



CHALLENGER

NEWSLETTER OF
KERALA UNIVERSITY OF FISHERIES & OCEAN STUDIES (KUFOS)

October 2024

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06

9th Convocation
Ceremony of
KUFOS



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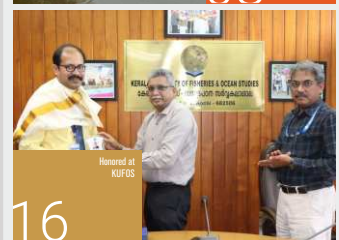


09

Aquascaping and Tissue Culture Development of Aquarium Plants at KUFOS



08



16



05



Retirements



Dr. Daisy C Kapen
Professor
24.05.2024



Cleetus P J
Deputy Registrar
30.04.2024

New Appointments



Dr. Arun S
Assistant Professor
16.10.2023



Dr. Dona P
Assistant Professor
30.11.2023



Smt. Arya P
Assistant Professor
30.11.2023



Smt. Sethulakshmi C. S
Assistant Professor
30.11.2023



Smt. Praisly M Shaju
Assistant Professor
30.11.2023



Dr. Kiran Mohan
Assistant Professor
01.12.2023



Soji.L.S
Computer Assistant
Gr.II
27.11.2023



Sinoop K C
Computer Assistant
Gr.II
20.03.2024



Shiji P S
Computer Assistant Gr.II
27.11.2023



Sarath V Sankaran
Programmer
15.04.2024



Dhanya S Raj
Assistant
29.01.2024



Vipin chandran V
Assistant
01.02.2023



Asha Gopalakrishnan
Programmer
09.05.2024



Anu Azeez P A
Professional Assistant
Gr 212.06.2024



Aneesh Muhammed T
Assistant
07.08.2024



Hariraj E
Assistant
14.12.23

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➤ From the desk of the Vice Chancellor

Prof. (Dr.) T. Pradeepkumar, Vice Chancellor, KUFOS

Kerala, a state blessed with a rich tapestry of water bodies and a dynamic fishing industry, has long been a pioneer in fisheries education. The Kerala University of Fisheries and Ocean Studies (KUFOS) has been instrumental in shaping this legacy, particularly through its College of Fisheries, which has significantly contributed to developing skilled professionals and advancing the sector.

A landmark achievement for KUFOS has been the establishment of the Aquatic Animal Disease Diagnosis and Quality Testing Referral Laboratory, inaugurated on July 20, 2024. Funded under the Pradhan Mantri Matsya Sampada Yojana with a budget of INR 9.75 crore, this cutting-edge facility addresses critical challenges in aquaculture health and safety. It ensures regular monitoring of aquatic diseases, detects harmful contaminants like antibiotics and pesticides, and certifies disease-free aquaculture products. This initiative not only safeguards aquatic health but also enhances the quality and marketability of fisheries produce, reinforcing the state's position in sustainable aquaculture practices.

In May 2024, KUFOS undertook a comprehensive study of the massive fish mortality in the Periyar River following the release of polluted water from the Pathalam regulator. The investigation, led by KUFOS experts, revealed that toxic levels of hydrogen sulfide and ammonia, combined with low dissolved oxygen and industrial effluents, caused the disaster. The findings underscored the urgent need for improved water management and pollution control strategies to protect Kerala's aquatic ecosystems and the livelihoods they support.

January 2024 marked another milestone as KUFOS, in collaboration with the College of Fisheries

Panangad Alumni Association (COFPAA), hosted the International Fisheries Congress & Expo (IFCE 2024). This global platform brought together experts to address critical challenges in fisheries and aquaculture, aligning efforts with Sustainable Development Goal 14, focusing on marine conservation. Key discussions included ecosystem-based management, climate resilience, and technological advancements such as satellite monitoring and AI-driven resource management. The congress highlighted innovative approaches like bio-circular aquaculture and multitrophic systems, paving the way for a more sustainable fisheries industry.

