

SKILL COURSE ON FISHERIES AND HATCHERY MANAGEMENT

(FOR ZOOLOGY PG STUDENTS OF I AND III SEM)

- Fish systematic and taxonomy- jawless, cartilaginous and bony fishes. Identification of edible and commercially important genera. History of fisheries, - Global and Indian scenario. Status and scope of inland capture fisheries in India and Fisheries of Rajasthan.
- Layout of fish farm, principles of site selection for various kinds of fish farm- soil and water characteristics, liming and fertilization. Different types of hatcheries, nursery and rearing pond- their preparation and management. Criteria for selection of species for culture. Fishing nets - crafts and gears for fish capture . Transportation of brooders, Induced breeding, hypophysation techniques, collection and transportation of seeds, harvesting of fry and fingerlings. Composite fish culture.
- Fish preservation techniques- chilling, freezing, curing, salting, drying, smoking and canning.
- Fish byproducts- oil, liver oil, fish meal, isinglass, glue and manure.

PRACTICALS

1. Identification of edible and commercially important genera of fishes.
2. Local fish fauna identification.
3. Study of different types of hatcheries including CIFE-D81
4. Study of different types of fishing nets
5. Study of different limnological parameters of pond water- ph, temperature. alkalinity, nitrate, phosphate, Dissolved oxygen, Total dissolved solids(TDS), turbidity,
6. Study of different types of fishing gears.
7. Study of length - weight relationship, and pondaral index (condition factor) in fishes of different groups.
8. Visit to fish farm and preparation of project report.

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17. Hand book of breeding of major carps by pituitary hormones – S. L. Chonder.
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