

## Faculty of Fisheries

Subject Code: A1802

### Fisheries Resource Management

Module. 1	World Fisheries - Present status of world fisheries utilization and demand. Major fishing nations of the world, major fishing regions, present trend of marine capture fisheries. Important finfish and shellfish resources in demersal and pelagic systems; conservation strategies.
Module. 2	Marine Fisheries of India -Pelagic demersal fishery resources, their exploitation area, season, important species, Production, potential resources, efforts, determination of age, mortality, yield per recruit, maximum sustainable yield and stock-recruitment relationship.
Module .3	Inland Fisheries of India - Inland fisheries resources of India, riverine fisheries Of India, Management and development of reservoir and lakes fisheries resource of India. Their conservation and management.
Module. 4	Fishery Hydrography - Hydrology of the continental shelf around India, Fisheries oceanography, physico-chemical and biological parameters related to fisheries, primary production, thermocline, carbon cycle, nitrogen cycle, phosphorus cycle, food chain and web, micronutrients in the water and soil. Pollution aspects.
Module. 5	Principles of management of fisheries resources objectives of management, issues and challenges of managing multi-gear fisheries. Mud bank fishery- wedge bank fishery-Commonly used tools for input and output regulation. Sustainability: Principles, social economic ecological biological and legal issues. Fisheries co-management. Marine Biodiversity of selected areas including coral reef conservation.
Module .6	Fisheries and fishing methods in open waters: Inshore fisheries (up to 50 m depth), offshore fisheries (50-200 m depth) High sea fisheries (beyond 200m) up to outer limit of EEZ and in International waters. Conservation aspects: Biodiversity principles, categorization of species into endangered, indeterminate and extinct varieties- managing the highly exploited fishery resources.
Module. 7	Extension, Economics Statistics -Extension techniques for marine fisheries, and economics of capture fisheries and statistical method in management of capture fisheries.