

Govt. Degree College Baramulla (Autonomous)

COURSE – MULTIDISPLINARY COURSE

Subject: Industrial Fish and Fisheries

Title: APPLIED FISHERIES

CREDIT: 03

Code: BIF22M103

CONTACT HOURS: 48

Course Objectives:

- *To provide Basic knowledge about the basic and applied fisheries*
- *To provide knowledge about aquaculture, ornamental fisheries and fish products*

Learning outcomes:

This course will be helpful in generation of self-employment by encouraging entrepreneurship in fish farming, aquarium construction and management and diversification of fish products

Unit 1 - Fish Biology and Aquaculture

(15 Contact hours)

- 1.1 – General characters of fishes
- 1.2 – Nutritional value of fish
- 1.3 – Definition and scope of fisheries
- 1.4 - Definition and History of Aquaculture
- 1.5 - Prestocking management - Removal of weeds, removal of insects, liming
- 1.6 - Procurement and stocking of seed
- 1.7 - Post stocking management - Supplementary feeding, harvesting

Unit 2 – Ornamental Fisheries

(15 Contact hours)

- 2.1 – Aquarium and its types – All glass aquarium, Framed aquarium, Public aquarium
- 2.2 – Construction of Home aquarium
- 2.3 – Accessories used in aquarium – Aerator, Filter, Thermostat
- 2.4 – Setting of aquarium tank
- 2.5 – Common Aquarium fishes – Gold fish, Koi carp, Guppy, Sword tail, Gourami
- 2.6 – Maintenance of Aquarium – feeding, cleaning of aquarium tank and accessories

Unit 3 – Fish Products

(15 Contact hours)

- 3.1 – Preparation of fish products
 - 3.1.1 Fish cutlets,
 - 3.1.2 Fish balls,
 - 3.1.3 Fish wafers
 - 3.1.4 Fish fingers
 - 3.1.5 Fish wada
 - 3.1.6 Fish papad
 - 3.1.7 Fish pickle
- 3.2 – Extraction of fish oil
- 3.4 – Preparation and uses of fish meal

Books Recommended:

1. A Handbook Of Fish Biology & Indian Fisheries by R.K parihar
2. General and Applies Ichthyology by Gupta and Gupta
3. Fish and Fisheries by Panday and Shukla
4. A Manual of Fisheries Sciences by Tun tun Singh
5. Post-harvest Technology of Fish and Fish Products by Balachandran