KUFOS has made remarkable strides in species conservation and aquaculture innovation. The development of a captive breeding protocol for the Indigo Barb (*Pethia setnai*) represents a significant leap forward in ornamental fisheries and ecological preservation. Additionally, the production of over 10,000 fingerlings of the endangered Yellow Catfish (*Horabagrus brachysoma*) underscores the university's commitment to conserving Kerala's endemic aquatic species. These initiatives contribute to biodiversity preservation and sustainable utilization of aquatic resources.

During this period, KUFOS has established Memorandums of Understanding (MoUs) with prominent international organizations in the fisheries sector, including the University of Plymouth, to foster academic and research collaborations. Additionally, the university has engaged in meaningful foreign partnerships, such as student and faculty exchange programs with esteemed Norwegian institutions.

Furthering its conservation efforts, KUFOS prepared the first-ever Aquatic Biodiversity Register for Kumbalam Grama Panchayat in Ernakulam



District. This comprehensive catalog documents local aquatic species and provides critical data for conservation planning. It is a valuable tool for researchers, policymakers, and local communities, fostering greater involvement in ecosystem protection.

To extend its reach, KUFOS is establishing Fisheries and Ocean Science Knowledge Centers in districts where the university currently lacks a presence. The first center in Chavakkad is set to open soon, providing wider access to fisheries education and resources.

KUFOS has also embraced digital learning, with over 7,000 students enrolling in its online courses through the Massive Open Online Courses (MOOC) platform. Collaborating with the National Programme on Technology Enhanced Learning (NPTEL) under IIT Madras, the university offers specialized courses like Food Packaging Technology and Canning Technology and Value Addition of Seafood. These programs equip participants with practical skills tailored to industry needs, advancing their professional prospects.

KUFOS remains steadfast in its mission to drive innovation, research, and education in fisheries and aquaculture. With initiatives ranging from cutting-edge laboratories to international collaboration and conservation breakthroughs, the university is shaping a sustainable future for the sector. As it expands its reach and resources, KUFOS reaffirms its commitment to empowering students, safeguarding ecosystems, and fostering economic growth, cementing its position as a leader in fisheries education and innovation.

Inauguration of State's First Referral Laboratory for Aquatic Animal Disease Diagnosis and Quality Testing at KUFOS



The State's first Referral Laboratory for Aquatic Animal Disease Diagnosis and Quality Testing, along with a Biosecure Wet Lab and Mobile Aqua Clinic, was inaugurated on July 20, 2024, at 3:30 PM at the KUFOS Headquarters, Panangad.

The inaugural ceremony began with a welcome address by Dr. Pradeep Kumar T., Hon'ble Vice Chancellor of KUFOS. The Referral Laboratory was formally inaugurated by Adv. George Kurian, Hon'ble Minister of State for Minority Affairs and Fisheries, Animal Husbandry & Fisheries, Government of India. Shri. Saji Cherian, Hon'ble Minister for Fisheries, Culture, and Youth Affairs, Government of Kerala, presided over the programme.

Shri. K. S. Radhakrishnan, President of Kumbalam Grama Panchayat, Shri. B. Abdul Nasar IAS, Director of Fisheries, Government of Kerala, and Shri. Sreekumar Unnithan, Member of the KUFOS Governing Council, delivered felicitations. The event concluded with a vote of thanks by Dr. Dinesh K., Registrar (i/c) of KUFOS.

The Referral Laboratory, established under the Pradhan Mantri Matsya Sampada Yojana with a financial investment of ₹9.75 crore, is a landmark achievement for aquaculture in Kerala. It offers state-of-the-art facilities for precise disease identification and diagnosis in aquatic animals, ensuring healthy aquaculture practices. The laboratory is equipped to enable early detection and effective treatment of aquatic animal diseases, significantly contributing to sustainable fisheries management in the region.



International Fisheries Congress & Expo (IFCE) 2024: Advancing Sustainable Fisheries

Kerala University of Fisheries and Ocean Studies (KUFOS), in partnership with the College of Fisheries Panangad Alumni Association (COFPAA), successfully organized the International Fisheries Congress & Expo (IFCE 2024) in January 2024. This global event brought together researchers, policymakers, and industry leaders to address critical challenges in fisheries and aquaculture, aligning with Sustainable Development Goal 14, focusing on life below water.

