

**FACULTY OF FISHERIES ENGINEERING
ACHIEVEMENTS**

DEPARTMENT OF FOOD PROCESS TECHNOLOGY

Name of the Faculty: **Dr. Lakshmi E. Jayachandran**
Designation: **Assistant Professor & HOD (i/c)**

Published Papers in Journals

International

Sl. No.	Full Journal paper
1.	Lakshmi E Jayachandran, Sujayasree O J, & Sudheer Kundukulangara Pulissery (2024). Pulsed light processing of sugarcane juice: quality evaluation and microbial load assessment. Journal of the Science of Food and Agriculture DOI: https://doi.org/10.1002/jsfa.13699
2.	Surya Rajan, Sudheer K P, Sankalpa Kallahalli Boregowda, Lakshmi E Jayachandran and Abhishek S (2024). Pulsed light and retort processing of coconut inflorescence sap (neera): Process optimization and storage stability. Food and Bioprocess Technology (Accepted)

National

Sl. No.	Full Journal paper
1.	Saranya, S., Sudheer Kundukulangara Pulissery, Boregowda, S. K., Lakshmi E Jayachandran, Hridyesh Pandey, & Abdullah, S. (2024). High pressure processing of jackfruit (<i>Artocarpus heterophyllus</i> L.) shreds: Quality prediction and response surface optimization. Journal of Food Science and Technology, 1-12.

Others (Awards & Recognition):

Sr No:	Awards/Certificate/Fellowship (if any)	Year	Name of Agency
1.	Chief Minister's Nava Kerala Postdoc Fellowship 2023.	2023	The Kerala State Higher Education Council

**FACULTY OF FISHERIES ENGINEERING
ACHIEVEMENTS**

Name of the Faculty: **Dr. Ammu Dinakaran**

Designation: **Assistant Professor, Empanelled Guest Faculty**

Research Guidance

Sr. no:	Degree Awarded (PhD/MTech/ BTech)	Title of the thesis	Year of submission	Major /Co Guide	Name of Institution
1.	B.Tech	Development of gelatin based sausage casing from basa fish skin	2024	Co Guide	KUFOS
2.	B.Tech	Development and characterisation of liquid smoke infused masala powder: An innovative flavor solution	2024	Co.Guide	KUFOS

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DEPARTMENT OF FOOD SAFETY AND QUALITY ASSURANCE

Name of the Faculty: **Dr. Unnikrishnan S**

Designation: **Assistant Professor & HOD (i/c)**

Published Papers in Journals

International

Sl. No.	Full Journal paper
1	M B Nguyen, P Flora, M C Branch, M Weber, X Y Zheng, Unnikrishnan Sivan et al., (2024) Tenascin-C expressing touch dome keratinocytes exhibit characteristics of all epidermal lineages. Science Advances, 10 (3) eadi5791 (Impact factor: 13.6) https://doi.org/10.1126/sciadv.adi5791
2	A Deepti, B K Chackochan, S Sadanandan, ..., Unnikrishnan Sivan et al., (2024) An easy and cost-effective method for the isolation and culturing of neural stem/progenitor cells from the subventricular (SVZ) and dentate gyrus (DG) of adult mouse brain. Journal of Neuroscience Methods, 404, 110060 (Impact factor: 3). https://doi.org/10.1016/j.jneumeth.2024.110060
3	K Chandrababu, V Radhakrishnan, AS Anjana, R Rajan, Unnikrishnan Sivan et al., (2024) Unravelling the Parkinson's puzzle, from medications and surgery to stem cells and genes: a comprehensive review of current and future management strategies. Experimental Brain Research, 242(1), 1-23. (Impact factor: 2) https://doi.org/10.1007/s00221-023-06735-
4	Bins Kathanadan Chackochan, Sinoy Johnson, ... Unnikrishnan Sivan et al., (2024) Transcriptomic analysis of CNTF-treated mouse subventricular zone-derived neurosphere culture reveals key transcription factor genes related to adult neurogenesis. Heliyon 10 (19) e38496 (Impact factor: 3.4) https://doi.org/10.1016/j.heliyon.2024.e38496

