

CENTRE FOR PROFESSIONAL AND ADVANCED STUDIES
School of Applied Life Sciences
Pathanamthitta-689645

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The Institute

Prelude

The state of Kerala is endowed with a vast expanse of open inland waters in the form of rivers, canals, estuaries, natural and man-made lakes, backwaters, brackish water impoundments and mangrove wetlands. Fishes inhabiting these water bodies are a treasured resource both in terms of their utility as food and as a material for scientific study. For harnessing these aquatic resource, a scientific understanding of the fish species with respect to their morphological, biological, ecological and adaptive characters along with their natural distribution is imperative to back up their optimum utilization as candidate species for aquaculture and aquaculture practices

Pathanamthitta is an inland district of Kerala with a variety of water resources consisting of Pamba, Manimala, Achankovil, and Kllada rivers, reservoirs, streams, ponds, quarries etc. All these water bodies harbor a good diversity of fresh water fishes including several endemic taxa. Located in close proximity with these water bodies, the present Institution, School of Applied Life Sciences, the only one of its kind under the Centre for Professional and Advanced Studies devoted to the study of fisheries and Aquaculture, is in an advantageous position to take up any study relating to the life of the fishes of this region.

This institution of CPAS, affiliated to M.G. University, was established in 1995 to meet the increasing manpower demands in Aquaculture and other aspects of Fishery Science. The School undertakes teaching, research and consultancy services in Aquaculture and related areas of aquatic biology. Aquaculture is identified by specialists as an area which will have very bright employment potential. The institution is part of a fast developing Regional Centre (among other centres at other places) at Pathanamthitta (about 60 kms from the main campus of CPAS). This Regional Centre comprises of three Departments of which this institution is the only one under CPAS which undertakes programmes in the broad area of Fishery Science

The Academic Programme

The academic programmes going on in this institution are M.Sc. and M.Phil. in Fishery Biology and Aquaculture. Both these programmes have employment opportunities. The trained students serve as human resources to cater to the needs of food security through eradication of protein malnutrition by providing the knowledge of Aquaculture.

Courses offered

Faculty	Level of Course offered	Name of Programme	Course Duration	Type	Intake of Students	Examination system
Science	PG	M.Sc. Fishery Biology and Aquaculture	2 years	Self Financing	M.Sc. 25	Semester
Science	M.Phil**	Fishery Biology and Aquaculture	1 Year	Self Financing	M.Phil. 6	Semester

No.	Name of course	No. of seats	No. of semesters	Qualificaton	Semester fee	Mode of selection
1	M.Sc.(Fishery Biology and Aquaculture)	25 seats	4 semesters	Degree in Zoology or degree in Botany /Chemistry with Zoology as a subsidiary subject/B.F.Sc./B.Sc. Aquaculture or any other equivalent degree recognized by MG University with 55% marks in the optional subjects.SC/ST candidates are allowed 5% relaxation in marks.	Rs.22,500/-	Based on the marks of qualifying exam,entrance test and interview
2	M.Phil.(Fishery Biology and Aquaculture)**	6 seats	2 semesters	M.Sc. degree in Fishery Biology & Aquaculture/Aquatic Biology and Fisheries/Zoology / Fishery Science/ Aquaculture / Industrial Fisheries recognized by MG University with 55% marks	Rs.17,500/-	Based on the marks of qualifying exam and entrance test

**Subject to affiliation from MG University

Other Fees (To be remitted at the time of Admission)

No.	Items	Amount (Rs.)
1	Caution Deposit	1000
2	Amenities Fund	1575
3	Institution Development Fee	1000
4	Student Affiliation Fee	400
5	Sports Affiliation Fee	75
6	University Union Fund	80
7	College Union Fund	400
8	General Accident and Insurance Policy	10
9	Identity card	10
10	Medical Inspection Fee	100
11	Annual Administration Fee*	1000

*Should be remitted every year

Fee once remitted shall not be refunded under any circumstances. However, the amount shall be refunded to those who discontinue after getting admission, but before the closure of admission. Those who discontinue after closure of admission shall have to pay the tuition fee for the remaining years of study as liquidated damages as per Rules in force. To those who get admission under Government quota, Government rules will be applicable in this regard.