The congress explored pressing issues such as ecosystem conservation, climate resilience, and sustainable aquaculture through thematic sessions. It emphasized ecosystem-based management, biodiversity protection, and responsible fishing practices, with a focus on preserving critical habitats like the Vembanad-Kol wetlands. Technological advancements, including satellite remote sensing, drones, and AI, were showcased for real-time resource monitoring, alongside innovations like bio-circular production and multitrophic aquaculture for sustainable intensification.

Climate change impacts were a central theme, with strategies proposed for climate-smart aquaculture, resilient infrastructure, and diversified livelihoods for coastal communities. The congress also highlighted gender equity, advocating for policies that empower women and ensure inclusive growth.

Governance discussions emphasized co-management, combating illegal fishing, and reforming subsidies to promote sustainability. The event underscored the importance of education through a National Fisheries Education Framework, fostering industry-academia collaboration and modernizing curricula to equip future professionals.

IFCE 2024 culminated in actionable recommendations for ecosystem-based strategies, advanced technologies, and inclusive policies to ensure sustainable fisheries and aquaculture. KUFOS takes pride in hosting this transformative event, setting a roadmap for the sector's sustainable growth and resilience.



9th Convocation Ceremony of KUFOS



The 9th Convocation Ceremony of Kerala University of Fisheries and Ocean Studies (KUFOS) was successfully conducted with great distinction. Shri. Arif Mohammed Khan, Hon'ble Governor of Kerala and Chancellor of KUFOS, delivered the Convocation Address. Shri. Saji Cherian, Hon'ble Minister for Fisheries, Government of Kerala, presided over the event, and Shri. S. Somanath, Chairman of ISRO, delivered the Special Address.

During the ceremony, a total of 41 Gold Medals, 118 Rank Certificates, and 781 Degree Certificates were awarded to graduates, recognizing their academic excellence and achievements. The event highlighted the university's commitment to fostering academic excellence and contributing to the advancement of fisheries and ocean studies



3-Day Training Program on Food Safety and Management System at KUFOS

The Kerala University of Fisheries and Ocean Studies (KUFOS) successfully conducted a 3-day training program on 'Food Safety and Management System' from August 6 to 8, 2024, at the KUFOS Headquarters. The program was organized in collaboration with MakeIntern, the training partner of E-Cell, IIT Hyderabad, by the Department of Food Science and Technology (FOST) and

the Department of Food Safety and Quality Assurance (FFE).

The event was formally inaugurated by Hon'ble Vice Chancellor Dr. T. Pradeepkumar. The Faculty Coordinators were Dr. Maya Raman (Head, Dept. of Food Science and Technology), Dr. Jenny Ann John (Assistant Professor, FST), and Dr. Unnikrishnan (Head, Dept. of Food Safety and Quality Assurance). The



training program witnessed the participation of 50 students from B.Tech Food Technology, M.Sc. Food Science and Technology, and M.Sc. Microbiology.

Mr. Basavraj Meti, from MakeIntern, IIT Hyderabad, provided advanced training in food safety, equipping students with essential skills to safeguard public health, meet industry

standards, and enhance their career prospects in the food sector.

A unique highlight of the program was the opportunity for the top 5 performers to represent KUFOS at the National Level Zonal Championship to be held at IIT Hyderabad. The training program concluded with resounding success on August 8, 2024.

Capacity Building Training Programme on Aquatic Animal Disease Diagnosis at KUFOS

Kerala University of Fisheries and Ocean Studies (KUFOS) hosted a three-day Capacity Building Training Programme on Aquatic Animal Disease Diagnosis from 25th to 27th September 2024. The training, organized in collaboration with the Department of Aquatic Animal Health Management (AAHM), Faculty of Fisheries Science, the National Surveillance Programme for Aquatic Animal Diseases (NSPAAD), and the Government of Kerala, focused on water quality management, microbiology, and molecular techniques to enhance diagnostic skills for aquatic animal diseases.

