of agroforestry systems - Ecological aspects of agroforestry. Social forestry - its components and implementation at local and national levels.

#### **REFRENCES:**

- 1. Sagreiya, K.P. Forests and Forestry, 1997. National Book Trust India
- 2. Khanna, L. S. 1984. Principles and Practice of Silviculture, Khanna Bhandu, Dehra Dun. P. 476.
- 3. Ram Prakash and L.S. Khanna. 1991. Theory and Practice of Silvicultural systems. International Book Distributors, Dehra Dun. 298p.
- 4. Dwivedi, A.P. 1993. A Text Book of Silviculture, International Book Distributors, Dehradun. 6. Dwivedi, A. P. 1992. Principles and Practice of Indian Silviculture, Surya Publication, 420p
- 5. FAO (1987), Forestry Extension Methods, SLNo. 80, FAO Publication, Caracall, Rome, Italy.
- 6. JHA, L.K. & SEN SARMA, P.K. (Eds)(1996), A manual of Forestry Extension Education, APH Publishing Corporation, New Delhi.

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