

DEPARTMENT OF AQUACULTURE

SACRED HEART COLLEGE, THEVARA (AUTONOMOUS)

Minutes of the Board of Studies (BOS) Meeting Held on 20.3.2015 at the Department of Aquaculture, Sacred Heart College, Thevara.

1. Agenda item 4. **Presentation of syllabi and curriculum for approval.**
Curriculum and detailed scheme for conducting a certificate course which is approved by the Board of Studies is attached herewith for discussion and approval Encl:1.
2. Agenda item no. 9: P.G admissions.
As students of B.Sc. Zoology, Botany, Aquaculture, Industrial fisheries are eligible for admission to M.Sc. course in Aquaculture and Fish Processing, it is suggested that the entrance examination to this post graduate course may be divided into two parts. Part 1. 20% compulsory for all applicants and Part 2. 80% marks based on questions of their individual optional subjects. Submitted for the approval of the Academic council.
3. Agenda item no.10. Any other item matters with the consent of the chair: Ratification of the course as aided by university. Vigorous follow up is required.
4. More space for the laboratory as suggested by BOS. The Co-operative Society office adjacent to the department library may be shifted and this space can be efficiently used for the library and the present space occupied for the library can be used for laboratory. The Ministry of Food Processing gives one time grant to procure equipment for concerned discipline, but we must provide space and infrastructure.

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. Ravisankar. Director, CIFT, Cochin
- b. Dr. Saleena Mathew, Professor, CUSAT
- 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)
Thevara, Kochi-682 011

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
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DEPARTMENT OF AQUACULTURE

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Minutes of the Board of Studies (BOS) Meeting Held on 22.7.2017 at the Department of Aquaculture, Sacred Heart College, Thevara.

The Chairman welcomed the members.

The minutes of the previous meeting held on 17.1.2017 was approved.

Regarding the approval of the M.Sc. Course in Aquaculture and Fish Processing and allied courses in other colleges by the Government, a collective effort by these colleges should be undertaken. Due to logistical and practical reasons, the Board opined that the students may be familiarized with Cage Culture with other agencies.

Pre orientation class before factory training was approved.

Special classes on Aquaponics may be conducted by specialists in the field.

Revision of the syllabus 2018 as suggested was approved.

The board reiterated the view that a full-time non-teaching staff may be made available for the routine maintenance of hatchery, aquarium and laboratory.

Students must be taken to Pizhala Matsya Gramam for familiarization/ training in Cage Culture. Awareness on accredited certification courses of ASC (Aquaculture stewardship council) may be given to the students by conducting guest lectures from SGS, WWF marine wing. The board members offered assistance to identify proper experts.

General classes on environmental awareness, constitution law, human rights may be conducted in common for all the PG students by specialists.

Classes on new regulations on Aquaculture, Fish processing, Fisheries and international law on quality and trade may be imparted to the students by experts.

The meeting came to an end at 12.30 noon with a vote of thanks by the Chairman.


In view of the demand of students, a modification in the title and module 1 of the course PAQCT09 Culture of Finfish, Molluscs and Sea cucumber (Ref. Page. 2) is suggested.

The following members were present in the meeting

1. Dr. K. Sunil Mohammed Principal Scientist, CMFRI
4. Dr. Ravisankar, C.N. Director, CIFT, Cochin
5. Mr. Edwin Joseph, CEO, Winsor Exports, Maradu, Cochin
6. Mr. Krishnakumar, Aquaplaza, B.T. Ranadeeve Rd. Edappally
7. Dr. T.V. Anna Mercy, Professor, Dept. of Aquaculture.
8. Ms. Sangeetha, Faculty, Dept. of Aquaculture
9. Mr. Litty Mary, Faculty, Dept. of Aquaculture
10. Dr. V.C. George, Head, Dept. of Aquaculture


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