

Shri Govind Guru University, Godhra

Forestry

Choice Based Credit System (CBCS) Theory Syllabus of Elective Subject

Contact Hours per week: 2,

Exam duration: 3 hours

Unit -1

- Basic forestry, Branches, Important Indian Trees, Salient features of Indian Forest law and policies, Forest Management, Nursery techniques.

Unit- 2

- Silviculture - General Principle system, Natural and artificial regeneration of forest, Forest biometry-objectives, diameter, height, measurement, instruments used of felled and standing trees, physiology and breeding, silviculture for Mangroves.

Unit -3

- Forest soil, soil conservation, Environmental forestry and conservation, major wild trees species of Gujarat, Forest economics and legislation, watershed management.

Unit -4

- Forest resources and utilization, Ethnobotany general account in relation to forest inhabitants, forest product classification outline, forest based industries and marketing-trade of forest product, forestry related organizations.

Reference Books:

Khanna, L.S. and Chaturvedi A.N. 2008. Handbook of Forestry. Khanna Bandhu Publisher, 436pp.

Chaturvedi A.N. and L.S. Khanna. (2011). Forest Mensuration and Biometry (5th Edition). Khanna Bandhu. Dehradun. 364pp.

Nair, P.K.R. Agroforestry Systems in the Tropics. Springer.680p.

Zobelm B. and Talbert, J.(2003). Applied Forest Tree Improvement. Blackburn Press.

Murthy,JVS (1998). Watershed Management, New Age International, New Delhi.

Mehta,T.(1981). A Handbook of Forest Utilization, Periodic Expert Book Agency.

Chaturvedi, A.N.(2011). Forest Policy and Law. Khanna Bandhu Publishers, Dehradun.

Ashok Kumar: Botany in Forestry and environment:, Published by Kumar Media (P) Ltd., Gandhinagar, ISBN: 81-900502-0-6

K. Jayaraman: A handbook of Statistical Analysis in Forestry Research:, Kerala Forest Research Institute, 2001, pbk.viii,203p, tables, figs, ISBN: 81-85041-27-X.

N. L. Bor. A Manual of Indian Forest Botany: Asiatic Pub, 2010, Second Edition, xvi, 442p, 31 plates, ISBN: 978-81-9061-121-3

Benu Singh A modern Book on Forestry and Horticulture:, Vista International Pub, 2010,viii, 248p, ISBN: 93-80239-38-5