

Achievements 2019 - 2024

Department of Fishing Technology

The Department of Fishing Technology offers various courses on both Technology as well as Engineering aspects of harvesting of fishery resources. The department was established as per the recommendations of the fifth Dean's Committee by merging erstwhile Department of Fishing Technology and Department of Fisheries Engineering. The thrust area of the department includes studies on fishing gears and crafts operated in both inland and marine waters, Refrigeration in fishing vessels and Navigation and seamanship

FACULTY DETAILS

Teaching Staff

1. Mrs. Amrutha R. Krishnan, Assistant professor, Head (i/c)
2. Mrs. Naseeba P A, Guest Faculty (Emapanelled)

Non-teaching Staff

1. Mr. Shiju mon C.A., Gear Technician (Daily wage)
2. Mrs. Shahajis K S, Lab Assistant (Daily wage)

MFSc Thesis submitted from the department during the period of 2022-2024:

Sl. No.	Title of the Thesis	Student Name and No	Year of Submission
1	Design Documentation of Traditional Fishing Traps and Studies on Efficiency of Selected Fish Traps of Meghalaya, North East India	AjymoonNissa (FRM-2017-22-01)	2019
2	Performance Evaluation of Hard and Soft Square Mesh Windows for Reducing Juveniles in the Shrimp Trawl	E P AnandGoud (FRM-2017-22-02)	2019
3	Effect of Hook Size on Catch Efficiency in Pelagic Longline Fishery	Sumedh Vijay Halmare (FET-2018-20-01)	2020
4	Studies on Fishing Systems and Gillnet Selectivity for Selected Fish Species in Meenkara Reservoir	Saranya Raju (FET-2018-20-02)	2020
5	Studies on Selected Small-Scale Fishing System Along Tamil Nadu Coast with Special Reference to Energy Use	Kumarakannan A (FET-2019-20-02)	2021
6	Design of Trawls Operated in the Cochin Coast	LalimaInwati (FET-2019-20-03)	2021

7	Investigation on the Effect of 'J' Hook Shapes for the Carangid Fishes of Gulf of Mannar Coast of Ramanathapuram District Through Long Lines	Vasanth. K (FET-2020-20-02)	2022
8	Studies to Determine the Behaviour of Fishes to Different Shaped Meshes and Estimation of Selection Properties of T0 and T90 Codends Along the Cochin Waters	Vishnupriya. M.S (FET-2020-20-04)	2022
9	Studies on Fish Assemblage Around the Inland Cages of Vembanad Estuary Using Two Passive Gears	Risvana. B (FET-2020-20-05)	2022
10	Studies on fishing systems of selected Islands of Lakshadweep with a special reference to line fishing.	SadeedaParveen. K (FET-2020-20-06)	2022
11	Design documentation of Fish Traps from selected sites of central Kerala and Performance evaluation of CIFT collapsible fish Traps	Swathy Devi M S (FET-2021-20-02)	2023

Training programmes- Conducted

1. As part of Agriculture Education Day conducted on 3rd December 2022 students from fisheries colleges in the district visited the laboratory facility in the department



2. One week on-job training programme on Fishing gear and craft Technology and Navigation and Seamanship were given to twenty seven students from Govt. VHSE, Thevara during the period of December 2022 to January 2023

3. Students from West Bengal University of Animal and Fisheries Science visited the laboratory facility in the department



Academic achievements of Faculty

Mrs. Amrutha R Krishnan

1. National seminar on “Re-orienting the strategies towards the sustainable aquaculture and fisheries” conducted by Faculty of Fisheries Science, KUFOS. From 06.01.2022 to 07.01.2022

Academic achievement of Students

1. Students of MFSc 2023 batch has completed short term training on Refrigeration and Electrical Engineering from 06/05/2024 to 10/05/2024 at NIFPHATT, Kochi.



Nifphatt Kochi
3 h · 🌐

6 M.F.Sc students Kerala University of Fisheries and Ocean Studies (KUFOS) have successfully completed short term training on "Refrigeration and Electrical Engineering" from 06.05.2024 to 10.05.2024 at NIFPHATT, Kochi.



Completed Short Term training on

REFRIGERATION AND ELECTRICAL ENGINEERING

6 M.F.Sc students Kerala University of Fisheries and Ocean Studies (KUFOS) have successfully completed short term training on "Refrigeration and Electrical Engineering" from 06.05.2024 to 10.05.2024 at NIFPHATT, Kochi.





