



CIFRI

Central Inland Fisheries Research Institute Barrackpore

Courses

1. Environment and Fish Health Management
2. Management of Small Reservoirs
3. Inland Fisheries Management through GIS tools

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The CIFRI established in 1947 is a premier Institute in Asia in the field of Inland Fisheries Research, Extension and Training.

The Institute is devoted to the cause of research back up for fisheries development of the country and is conducting investigations for proper appraisal of open water inland fisheries resources of the country with an objective to evolve suitable methodologies for their sustainable utilization and conservation. The Institute has successfully conducted numerous environmental impact assessment studies prior to commissioning of various import industrial projects as a nodal consulting agency.

1. Environment and Fish Health Management

The participants would be apprised of latest techniques available for studying the EIA and for formulation of action plan for their mitigation under different situations. Methods of analyses of water quality, sediments, heavy metals, and pesticides will be taught to participants to assess the status of water pollution. Similarly, assessment of pollution based on biological methods would also be discussed. Practical classes and field visits will be an essential components of the course.

Training Programme

Institute regularly conducts several training programmes for scientists, university lecturers, managers and research scholars round the year.

Faculty

Director and scientists of the institute working in respective fields.

Course Director	: Dr K K Vass
Duration	: 30 days (1-20 January 2009)
Course fee	: US \$ 1,500 per trainee (exclusive of boarding and loading)
No. of trainees per course	: 10
Accommodation	: Will be provided at Institute guest house
Eligibility	: Bachelor/Master degree in fisheries or Life Science

Course Contents

- Water and soil quality attributes—methods of assessment
- Aquatic pollutants, their monitoring and assessment methods
- Eutrophication and its impact on fish
- Anatomy and physiology of fish
- Biological monitoring tools for aquatic ecosystem and fish health assessment
- Bioassay and toxicity test methods
- Bio-indicator methods for assessment of fish and ecosystem health
- Statistical methods application for assessing fish and its environment status
- Methods for assessment and economic impact of fish and its environment degradation

2. Management of Small Reservoirs

Management techniques for reservoirs based on ecological parameters developed by the Institute over a period of 30 years research for enhancement of fish production would be discussed in this course. The course will include theoretical and practical classes besides field visits.

Training Programme

Institute regularly conducts several training programmes for scientists, university lecturers, managers and research scholars round the year.

Faculty

Director and scientists of the institute working in respective fields.

Course Director	: Dr K K Vass
Duration	: 30 days (2-16 March 2009)
Course fee	: US \$ 1,500 per trainee (exclusive boarding & lodging)
No. of trainees per course	: 10
Accommodation	: Will be provided at Institute guest house
Eligibility	: Bachelor/Master degree in fisheries or Life Science

Course Contents

- Classification of reservoirs
- Morphology and hydrodynamics
- Biotic and abiotic factors
- Production potentiality
- Stocking assessment
- Craft and gear
- Rational exploitation
- Conservation
- Socio-economics

3.

Inland Fisheries Management through GIS tools

Participants will be appraised of Geographic Information System (GIS) as a resource management tool. Applications of GIS in fisheries and aquatic science research and management will include : mapping, modeling of fish stock, resources and habitat; identification, mapping of fishery conservation sites, sighting aquaculture zones, generating trends in global warming, and assessing watershed & land use activities, GIS facilitates the evaluation of spatially oriented fisheries problems through spatial modeling and visualization.

Training Programme

Institute regularly conducts several training programmes for scientists, university lecturers, managers and research scholars round the year.

Faculty

Scientists of the institute working in respective fields constitute the faculty.

Course Director	: Dr K K Vass
Duration	: 30 days (2-21 April 2009)
Course fee	: US \$ 1,500 per trainee (exclusive of boarding and loading)
No. of trainees per course	: 10
Accommodation	: Will be provided at Institute guest house
Eligibility	: Bachelor/Master degree in fisheries or life Science

Course Contents

- Database
- RDBMS and GIS Concept
- Image processing and GIS software tools

- TNT mips
- Arc View
- ERDS and related software
- Role of biotic parameters in fish production
- Concept of GIS based decision support system for inland fisheries management