Fifteen officials from the Fisheries Department of Kerala participated in the program, which aimed to develop skilled personnel to manage aquatic animal health laboratories across the state. The program was coordinated by Dr. Safeena M.P., Associate Professor and Head of the Department of AAHM, with the support of co-coordinators Dr. Gijo Ittoop and Dr. Rahul Krishnan, Assistant Professors in the same department.

The training culminated in a valedictory function, graced by Vice Chancellor, Prof. Dr. Pradeep Kumar T, and Registrar, Dr. Dineesh



Kaippilly, who commended the initiative for its contribution to advancing expertise in aquatic animal health management. An interactive session allowed participants to share feedback on the practical value of the training, followed by the distribution of certificates.

This initiative underscores the institution's commitment to addressing aquatic animal disease management challenges and mitigating the economic losses they cause. By actively engaging with farmers, the Fisheries Department aims to foster collaboration, support sustainable practices, and contribute to the doubling of farmers' incomes in the fisheries sector.



Investigation and Recommendations on Fish Kill Incident in Periyar River



The Kerala University of Fisheries and Ocean Studies (KUFOS) conducted a comprehensive study on the massive fish kill event in the Periyar River downstream of the Pathalam regulator, reported on 21 May 2024. The disaster, affecting thousands of aquatic organisms and local livelihoods, was linked to the opening of regulator shutters, which released polluted water containing toxic substances and drastically reduced dissolved oxygen (DO) levels.

The investigation, led by an expert committee from KUFOS, revealed that high concentrations of hydrogen sulfide and ammonia were primary contributors to the fish kill. These toxicants, combined with low DO and industrial effluents, created an anoxic environment detrimental to aquatic life. Analysis of water, sediment, and fish samples confirmed elevated levels of heavy metals, pesticides, and organic pollutants. The study also highlighted erratic fish behavior prior to death, suggesting acute exposure to these toxins.

The incident underscores the urgent need for improved pollution management and regulatory measures.

KUFOS recommends real-time water quality monitoring systems, stringent control of industrial effluents, and operational protocols for regulator shutters based on water quality data. Comprehensive biodiversity assessments and restoration efforts for the Periyar ecosystem were also proposed.

KUFOS emphasizes community involvement, awareness campaigns, and the use of Corporate Social Responsibility (CSR) funds for cleanup drives. The findings and recommendations from this study aim to prevent future occurrences, ensuring the ecological health of the Periyar River and the sustainability of dependent livelihoods



KUFOS Participates in Pollution Response Seminar and Workshop by Indian Coast Guard



Kerala University of Fisheries and Ocean Studies (KUFOS) actively participated in the two-day Pollution Response Seminar and Workshop, organized by the Indian Coast Guard (Kerala and Mahe) on August 22 and 23, 2024, at the Coast Guard District Headquarters in Kochi.

Dr. V. P. Limna Mol, Assistant Professor at KUFOS, along with ten postgraduate students from the Coastal and Harbour Engineering and Marine Biology courses, represented the university at the event. Dr. Limna Mol delivered a presentation on "Marine Debris and Plasticsphere – Major Concerns", which sparked an engaging discussion on plastic pollution and potential management strategies.

The second day featured a demonstration by the Cochin Port Authorities on oil spill control measures, showcasing advanced techniques and tools for pollution mitigation. The workshop facilitated active collaboration among various departments and agencies, emphasizing the collective effort required to address pollution challenges along Kerala's coastline.

KUFOS's participation highlights its dedication to addressing marine environmental issues and fostering sustainable coastal management practices.



Aquascaping and Tissue Culture Development of Aquarium Plants at KUFOS

At Kerala University of Fisheries and Ocean Studies (KUFOS), significant strides have been made in promoting the art and science of aquascaping. This craft involves arranging aquatic plants alongside rocks, stones, driftwood, or other natural elements to create aesthetically pleasing and functional ecosystems within aquariums. Planted aquariums serve not only as beautiful additions to homes but also as sustainable ecosystems, where the complementary relationship between fish and plants enhances water quality and reduces maintenance needs.