Books Published as author or as editor

Sl. No.	Book Published (Reference in the format given below with author names in the order published,	ISSN/ ISBN No.	International/ National/ Regional	Editor/ Author
1	Animal Model for Alzheimer's Disease, Parkinson's Disease, and Schizophrenia. Book chapter in Animal Models in Research (Springer) 283-317. https://doi.org/10.1007/978-981-97-0048-6_11	978-981-97-0047-9	International	S Dhanasekaran, R Arunadevi, M Nandan, KChandrababu, BChakrapani, Unnikrishnan Sivan (2024)

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Research Guidance

Sl. No:	Degree Awarded (PhD/ MTech/ BTech)	Title of the thesis	Year of submission	Major / Co-Guide	Name of Institution
1.	B. Tech	Encapsulation of Lactobacillus Plantarum with Banana Peel Powder, Banana Peel Powder Hydrolysate, Finger Millet Powder by Lyophilization and Evaluation of Viability and Survivability of Encapsulated Probiotic	2024	Major Guide	KUFOS
2	B.Tech	Comparative study of neem and bay leaves extracts to counteract rancidity in coconut oil	2024	Major	KUFOS
3	B.Tech	Characterization of <i>Aeromonas dhakensis</i> phages and their biocontrol applications in fish	2024	Co-Guide	Bhabha Atomic Research Centre, Mumbai
4	BTech	Radiation processing: A tool for enhancing meat quality and minimizing antibiotic residues	2024	Co-Guide	Bhabha Atomic Research Centre, Mumbai
5	BTech	Edible Deep Eutectic Solvent Extracts of Beetroot Pigments	2024	Co-Guide	Bhabha Atomic Research Centre, Mumbai

Others (Awards & Recognition)

Sl. No:	Awards/Certificate/Fellowship (if any)	Year	Name of Agency
1	Awarded with Young Investigator Program in Biotechnology	2023	KSCSTE

**FACULTY OF FISHERIES ENGINEERING
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Ongoing External Agency Funded Projects

Sl. No.	Title of Projects	Funding Agency	Budget (Rs. Lakhs)	Duration
1.	Progression of and the role of the vascular and neuronal niche in pancreatic stellate cell activation	KBC-KSCSTE	24.82	3 years

International conferences/Workshops/Trainings

Sl. No	Full Papers in Conference proceedings	Date	Details of Conference International/National/Regional
1.	Invited speaker: “Prospects of Marine Microbial Metabolites as Pharmaceutical Agents”		International Fisheries Congress, 2024 at KUFOS
2	Workshop attended	3 rd and 4 th August 2023	International Conference cum Hands-on Workshop in Biomedical Translational Research
3	Attended Hands-on Workshop	July 6 th to July 8 th , 2023	Mass Spectrometry-based Metabolomics” held at Centre for Systems Biology and Molecular Medicine, Yenepoya Research Centre, Mangalore.
4	Invited Talk at the Faculty Training Program (FTP) 2024 “Development of Sustainable Packing Techniques of Fishery Food Products”	19th February to 6 th March 2024	DBT Skill Vigyan State Programme Scheme, KUFOS
5	Expert Talk on the topic “Small Molecules as Anti-cancer and Anti-inflammatory agents”	29 th Feb. 2024	SCIENCIA-2024 at Mahatma Gandhi University Kottayam
6	Invited Talk at the Faculty Training Program (FTP) 2024 on Cell Culture Techniques for Biotechnology Applications – Focus on Neurobiology and Cancer	14 February to 27 February 2024	DBT Skill Vigyan State Programme Scheme, CUSAT

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7	Co-Chaired a session in Food Entrepreneurs Conclave 2.0	30-11-2023	Organised by Association of Food Scientists and Technologists (India) and Department of Food Science and Technology, KUFOS
8	Invited Talk on the topic "From Lab Bench to Clinics; Our Era of Translational Research" at Collaborative Research Initiatives on Science and Technology-2023	1 st of July 2023	Jubilee Centre for Medical Research, Thrissur
9	Chairing a scientific session in International Conference on Science and Technology of Advanced Materials (STAM-23)	19 th April, 2023	Mar Athanasius College, Kothamangalam