Nifphatt Kochi
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The students were trained in various aspects of refrigeration system, freezing equipment's, flake ice production, Freon and Ammonia system and its practical operation etc. Practical training was carried out in Institutes refrigeration and electrical workshops including various fish processing activities




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Academic/Research/Extension activities of Faculty outside the University

1. As part of Capacity Building Programme 2022-2023 the National Institute of Fisheries Administration and Management (NIFAM) of Department of Fisheries Kerala Have organized a Training for Master Trainers for imparting training to Fisherman in Fishing Technology from 9 – 12th August 2022. **Mrs. Amrutha R Krishnan** handled sessions on 'Life Saving Appliances' and 'Fire Fighting Appliances and Fire Prevention'.

2. As a part of training programme for the Junior Level Executive staff of the Department of Fisheries from 1st September 2023 to 30th November 2023 at NIFAM, Aluva. Mrs. Amrutha R Krishnan handled the session on “Traditional fishing Craft and Gears- Classification, operations, Trawling, purse seining, Ring Seining, Long lining”.

3. Mrs. Amrutha R Krishnan exhibits the working model of “Clam depuration system” Constructing under the Local Government One Idea (OLOI) programme of KSDIC during 1st to 3rd November 2023 to be conducted as part of the Keraleeyam programme.

4. Mrs. Amrutha R Krishnan, Assistant Professor has handled the session on “Traditional fishing Craft and Gears- Classification, operations, Trawling, purse seining, Ring Seining, Long lining” in the training programme conducted for 56 th batch of Junior Level Executive staff of the Department of Fisheries on 04.04. 2024 at NIFAM, Aluva.

5. Mrs. Amrutha R Krishnan, Assistant Professor has handled the session on “Traditional fishing Craft and Gears- Classification, operations, Trawling, purse seining, Ring Seining, Longlining” in the training programme conducted for 57 th batch of Junior Level Executive staff of the Department of Fisheries on 09.09. 2024 at NIFAM, Aluva.

Publications

I. RESEARCH ARTICLES

1. Sandhya, K., Saranya, R., Amrutha, R., Kumar, M., & Thomas, S. N. Gillnet Selectivity Parameters For Commercially Important Species, LabeoRohita In A Tropical Reservoir, Kerala, India. *Journal of the Inland Fisheries Society of India*, 55(3), 299-307.
<https://doi.org/10.1007/s10661-023-10962-y>

2. Asokan, K., Jha, P. N., Edwin, L., Krishnan, A. R., & Sebastian, M. (2023). Fuel use in small-scale fishing vessels along the southeast coast of India: a comparative study to ascertain possible reasons and potential recommendations for effective management. *Environmental Monitoring and Assessment*, 195(2), 345.
<https://doi.org/10.1007/s10661-023-10962-y>

3. Vasanth, K.; Muthupandi, K.; Naganandhini, V.; Kumar, M.; Krishnan, A.; Patolla, H., and Radhakrishnan, K., (2023) Effect of J-hook shapes on catch rate, efficiency, and hooking position of Needlefish: Evidence from Palk Bay, India. *Journal of Coastal Research*, 39(5), 933–939. Charlotte (North Carolina), ISSN 0749-0208.

II. ABSTRACTS PUBLISHED

1. Shamini M S and Amrutha R Krishnan (2024, December 12 – 14); Design characteristics of pearlspot gillnet operating in Kadinamkulam backwaters of Kerala; International Fisheries Congress and Expo 2024 (IFCE-2024); [conference publication],

KUFOS, Kochi.;

