

B. Sc. 3rd SEMESTER

CORE - III

IFF316C: INDUSTRIAL FISH AND FISHERIES (CAPTURE FISHERIES)

CREDITS: THEORY 4, PRACTICAL 2

Syllabus Theory

UNIT I: INTRODUCTION – INLAND AND MARINE FISHERIES

- 1.1 Importance of capture fisheries. International fishery commissions.
- 1.2 Inland capture fishery resources of India. Riverine fisheries of major and minor Carps.
- 1.3 Cold water fisheries resources. Trout and Mahseer with reference to Kashmir.
- 1.4 Capture fisheries of catfishes and other groups.

UNIT II: LACUSTRINE AND EUSTRINE FISHERIES

- 2.1 Lacustrine fisheries- crafts and gears.
- 2.2 Estuarine fisheries- fisheries of clupeoids, prawns and other important groups.
- 2.3 Fisheries of brackish water, Lakes and backwaters.
- 2.4 Problems confronting brackish water capture fisheries

UNIT III: MARINE FISHERIES

- 3.1 Marine fisheries resources of India.
- 3.2 Fisheries resources of the continental shelf.
- 3.3 Exploitation and management of under-exploited and un-exploited resources of EEZ.
- 3.4 Problems of inshore fisheries.

UNIT IV: RESOURCES, DEVELOPMENT AND MANAGEMENT

- 4.1 Biological aspects of fishery management.
- 4.1 Principles of Conservation, development and management concepts and practice.
- 4.2 Population dynamics- concepts of recruitment and yield.
- 4.3 Problems of Over Fishing.

IFF316C: INDUSTRIAL FISH AND FISHERIES (IFF)

PRACTICAL

(CREDITS 2)

1. Handling of live fish and laboratory acclimatization of fish.
2. Field visits to observe fishing and collect field data regarding Riverine, estuarine, reservoir and cold water fisheries.
3. Analysis of data, drawing of graphs, charts, histograms and recording of salient features of all fisheries in the practical record book,
4. Field Visits to observe fishing and collect field data regarding species composition, craft, gear and field problems.

SUGGESTED READINGS

1. Proceedings of the symposium of living resources of the Seas around India. CMFRI, 1973, Cochin.
2. Fish and Fisheries of India, By Jhingran, V.G.
3. Prawns and prawns Fisheries of India. By Kurian C.V. and V.C. Sevastiah.