

COLLEGE OF FISHERIES, KISHANGANJ
BIHAR ANIMAL SCIENCES UNIVERSITY, PATNA

Class Schedule for B.F.Sc. 2nd Semester
Aquaculture in Wetlands and Reservoirs 2(1+1)

Theory

Sl. No.	Topic	No. of Classes
1.	Definition of reservoirs in India; nature and extent of reservoirs, topography, and species diversity; importance of morpho-edaphic index in reservoir productivity and classification; present status and future prospects in wetlands and reservoirs fish production.	2
2.	Factors influencing fish production; trophic phases in reservoir; pre-impoundment and postimpoundment stages and their significance in establishment of reservoirs fisheries.	2
3.	Wetlands definitions, nature and distribution, locally available indigenous biotic communities in wetlands, wetland functions, nutrients dynamics, trophic status of wetlands and their fisheries enhancement potential in Bihar.	3
4.	Different types of fisheries practices in wetlands globally and scope for adoption.	1
5.	Salient features of wetlands and reservoir limnology and their significance to fisheries development; management of small, medium and large reservoirs;	2
6.	Fisheries of some important reservoirs; recent advances in reservoirs fisheries management; conservation measures in reservoir fisheries.	2
7.	Stocking in fingerlings in reservoirs for production and enhancement.	1
8.	Role of cage and pen culture in enhancement of fish production in reservoirs and wetlands;	2
9.	History of cage culture, advantages of cage culture; selection of suitable site of cage culture; cage materials.	2
10.	Designs, shape, size and fabrication; cage frames and supporting system.	1
11.	Integration of cage culture with other farming systems; and impact of cage culture on reservoir ecosystem.	2
12.	History of pen culture, pen materials, fabrication; breeding of fish in pen; rearing of spawn in pen; grow-out from pens.	2
13.	Suitable candidate species for culture in cages and pens; constraints in cage and pen culture; economics of cage and pen culture.	2

Practical

Sl. No.	Topic	No. of Classes
1.	Identifications and enlistment of commercially important indigenous species of wetlands	1
2.	Preparation of charts on the present situation of reservoirs fisheries productivity	1
3.	wetland distribution and productivity:	1
4.	Detailed case studies of selected reservoirs on the changing trends in capture fisheries profile;	1
5.	drawing inferences from the analysis of data;	1
6.	Case studies of wetland aquaculture and suggestions for the sustainable development of wetland aquaculture in Bihar.	2
7.	Case studies on cage and pen culture; field visits to cage and pen culture site to acquaint with construction details and operation	1
8.	Designing models of cage and pen	1

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