

NON MAJOR ELECTIVE II - FRESH WATER FISH CULTURE

Unit I

Historical background and present status of aquaculture; Purpose and importance of aqua culture; Categories of farm types and fish farming systems.

Unit II

Types of culture systems – Traditional, extensive, semi-intensive, intensive and super intensive; Characteristic feature of freshwater cultivable species (Indian major carps, murrels, cat fish and Tilapia)

Unit III

Types of aquaculture – Freshwater aquaculture, brackish water aquaculture and mariculture-merits and demerits; Selection criteria for cultivable species; Construction of ponds – Types of fish ponds.

Unit IV

Composite fish culture, monosex culture, culture of air-breathing fishes; sewage fed fish culture, Induced breeding of carps – Brood stock management – Management of farms.

Unit V

Control of aquatic weeds and predators; Fish diseases (Parasitic, bacterial, fungal and viral) and control measures.

Reference Books:

1. Jhingaran V.G.(1983) Fish and fisheries of India, Hindustan publishing corporation, New Delhi
2. Santhanam R, Sukumaran N and Natarajan P. (1990) A manual of freshwater aquaculture. Oxford and IBH Publishing Co. Pvt. Ltd. New Delhi
3. Shanmugam K. Fishery biology and aquaculture
4. Pillay T.V.R. Aquaculture – Theory and practice, Black well publishers
5. Rath R.K. Freshwater aquaculture, Scientific publishers
6. Shukla, G.S. and Upadhyay V.B. (1997) Economic zoology, Rakesh Rastogi, Meerut.