As part of this initiative, KUFOS has successfully developed fourteen commercially important aquarium plants free of pathogens through advanced tissue culture techniques. These pathogen-free plants are now available for sale, offering hobbyists and professionals high-quality options to create unique and sustainable aquascapes. This achievement aligns with KUFOS's commitment to innovation and sustainability in aquaculture and aquatic biodiversity conservation



Bucephalandra pygmy



Anubias barteri



Anubias barteri var nana



Anubias barteri var nanagold



Anubias barteri var petite



Microsorun pteropus (Java Fern)



Hemianthus callitricoides



Hemianthus micranthemoides



Micranthemum tweediei 'Monte Carlo'



Cryptochoryne lucens



Cryptochoryne wendtii



Cryptochoryne wendtii Brown



Cryptochoryne wendtii Green



Cryptochoryne wendtii Pink



Aglaonema simplex



Alternanthera reinckii "mini"



Eleocharis parvula



Anubias barteri var glabra

Terrarium: A Green Initiative at KUFOS



The Kerala University of Fisheries and Ocean Studies (KUFOS) has embraced the art of crafting terrariums as a part of its green initiatives. These low-maintenance, space-saving glass gardens are created using a variety of plants, moss, pebbles, wood, and even aquatic plants, forming self-contained miniature ecosystems that thrive with minimal care.

The use of terrariums as an innovative way to promote greenery in spaces where traditional plants cannot grow. By incorporating aquatic plants into terrarium designs, the initiative

highlights the versatility and aesthetic appeal of these living decorations.

Terrariums not only elevate indoor environments but also serve as eco-friendly gifts, perfect for enhancing home or office spaces. This hands-on activity encouraged creativity, environmental awareness, and sustainable practices among the participants.

The terrariums crafted are part of KUFOS's ongoing efforts to blend environmental sustainability with innovative education, showcasing how nature can be integrated into modern living.



Celebration of the 78th Independence Day at KUFOS



The 78th Independence Day was celebrated at Kerala University of Fisheries and Ocean Studies (KUFOS) with great patriotism and enthusiasm. The Hon'ble Vice Chancellor hoisted the National Flag in the presence of University authorities, officials, and staff. The event symbolized the institution's commitment to the values of freedom and national pride, fostering a sense of unity and dedication among all attendees

KUFOS Joins Global Campaign 'Ek Ped Maa Ka Naam – Plant 4 Mother'



- Kerala University of Fisheries and Ocean Studies (KUFOS) participated in the global campaign 'Ek Ped Maa Ka Naam – Plant 4 Mother' on August 29, 2024, by organizing a sapling plantation drive on its main campus. The Hon'ble Vice Chancellor, Dr. T. Pradeep Kumar, led the initiative by planting saplings, accompanied by university officers, faculty members, and students.

- The campaign reflects KUFOS's commitment to environmental sustainability and community

involvement, aligning with the global efforts to promote greener ecosystems while honoring the nurturing spirit of motherhood. This event underscored the university's role in fostering environmental stewardship and awareness among its academic community.

Seminar on "Right to Food for a Better Life and Better Future"



On October 16, 2024, the KUFOS Auditorium at the Kerala University of Fisheries and Ocean Studies (KUFOS) hosted a seminar titled "Right to Food for a Better Life and Better Future," organized by the Department of Food Science and Technology in collaboration with FSSAI Cochin and the AFSTI

Cochin Chapter. The seminar was presided over by Hon'ble Vice Chancellor Dr. Pradeep Kumar and inaugurated by Shri NSK Umesh, District Collector of Ernakulam. Shri Ashif A, Deputy Commissioner of Cochin Customs, graced the event as a special guest.

Distinguished speakers included Dr. Dinesh (Registrar, KUFOS), Dr. Suresh Kumar (Dean, Faculty of Ocean Science and Technology), Dr. Nambudiri (National Vice President, AFSTI), and Dr. B. Jacob Meledom (President, AFSTI Cochin Chapter), who shared valuable insights during the felicitation addresses. The event commenced with a welcome address by Smt. Dhanya, Deputy Director, FSSAI, and concluded with a vote of thanks by Dr. Maya Raman.

