

FISHERIES

- * Basic principles of aquaculture. Origin growth and present global and national scenario. Prospects of aquaculture in relation to the national and state economy.
- * Status, scope and prospects of freshwater aquaculture in India and North Eastern States. Systems of aquaculture. Concepts of integrated aquaculture systems. Cultivable fin and shell fishes.
- * Soil and water quality for fish culture. Manuring and fertilization of fish pond. Management of soil quality for aquaculture.
- * Inland water bodies - physical, chemical and biological properties of water in relation to aquaculture. Biological communities of inland waters. Common groups of phyto and zoo planktons.
- * Pond for fish culture. Location, design and construction of fish pond, cage and pen.
- * Fish and shell fish breeding, traditional and modern fish hatching devices. Brood stock and nursery pond management.
- * Fish feed - natural and artificial. Nutritional requirement of commercially important cultivable fish species. Conventional and non-conventional fish feeds. Feed formulation and processing.
- * Significance of fish diseases in relation to aquaculture practices, their diagnosis and fish health management.
- * Economics of fish production system - culture and capture.
- * Concept and fundamentals of fishery extension education. Present system of fishery extension service.
 - Fishing gears. Traditional fishing gears of Assam. Modern commercial fishing methods. Traditional and modern methods of fish preservation. Post harvest management of fin and shell fish. Marine capture fisheries.