

## **FRN 302: SOCIAL FORESTRY AND AGROFORESTRY**

### **SYLLABUS**

Definition, concept and types of social forestry; People's participation; Status of Social forestry projects in different states of India; Factors effecting success of social forestry projects and urban forestry; Social forestry plantations: energy, road side, river bank, coastal, marshy, waterlogged, sand dunes and mountainous regions; Fodder and fuel species in Uttarakhand; Agroforestry- Definition, objectives and potential; Distinction between agroforestry and social forestry. Role of forests in India farming systems; Agroforestry system, sub-system and practice: agri-silviculture, silvipastoral, horti-silviculture, horti-silvipastoral, shifting cultivation, taungya, home gardens, alley cropping, intercropping, wind breaks, shelterbelts and energy plantations; Tree crop interactions in agroforestry; Importance of agroforestry; Fodder plants, fuel and medicinal plants in agroforestry; Agroforestry for livelihood, soil and water conservation; Planning for agroforestry – constraints, diagnosis and design methodology and selection of tree species for agro-forestry; Agroforestry projects – National, Overseas, MPTS – their management practices, economics of cultivation – nursery and planting (*Acacia catechu*, *Dalbergia sissoo* and *Tectona*, *Populus*, *Morus*, *Grewia*, *Eucalyptus* and *Quercus* species and bamboo, tamarind, neem, etc.); Research and extension needs in agro-forestry; Joint Forest Management (JFM)-Principal, objectives, methodology, scope, benefits and role of NGOs

### **Suggested Readings**

- [1] *Agroforestry* by A.P. Dwivedi
- [2] *An Introduction of Agroforestry* by P.K.R. Nair
- [3] *Textbook of Agroforestry* by D.S. Chundawat and S.K. Gautam
- [4] *Agroforestry Hand Book* by S.S. Negi
- [5] *Agroforestry: Theory and Practices* by A.J. Raj and S.B. Lal
- [6] *Manual by Agroforestry and Social Forestry* by M.L. Sen, R.C. Dadheech and L.K. Deshora
- [7] *Perspective of Social Forestry* by B.L. Sharma and R.L. Vishnoi
- [8] *Principles and Practices of social cum community forests* by V.N. Prasad
- [9] *Indian Forestry* by K. Manikandan and S. Prabhu