The seminar featured two technical sessions led by eminent experts—Shri M. Salim, Managing Director, Kerala State Consumer Federation, and Shri Soni P. Mani, MD & CEO, Farm-to-Dine. The program attracted a diverse audience, including industrialists, academicians, and students from Ernakulam district and neighboring regions, fostering discussions on the critical importance of food security and its role in shaping a sustainable future.

Orientation Programme for Faculty of Ocean Science and Technology Courses Inaugurated



The orientation programme for the courses offered by the Faculty of Ocean Science and Technology (FOST) at Kerala University of Fisheries and Ocean Studies (KUFOS) was formally inaugurated on July 10, 2024, at the KUFOS headquarters. The Hon'ble Vice Chancellor, Dr. T. Pradeep Kumar, presided over the event, emphasizing the importance of ocean sciences in

addressing global challenges and advancing sustainable practices.

The inaugural session was graced by Dr. Suresh, Dean of FOST, Dr. Sajeevan, Director of Extension (in charge), and Dr. Ranjeet, Director of Planning (in charge), along with faculty members and students. The programme provided an overview of the courses and

their relevance in fostering academic excellence and practical expertise in the field of ocean science and technology.

This event marked the beginning of an exciting academic journey for students, setting the tone for their engagement in cutting-edge research and innovation in ocean sciences.

Bangor University Delegation Visits KUFOS to Explore Collaborative Opportunities



On September 6, 2024, Ms. Louise Morgan, Deputy Director of International and Mobility at Bangor University, UK, visited the Kerala University of Fisheries and Ocean Studies (KUFOS) and interacted with faculty members to discuss potential areas of collaboration. She was accompanied by Mr. Karan Veer, Indian Administration Head, Bangor University; Mr. Ajay Chandran, ODEPEC; and Mr. Aroan Yoshith, Director of Research (i/c) at KUFOS.

The meeting, attended by Deans of Faculties and Heads of Departments, focused on exploring international cooperation and mobility opportunities. Ms. Morgan provided an overview of Bangor University's academic and research strengths, emphasizing its international programs and expertise in marine and environmental sciences.

Dr. Pradeepkumar T, Hon'ble Vice Chancellor of KUFOS, presented the university's academic programs and highlighted its unique research initiatives in fisheries and ocean studies.

Both institutions expressed enthusiasm for establishing joint research projects, particularly in marine and environmental sciences, and discussed opportunities for student exchange programs and staff development.

The meeting concluded on a positive note, with both universities committed to exploring the proposed areas of cooperation. This potential partnership promises to foster academic excellence and expand opportunities for students and faculty at both institutions.

KUFOS Hosts National Workshop on Aquatic Ecosystem Assessment

The Centre for Aquatic Resource Management & Conservation (CARMC) at Kerala University of Fisheries and Ocean Studies (KUFOS) organized a five-day National Training Workshop on Aquatic Ecosystem Assessment from August 5 to 9, 2024. Designed for young professionals from universities and colleges across India, the workshop aimed to provide hands-on training in wetland ecosystem management and conservation, empowering participants to implement similar initiatives at the local level.

The workshop was inaugurated on August 5, 2024, by Shri Loknath Behera IPS, Managing Director of Kochi Metro Rail Limited (KMRL). The event commenced with a welcome address by Dr. Rajeev Raghavan, Assistant Professor at KUFOS. Dr. V. N. Sanjeevan, Professor Chair of CARMC, highlighted the objectives and significance of the workshop in advancing aquatic ecosystem management. Dr. T. Pradeep Kumar, Vice Chancellor of KUFOS, presided over the function and emphasized the importance of ecosystem conservation and KUFOS's contributions to this critical area.

The workshop's training manual was released by Shri. Loknath Behera IPS, who underscored the need for innovative strategies in wetland conservation, drawing attention to his experience with the Kochi Water Metro, India's first water metro project. The session also reflected on recent environmental disasters, such as the Wayanad landslide, highlighting the urgency for improved ecosystem management practices.