**FACULTY OF FISHERIES ENGINEERING
ACHIEVEMENTS**

Name of the faculty: **Er. Bhavya Francis**

Designation: **Teaching Assistant**

Research Guidance

Sr. No:	Degree Awarded (PhD/MTech/ BTech)	Title of the thesis	Year of submission	Major /Co-Guide	Name of Institution
1.	B. Tech	Development of cold pressed pomegranate juice	2023	Major	KUFOS
2.	B. Tech	Intelligent grain monitoring and dispensing system	2022	Major	KUFOS

**FACULTY OF FISHERIES ENGINEERING
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Name of the Faculty: Dr. Linu Salim

Designation: Assistant Professor, Empanelled Guest Faculty

Books Published as author or as editor

Sl. No.	Book Published (Reference in the format given below with author names in the order published,	ISSN/ ISBN No.	International/ National/ Regional	Editor/ Author
1	Biofertilizers in recent advances in agricultural sciences and technology	ICAR	National	Author

Patents Applied

Sl. No:	Patent Name	Application No:	Applied Date
1	Universal Portable pepper thresher	10799IN001	19.06.2023

Research Guidance

Sl. No:	Degree Awarded (PhD/MTech/ BTech)	Title of the thesis	Year of submission	Major /Co-Guide	Name of Institution
1.	BTech Food Technology	Development and quality analysis of Instant spirulina corn soup	2017	Major Guide	KUFOS
2.	BTech Food Technology	Design and development of arrowroot powder production equipment	2017	Major Guide	KUFOS
3.	BTech Food Technology	Milling studies of pulses and performance evaluation of two milling machines	2019	Major Guide	KUFOS
4	BTech Food Technology	Smart Vegetable Powder machine	2019	Major Guide	KUFOS
5	BTech Food Technology	Edible packaging material	2019	Major Guide	KUFOS
6	BTech Food Technology	Application of 3D printing for customized food	2018	Major Guide	KUFOS
7	BTech Food Technology	Mechanization and study of IR assisted electric dryer for fruit drying	2018	Major Guide	KUFOS
8	BTech Food Technology	Automatic Pepper thresher	2019	Major Guide	KUFOS
9	BTech Food Technology	Sensor based fruit quality detector	2018	Major Guide	KUFOS

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Name of the Faculty: **Gopika Unni P**

Designation: **Assistant Professor, Empanelled Guest Faculty**

Published papers in journal

Sr. No:	Full Journal Paper
1.	Electrifying Identities: Gender Performativity In Naomi Alderman's The Power, Impact Factor: 6.1. ISSN-0970-9045. 2024, Vol 44, Issue 1, No. 2, 2024

Books Published as author or as editor

Book Published	ISBN/ISSN NO	International/ National/ Regional	Editor/Author
Human Apology, Shanlax International Book Publicaions	978- 93-90082- 16- 2.	International	Gopika Unni P (Author)
Articulating Resistance: A Study of Selected Dalit Poetry InEnglish by Chandramohan Sathyanathan, Shanlax International Book Publications	978-93-90082-71-1.	International	Gopika Unni P (Author)
Cyber Security. Shanlax International Book Publications.	978-93-91373-16-0.	International	Edited chapter Gopika Unni P

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Name of the Faculty: **Er. Aswathy M S**

Designation: **Assistant Professor, Empanelled Guest Faculty**

Research Guidance

Sl. No:	Degree Awarded (PhD/ MTech/ BTech)	Title of the thesis	Year of submission	Major /Co-Guide	Name of Institution
1.	B. Tech	Banana pseudostem utilization: waffle ice-cream cone premix powder	2024	Co-guide	KUFOS

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DEPARTMENT OF FOOD PROCESS ENGINEERING

Name of the Faculty: **Dr. Kiran Mohan**

Designation: **Assistant Professor & HoD (i/c)**

Participated in national level online Faculty Development Program on Outcome Based Education and Application of Generative AI in Teaching and Research

