

FRST 201 - SOCIAL AND FARM FORESTRY (1+1)

1. Role of forests – productive role – food, fuel, clothing, shelter, timber and non- timber forest produce and protective role – climate amelioration, soil and water conservation, habitat for wildlife, purification of atmosphere.
2. Status of Indian forests – Comparison with other countries, National forest Policy, 1988
3. Agroforestry – definition – different terminologies – components – distinction between agroforestry and social forestry. Benefits and constraints of agroforestry
4. Classification of agroforestry systems on structural, functional, socio- economic and ecological basis
5. Agrisilvicultural systems – improved fallow species in shifting cultivation, taungya system, multi species tree garden, alley cropping, multi purpose trees and shrubs on farmlands, crop combinations with plantation crops, fuel wood plantations
6. Shelter belts, wind breaks, soil conservation hedges
7. Silvopastoral system – protein bank, live fence of fodder and hedges and trees and shrubs on pasture
8. Agrisilvipastoral systems – homestead, woody hedgerows for browse, mulch, green manure, soil conservation – other systems
9. Planning in agroforestry – Diagnosis and Design
10. Agroforestry systems for seven agro climatic zones in Tamil Nadu
11. Role of trees in soil fertility - Economics of agroforestry
12. Community forestry – evolution of social forestry concepts – Social forestry in Tamil Nadu, Interface forestry – JFM, TAP
13. Wasteland development – definition – extent and classification. Suitable trees for problem soils – planting technique for wastelands. Trees in soil and water conservation. Afforestation for sand dune stabilization, mine burden, coastal and hilly areas
14. Silvicultural practices for Teak, Eucalyptus and Tamarind
15. Silvicultural practices for Ailanthus, Neem, Pungam and Prosopis
16. Silvicultural practices for Casuarina Silk cotton, Acacias and Bamboos

REFERENCES

1. Avey, M.E., M.G.R. Cannel and C. Ong. 1991. **Biophysical research for Asian agroforestry**. Winrock International, USA & South Asia Books, USA.
292 p.

2. Bentley, W.R., P.K. Khosla and K. Secler. 1993. **Agroforestry in South Asia – Problems and applied research perspectives.** Oxford & IBH Publishing Co., New Delhi. 390 p.
3. Burch, W.R. and J.K. Parker. 1992. **Social science applications in Asian agroforestry.** Winrock International, USA & South Asia Books, USA. 187 p.
4. Dwivedi, A.P. 1992. **Principles and Practices of Indian Silviculture.** Surya publications, Dehradun.469p
5. Gupta.R.K 1993. **Multipurpose Trees for Agroforestry and Wasteland Utilization.** Oxford and IBH Publishing company , NewDelhi. 580p
6. Nair.P.K.R. 1993. **Introduction to agroforestry.** Kluwer Academic Publiskers, Dordrecht, Netherlands.499p
7. Negi,S.S. 1986. **A Hand book of Social Forestry.** International Book Distributors, Dehradun.177p
8. Prasad, V.N. 1985. **Principles of Social cum Community Forestry** International Book Distributors, Dehradun.108p
9. Prasad, R and Bhatnagar, P. 1995. **Social Forestry Experiences over a Decade.** International Book Distributors, Dehradun.229p
10. Puri,S and Khosla P.K. 1993. **Nursery Technology for Agroforestry-applications in Arid and Semi arid regions.** Oxford and IBH Publishing company , NewDelhi. 392p
11. Rajiv Kumar. 1993. **Issues in Social Forestry.** International Book Distributors, Dehradun.173p
12. Tiwari.K.M.and Singh.R.V. 1984. **Social Forestry Plantations.** Oxford and IBH Publishing company , New Delhi. 79p.