

DEPARTMENT OF AQUACULTURE

SACRED HEART COLLEGE, THEVARA (AUTONOMOUS)

Minutes of the Board of Studies (BOS) Meeting Held on 4.12.2015 at the Department of Aquaculture, Sacred Heart College, Thevara.

Minutes of the meeting

The Chairman welcomed the members.

The minutes of the previous meeting held on 20.3.2015 was approved.

The revised syllabus circulated among the members was discussed thoroughly and the suggestions of both the theory and practical of the 4 semesters incorporated in the syllabus were discussed. The members desired to introduce some new aspects like Ecolabelling, Green certification of ornamental fishes, Depuration of bivalves etc. Thus, all the modifications of the Board of Studies were incorporated. BOS approved the revised syllabus.

The course curriculum for Certificate course on Ornamental Fish Culture for three months was approved in principle. BOS desired that the presence of lead banks also should be included as faculty in the course so as to make a link for financial support by the banks for the trainees. The institute infrastructure facility will be used initially.

New courses and topics introduced:

Semester	Name of the Course	Topics
I	Taxonomy and biology of finfish and shellfish	Study on the morphology-scales, teeth, tails, fins of commercially important finfish
	Instrumentation, micro techniques, Biostatistics and Aquaculture Engineering	1. Drawing the lay-out of ponds, dykes and sluices 2 Earth work calculations

		<p>3 Calculation of daily and monthly water requirements</p> <p>4 General designs for the construction of raceways</p> <p>5. General design of shrimp hatchery</p> <p>6. Working of different aquaculture equipment including hand tools</p> <p>7. Grain size analysis of the soil</p>
II	Aquatic biology, Pathology, Physiology and Genetics	Enumeration of bacteria, bacterial staining
	Biochemistry and Nutrition of Finfish and Shellfish	<p>1. Proximate composition of finfish and shellfish</p> <p>2. Estimation of soluble proteins by Biurete and Lowry's method</p>
III	Aquariculture and Aquaculture Economics	<p>1. Setting up of aquarium tanks</p> <p>2. Live feed culture</p> <p>3. Analysis and interpretation of data</p>
	Post-harvest Technology and Quality Evaluation of Seafoods	1. Estimation of moisture, total nitrogen, non-protein nitrogen, alpha amino nitrogen, trimethyl amine nitrogen & total volatile nitrogen, ash

		<p>2. Estimation of total fat, free fatty acid value, peroxide value</p> <p>3. Sensory evaluation of fish and fish products</p> <p>4. Handling of fresh fish, icing methods</p> <p>5. Changes during chilled storage</p> <p>6. Containers for transportation</p>
IV	Fishing technology	No new additions
	Fish Processing Technology	<p>1. Salting methods</p> <p>2. Dressed fish, fillets, minced fish, surimi</p> <p>3. Production of prawn products- whole prawns, HL, PUD, PD, Butterfly prawns</p> <p>4. Packaging of frozen prawns, Block frozen products, IQF products</p> <p>5. Freezing of marine products, plate freezing IQF freezing</p> <p>6. Production of canned products</p> <p>7. Products development- fish cutlet, fish balls, fish burger</p> <p>8. Fish pickle, smoked fish products</p>


The following courses have been thoroughly revised and major changes have been made:


1. Taxonomy and Biology of Finfish and Shell Fish
2. Biophysics, Instrumentation, Micro techniques and Research Methodology
3. Biostatistics and Computer applications
4. Aquaculture Engineering
5. Culture of Fin fishes, Molluscs and Sea cucumbers
6. Culture of Crustaceans, Seaweeds and Fisheries Technology
7. Fish Processing Technology
8. Fish Microbiology and Quality Assurance

The meeting ended at 12.30 noon with a vote of thanks by the Chairman.

The following members were present in the meeting.

- a. Dr. Saleena Mathew, Professor, CUSAT
- b. Dr. K. Sunil Mohammed Principal Scientist, CMFRI
- c. Dr. T.V. Anna Mercy, Professor, Dept. of Aquaculture.
- d. Ms. Sangeetha, Faculty, Dept. of Aquaculture
- e. Mr. Asha Babu, Faculty, Dept. of Aquaculture
- f. Dr. V.C. George, Head, Dept. of Aquaculture.


Chairman
Board of Studies


Dr. Johnson X Palackappan
Principal
Sacred Heart College (Autonomous)
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