Research Guidance

Sl. No:	Degree Awarded (PhD/MTech/ BTech)	Title of the thesis	Year of Submission	Major / Co Guide	Name of Institution
1.	B. Tech.	Application of Aloe Vera Gel-flaxseed Mucilage based Edible Coating to Maintain the Post Harvest Quality of Tomatoes	2024	Major Guide	KUFOS

**FACULTY OF FISHERIES ENGINEERING
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Name of the Faculty: **Er. Rashida Rajuva**

Designation: **Assistant Professor, Empanelled Guest Faculty**

Books Published as author or as editor

Sl. No.	Book Published (Reference in the format given below with author names in the order published,	ISSN/ ISBN No.	International/ National/ Regional	Editor/ Author
1	Book name: Innovations In Agricultural And Biological Engineering Chapters : Designer Functional Foods in book named Innovations in Agricultural and Biological Engineering Pineapple as Functional Food in book named Innovations in Agricultural and Biological Engineering Passion Fruit: A Promising Functional Food Pistachio : An Elite Nutritional Food Vitamin C: A Miracle Functional Ingredient Fenugreek (Trigonella foenum-graecum): A Miraculous Functional Herb Fruits as a Functional Food Non-Thermal Processing Of Foods: Pulsed Electric Fields, Pulsed Light, Ionizing Radiation and High Hydrostatic Pressure	Apple Academic Press, Inc, USA 2018	International	Author

Research Guidance

Sl. No:	Degree Awarded (PhD/MTech/ BTech)	Title of the thesis	Year of Submission	Major / Co Guide	Name of Institution
1.	B Tech	Development of Low cost emulsion emulsion electrospinning apparatus for encapsulation of bio active compounds	2017	Major Guide	KUFOS
2	BTech	Development of Arrowroot powder production equipment	2017	Major Guide	KUFOS

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3	BTech Food Technology	Development of vegetable and fruit dehydrator	2017	Major Guide	KUFOS
4	BTech Food Technology	Design and fabrication of Pineapple peeler, slicer come corer	2017	Major Guide	KUFOS
5	BTech Food Technology	Fish Quality Analysis using Machine Learning	2018	Major Guide	KUFOS
6	BTech Food Technology	Design and Development of IOT based garlic peeler and product quality evaluation	2019	Major Guide	KUFOS

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Name of the Faculty: **Akhila K A**

Designation: **Assistant Professor, Empanelled guest faculty**

International conferences

Sl. No	Full Papers in Conference proceedings	ISSN/ISBN No.	Details of Conference International/National/Regional
1.	Fish disease detection in aquaculture using artificial intelligence (AI) and deep learning techniques		International Fisheries Congress, 2024 at KUFOS

**FACULTY OF FISHERIES ENGINEERING
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DEPARTMENT OF OCEAN ENGINEERING

Name of the Faculty: **Dr. Athul Krishna K R**
Designation: **Assistant Professor & HoD (i/c)**

Served as mentor and advisor to the top ten candidates granted humanitarian visas to attend the International Space Camp 2024 at the Yu. A. Gagarin Research & Test Cosmonaut Training Center (GCTC) in Moscow, Russia from October 19-24, 2024.

Research Guidance

Sl. No:	Degree Awarded (PhD/ MTech/ BTech)	Title of the thesis	Year of submission	Major /Co-Guide	Name of Institution
1.	M. Tech	Siltation study of Chellanam Harbour Using MIKE 21/3 Coupled FM	2024	Major	KUFOS
2.	MTech	Wave Transformation due to porous structure and two surface piercing barriers	2024	Major	KUFOS
3.	MTech	Siltation study of Chellanam Harbour Using MIKE 21 LITPACK	2024	Major	KUFOS
4	MTech	Wave Transformation due to porous structure and two Bottom standing barriers	2024	Major	KUFOS
5	MTech	Wave Transformation due to porous structure and two Fully-Extended Barrier.	2024	Major	KUFOS