

Fisheries Technology

DIPLOMA STANDARD

I. FISHERY BIOLOGY:-

Cytology - Invertebrates - Pro-chordates - Chordates - Fish and systemation - external morphology - Anatomy of fish - Physiology of fish - Developmental Biology of fish - Ecology.

II. INLAND FISHERIES:-

Survey of Inland waters - Fish farming - Fish seed resources - Feeding of Fish - Bionomics - Care of the Pond - Disease and control - river and lake Fisheries - Reservoir Fisheries - Pollution in Inland waters.

III. MARINE FISHERIES:-

General Survey of marine Fishery Resources - Trends in other advanced nations - Principal marine Fisheries of Indian Coast - Other Marine Fisheries - Fish Population studies - Fisheries Statistics - Sampling Techniques Under Water Survey of Marine Resources - New Fishing grounds - Mineral Resources in Sea.

IV. NAUTICAL TECHNOLOGY:-

Geometry of ship and boat - Rope Works and Rigging - Deck work - Life saving Practices - Sphere Geometry - Sailing and Days work Composites - Navigational Instruments - Celestial sphere - Meteorology.

V. FISH PROCESSING TECHNOLOGY:-

Chemistry of Fish - Salting process - Smoking and drying process - Advanced trends in processing Technology - Transportation - Fish Meal and oil - products of Marine algae - Corals of Commerce - Leather products - whale products - Miscellaneous products.

VI. AQUACULTURE:-

Soil Chemistry - Hydro Chemistry - Principles Genetics - Hype Physation - Breeding Technique - Developmental Biology - mariculture - Fresh water culture - Management - Advancement in Aquaculture. Feeds - Feeding methods - disease control.

VII. OCEANOGRAPHY & METEOROLOGY:-

Distribution of Land and Water - Ocean Expeditions and Soundings - Bottom deposits - temperature of sea water and measurements - Density of sea water - Tides and waves of the ocean - current and drift systems - Distribution of living organisms in the sea.

VIII. FISHING GEAR AND CRAFT:-

Classification of fishing gear - important indigenous fishing gear of India - modern fishing gear - Fishing Gear material - preservation of fishing gear and accessories - Physiological conditions of Indian coast - Indigenous fishing craft of Indian coast - Advancement in Craft technology - Construction materials - Boat yard establishment and maintenance.

IX. FISHERY ECONOMICS:-

Introduction of Fishery Economics - Price and Income elasticity - Fishery Industrial Economics - Planning -Co-operatives - Marketing - Export Socio Economic survey - Material management - extension work.

X. FISHERIES RESOURCE MANAGEMENT AND ADMINISTRATION:-

Survey of Fishery resources in Indian waters, Bay of Bengal and Arabian Seas, Conservation, Development towards sustainability, coastal ecosystem and components.

XI. FISHERY ENGINEERING:-

Fluid Mechanics - Pumps - Loads and Joints - Torsion, Sprocket and Springs - Measurement of Power and motion - Fuels - Boilers - Machinery and maintenance - Classification of Engines - Marine Diesel Engines

XII. ELECTRICAL AND ELECTRONICS ENGINEERING:-

Fundamental of ELECTRICITY - ELECTRICAL MACHINERY - Wiring and Lighting - Batteries - Measuring Instruments - Principles of Radio Transmission - Acoustics and sound velocity in the sea - Fish finding equipments - Communication Equipments.