How to apply:

- 1. Application form shall be downloaded from www.sme.edu.in or www.cpas.ac.in**
- Application fee of Rs. 500/- (Rs. 250/- for SC/ST candidates) should be submitted with the application form.
- Mode of payment:** All fee payment should be through **State Bank Collect** link provided in the web site. The fee shall be paid using Credit/Debit card or Net Banking or at SBI with the challan generated from the online transaction. The receipt should be attached with the application form.
- Filled in application form shall be sent to the Deputy Director, School of Applied Life Sciences, Chuttippara, Pathanamthitta-689645.

M.Sc.(Fishery Biology and Aquaculture)

The inland fishes, especially those inhabiting the rivers and streams of Western Ghats , comprise a vivid spectrum of Ichthyofauna offering challenging avenues of taxonomical ecomorphological and biological pursuits .Although many courses have been introduced in some of the fisheries institutions in Kerala none of them seem to have given much importance in the study of Inland fishes of Kerala. This clearly felt need led to the establishment of SALS in the inland district of Pathanamthitta.Initially a Post graduate programme was started incorporating such relevant studies in fisheries as systematics,Aquatic Ecology,Fishery Technology,Fishery economics,Extension and Management,Finfish culture,shell fish culture,ornamental fisheries,Pathology in Aquaculture,Fish genetics and Immunology. The course gives adequate consideration for academic, employment and research aspects. The curriculum is designed in such a way as to enable students to acquire enough know-how to start self employment programmes in the field of Fishery Science. With regard to the academic side the curriculum has incorporated appropriate topics considering the latest global demands especially in food processing and quality control as well as maintaining disease-resistant strains. This gives much opportunity for students to take up a Teaching profession in Colleges.

M.Phil.(Fishery Biology and Aquaculture)**

Eventhough SALS is not recognized as a research centre in Fisheries ,the Institute has always promoted research among students who are given proper orientation and much needed training to undertake research projects in diverse fields relating to fish ,fisheries and Aquaculture as envisaged in the curriculum. Considering the successful accomplishment of student projects in SALS a research degree course, M.Phil .in Fishery Biology and Aquaculture, was established in SALS in 2007. Accordingly definite student projects have been undertaken since the beginning of the M.Phil.course in the Institute. The aquatic environment of the State which is often subjected to a high level of pollution is being constantly monitored by the students of the institution through their project works.

The institutional goals are translated into the academic and research programmes in the following manner:

- i) Incorporation of an on-job-training to provide hands-on experience of the techniques involved.
- ii) Conduct of field survey and collection
- iii) Exposure to exhibitions hosted by National agencies in the relevant subjects
- iv) Experiential learning through research project work

**Course subject to affiliation from MG University.

On-Job Training

OJT programme was implemented ,and the training is given to students of all batches since 1998. As far as the vision of the Institute is concerned this is a Best Practice adopted to achieve the main objective of the Institute namely,to provide well trained personnel in the field of Aquaculture.

This training is given to students during the second semester of the course in well known national fisheries institutes like NIFPHAAT, CIFT, Dept. of Fisheries, Govt. of Kerala etc. The main programmes of the training include:

1. Fish processing Technology
2. Post Harvest Technology
3. Fish Microbiology
4. Hazard Analysis and Critical Control Point (HACCP)
5. Fish Hatchery Management

Students who successfully complete the training programme always get better placements in reputed fish processing companies from where they are sent for Export Inspection Certification. Once they get the approval from the Export Inspection Agency (EIA) they are eligible for getting better placements in reputed fish/food processing companies as quality control inspectors, Food safety managers etc., both within and outside India. A good number of students from the Institute have succeeded in procuring such placements.