

**RURAL INSTITUTE OF HIGHER STUDIES,
(RIHS.) BHOGRAI- (2021-2022)**

Add- on Course

FISH REARING AND CARE



DEPARTMENT OF ZOOLOGY

**R.I.H.S. BHOGRAI ,JALESWARPUR, BALASORE (ODISHA)
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COURSE OBJECTIVE

1. To impart the knowledge in fish and fisheries.
2. Application of knowledge in fisheries for nutrition and aquaculture practice.
3. To provide practical experiences which form their learning processes.
4. To develop aptitude for scientific work and ability to pursue studies far beyond graduation.
5. To encourage the students to take life science as a carrier which is the need now a days.

SPECIFIC OBJECTIVES

1. Application of the knowledge .
2. To develop interest in the subject and scientific studies.
3. To develop skill in practical work.
4. To develop abilities to apply scientific method.

SYLLABUS

Unit-1 Extensive , Semi- intensive and intensive culture of fish.

Structure:-

Introduction , Extensive fish culture. Features of extensive fish culture, Draw back. Semi intensive fish culture . Why semi intensive fish culture is preferred, Features And Advantages. **(8 classes)**

Unit-2 Polyculture

Indroductioin , principle of polyculture, Objectives of polyculture, Fish used in polyculture , Fish combination in Indian polyculture system,advantages of polyculture, Drawback of polycultures. Features affecting species selection and stocking. **(8 classes)**

Unit-3 Composite Fish culture

Introduction , Methodology of composite fish culture: Selection of ponds, Pre – Stocking operation , Control of harmful aquatic vegetation , Eradication of fish enemies, pond sanitation, lining, Fertilization , selection of species, stoking densities and stocking ratio , Supplimentary feeding: Fish yield, Harvesting and marketing. **(10 casses)**

Unit- 4 Brood stock Management

Introduction , need for Brood Stock management. Selection of Brood Stock, Feeding Management of Brood fishes . Spawing Process , Management of fish Hatcheries. **(10 classes)**

SUGGESTED READINGS

1. D H Evans and J D Claiborne, The Physiology of fishes, Taylor and Francis group, CRC, UK
2. R J Mogdans and B G Kapoor, The senses of fish: Adaptations for the reception of natural stimuli, Springer, Natherland
3. C B L Srivastava, Fish biology, Narendra Publishing House
4. J R Norman, A History of fishes, Hill and Wang Publishers.