

**CORE COURSE XII - FISHING GEARS AND CRAFTS**

**Unit 1:**

Statistics on world and Indian fish catches. Indian export of sea food. Fishing gear: Classification, basic principles of fishing gear design construction and operation – Trawls, Purse seine, look and lines, Gill nets, Traps.

**Unit 2:**

Fish detection methods – acoustic fish detection – Echo sounder, Sonar, Net recorder – aerial survey, remote sensing.

**Unit 3:**

Traditional fishing methods – modernization of Indian fisheries – mechanization of boats and the advancement. Fisheries department regulation policy and conventions.

**Unit 4:**

Types of gears used in farm operations. Collection of prawn and fish brooders. Spat collection. Unconventional fishing – Electro –fishing, light fishing.

**Unit 5:**

Fishing Hamlets – Socio-economic problems of fisherman. Principles of public action. Implementation of New Law of the sea. EEZ –Role of fishery scientists – Professional ethics.

**References:**

1. Maarten B.2001. Marine resource management. Sage Publication Inc. California.
2. M.Shahul Hameed and M.R.Boopendranath, 2000. Modern fishing gear technology. Daya publishing House, New Delhi.
3. William,M,Royce, 1995. Introduction to the practices of fishery science. Academic press. New york.,
4. Kitab Mahal, 1999. A text book of fishery science and Indian fisheries century printers, Allahabad.