2. Amrutha R Krishnan, Shibu A V, Harikrishnan M (2024, December 12 – 14); STRUCTURAL VARIATION IN THE DESIGN OF STAKENETS OPERATING IN VEMBANAD LAKE OF KERALA; International Fisheries Congress and Expo 2024 (IFCE-2024); [Conference publication], KUFOS, Kochi.;
3. Chamundeshwari Bitli and Amrutha R Krishnan (2024, December 12 – 14); STUDY OF TRADITIONAL FISHING TRAPS OF SELECTED WATER BODIES OF WANAPARTHY DISTRICT, TELANGANA; International Fisheries Congress and Expo 2024 (IFCE-2024); [conference publication], KUFOS, Kochi.;
4. Swathy Devi M S, M.P. Remesan and Amrutha R Krishnan (2023, May 25 -27); PERFORMANCE EVALUATION OF CIFT COLLAPSIBLE FISH TRAPS; 30 th Swadeshi Science Congress[conference publication], NIT, Calicut.
5. Vishnupriya, M.S., Madhu, V.R., Manojkumar, B., Tejpal C.S., Amrutha R. Krishnan (2023 February 13-17); RAMP scores correspond well with biochemical test indicators: results of in-situ studies; Innovations in Fishing Technologies for Sustainable and Resilient Fisheries [conference publication], Taj Gateway Hotel, Kochi, India
6. KathavarayanVasanth, KalaiarasanMuthupandi, VinayagamoorthyNaganandhini, Manoj Kumar, Amrutha Krishnan, Harsha, KalidossRadhakrishnan; (2023 February 13-17); Effect of 'J' hook shapes on Catch rate, Efficiency and Hooking position of Needlefish: Evidence from Palk Bay, India; Innovations in Fishing Technologies for Sustainable and Resilient Fisheries [conference publication], Taj Gateway Hotel, Kochi, India
7. KathavarayanVasanth, KalaiarasanMuthupandi, VinayagamoorthyNaganandhini, Manoj Kumar, Amrutha Krishnan, Harsha, KalidossRadhakrishnan (2023 February 13-17); Length-weight relationships of eight pelagic carnivore fishes by longlines of Gulf of Mannar, India; Innovations in Fishing Technologies for Sustainable and Resilient Fisheries [conference publication], Taj Gateway Hotel, Kochi, India
8. KathavarayanVasanth, KalaiarasanMuthupandi, VinayagamoorthyNaganandhini, Manoj Kumar, Amrutha Krishnan, Harsha, KalidossRadhakrishnan(2023 February 13-17); Impact of 'J' hook shapes on Hooking rate, Catch rate and Hooking position of Carangids for the Gulf of Mannar, India; Innovations in Fishing Technologies for Sustainable and Resilient Fisheries [conference publication], Taj Gateway Hotel, Kochi, India
9. Amrutha R Krishnan, N A Talwar (2023 February 13-17); Fish Diversity in Hooghly Matlah estuary near Sunderban, West Bengal; Innovations in Fishing Technologies for Sustainable and Resilient Fisheries [conference publication], Taj Gateway Hotel, Kochi, India

10. Mosaraf Hossain, B Manoj Kumar, Leela Edwin, Devika Pillai, Manjulekshmi N, Amrutha R Krishnan. (2023 February 13-17); A comparative study of mechanical properties of untreated rubber wood and rubber wood treated with nanoCuO added Cashew Nut Shell Liquid. (ID Innovations in Fishing Technologies for Sustainable and Resilient Fisheries [conference publication], Taj Gateway Hotel, Kochi, India

Popular articles

1. Md Ibran Ansari and Sadeeda Praveen K (2024). Role Of Government Policies In Facilitating Modernisation In Traditional Fish Farming In India And The World. *AgriGate- An International Multidisciplinary e-Magazine*,4(7), 360-371

Practical Manuals

1. FET 312: Aquaculture Engineering (2+1) by Mrs. Amrutha R Krishnan and Dr. ManojKumar B – Reprint (2023)
2. FET 222: Fishing Gear Technology (1+1) by Dr. Manoj Kumar B and Mrs. Preetha P.M. – Reprint (2023)

Participation in Workshops / Seminar / Symposia / Conference/Trainings

1. Mrs. Amrutha R Krishnan, Assistant Professor has attended 21 days National workshop on “Recent Advances in Agricultural Engineering and Technology for Doubling Farmers Income” conducted through online mode by Department of Farm Engineering, Institute of Agricultural Science, Banaras Hindu University, UP and National Agriculture Development Cooperative LTD. Baramulla, UT of J&K from 1/9/2023 to 21/09/2023.
2. Mrs. Amrutha R Krishnan has attended National Level One week Faculty Development Programme on Research Methodology from 24 th June to 29 th June 2023 Organized by Kamla Nehru Mahavidyalaya , Nagpur.
3. Mrs. Amrutha R Krishnan, Assistant Professor has participated in the National webinar on “Recent Advances in Fishing Technology” organized by Department of Fishing Technology and Fisheries Engineering, Fisheries College and Research Institute, TNJFU held on 26 th March 2024
4. Mrs. Amrutha R Krishnan, Assistant Professor has successfully completed online Internship on Research Training from 11. 03. 2024 to 11.04.2024 held from 7.30 – 9 pmon weekdays.