

Sadguru Gadage Maharaj College, Karad.

Department of Zoology

Certificate Course in Fish Farming

Syllabus

Paper - I Introduction to Aquaculture

Total Lectures 20 (15 hrs)

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| 1) Introduction and history of aquaculture | (2L) |
| 2) Purpose and importance of aquaculture | (2L) |
| 3) Inland Fisheries resources of India | (8L) |
| 3.1 Riverine Fisheries | |
| 3.2 Reservoir fisheries | |
| 3.3 Sewage fed fisheries | |
| 4) Estuarine fisheries resources of India. | (6L) |
| 4.1 Principle fisheries of brackish water. | |
| 4.2 Fisheries of Chilka, Pulicat and Kolleru Lake. | |
| 5) A visit to Fish Breeding Centre and submission of report | (2L) |

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Paper - II Aquaculture Technology

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1) Characteristics of cultivable species (Major carps and Exotic carps) (4L)

1.1 *Labeo rohita*

1.2 *Catla catla*

1.3 *Cirrhinus mrigala*

1.4 *Hypophthalmichthys molitrix* (Silver carp)

1.5 *Ctenopharyngodon idellus* (Grass carp)

1.6 *Cyprinus carpio* (Common carp)

2) Study of Marine and brackish water Fishes (4L)

Rastrelliger kanagurta, Sardinella longiceps, Harpodon nehereus, Pampus –

argenteus, Cynilossus spp. Trichurus sp. Polynemous sp. Chonos, Mugil corsula, Hilsa ilisha

3) Construction and management of ponds: (10L)

3.1 Rearing and stocking ponds

3.2 Predatory and weed fishes and their control

3.3 Fertilization of the pond

3.4 Aquatic weeds and their control

3.5 Fish food organisms and their production

3.6 Stocking, artificial feeding and harvesting

4) Culture of Air breathing fishes (2L)

Practicals

1) Study of Inland Capture Fishes (06)

a) Major carps (Any Three)

b) Cat fishes (Any Three)

c) Clupeids (Any Three)

d) Other miscellaneous fishes (Any three)

2) Study of Marine and brackish water Fishes (05)

Rastrelliger kanagurta, Sardinella longiceps, Harpodon nehereus, Pampus –

argenteas, Cynilossus spp. Trichurus sp. Polynemous sp. Chonos, Mugil corsula, Hilsa ilisha

3) Study of Non Fish organisms. (04)

Prawns, Lobsters, Crabs, Shrimps, Edible oyster,

Chank, Sea weed (Gracillaria, Sargassum, Digenia)

4) Fishing Crafts (3)

a) Catamaran b) Satpati c) Musula d) Machwa e) Tuticorin

5) Fishing Gears (2)

Types of nets- Dip net or lift net, Cast net, Purse Seine net, Trawl or Drag net and Bag net

Total (20)