Dr. K. Dinesh, Registrar of KUFOS, felicitated the program, reiterating the university's dedication to environmental research and education. The inaugural session concluded with a silent prayer for the victims of the



Chooralmala and Mundakkai disasters in Wayanad. Dr. Anu Gopinath, Professor at KUFOS, delivered the vote of thanks, acknowledging the contributions of all involved in making the event a success.

The ongoing workshop features expert-led sessions and interactive discussions on aquatic ecosystem assessment tools and techniques, aiming to develop robust management strategies for sustainable conservation practices.



KUFOS Participates in Beach Clean-Up Drive at Puthuvyppu Beach



Kerala University of Fisheries and Ocean Studies (KUFOS) actively participated in the Beach Clean-Up Drive organized as part of the Swachhta Hi Seva Campaign 2024 by the Marine Products Export Development Authority (MPEDA), under the Ministry of Commerce and Industry, Government of India. The event, held on Friday, September 27, 2024, at Puthuvyppu Beach, Ernakulam district, saw enthusiastic involvement

from KUFOS students, research scholars, and faculty members from the Department of Marine Biosciences, coordinated by Dr. V. P. Limna Mol.

The clean-up initiative was conducted in collaboration with Cochin Port Trust, Indian Coast Guard, and the Fisheries Department and ran from 3:00 PM to 5:00 PM. This activity was part of a larger effort to promote environmental sustainability and cleanliness under the

Swachhta Hi Seva Campaign, a flagship program of the Swachh Bharat Mission.

KUFOS's participation in this campaign highlighted its commitment to fostering environmental awareness and contributing to the preservation of coastal ecosystems. The initiative served as a platform to instill a sense of responsibility and proactive involvement in maintaining cleanliness among participants

KUFOS Participates in International Workshop on Sustainable Fisheries

Kerala University of Fisheries and Ocean Studies (KUFOS) actively participated in the one-day International Workshop on "Pathway to Sustainable Fishery on the Indian Coast" organized by the Indian Marine Ingredients Association (IMIA) on 23rd June 2024 in Bangalore.

The Hon'ble Vice Chancellor, Dr. T. Pradeep Kumar, delivered a special address emphasizing the importance of sustainable practices in the Indian fisheries sector, while Registrar, Dr. Dinesh Kaippilly, led an engaging panel discussion, contributing valuable insights on the challenges and opportunities in advancing sustainability.

KUFOS's involvement in this workshop underscores its commitment to fostering sustainable fisheries and promoting interdisciplinary dialogue for the betterment of the sector.



Student Training Programme under DBT Skill Vigyan



On July 10, 2024, the Student Training Programme under DBT Skill Vigyan was inaugurated by Hon'ble Vice Chancellor Dr. T. Pradeepkumar at KUFOS. The programme is being implemented by the Department of Fish Processing Technology in collaboration with the KUFOS Business Incubation Centre.

This three-month training programme features various specialized modules designed to enhance skill development. Upon successful completion, students will receive certificates approved by Skill India, empowering them with industry-recognized qualifications to support career advancement in the fisheries and allied sectors.

കുഫോസ്-മണപ്പുറം മെറിറ്റ് ഇൗവനിംഗ് 2024

മണപ്പുറം ഗ്രൂപ്പിന്റെ Corporate Social Responsibility വിഭാഗമായ മണപ്പുറം ഫൗണ്ടേഷൻയും കുഫോസും ചേർന്ന് സംഘടിപ്പിച്ച കുഫോസ്-മണപ്പുറം സ്കോളർഷിപ്പ് ഇൗവനിംഗ് 2024 ഉദ്ഘാടനം ബഹുമാനപ്പെട്ട വൈസ് ചാൻസലർ പ്രൊഫ. (ഡോ.) ടി. പ്രദീപ് കുമാർ നിർവ്വഹിച്ചു. രജിസ്ട്രാർ പ്രൊഫ. (ഡോ.) കെ. ദിനേഷ് അദ്ധ്യക്ഷത വഹിച്ച ചടങ്ങിൽ, മണപ്പുറം ഫൗണ്ടേഷൻ ജനറൽ മാനേജർ മി. ജോർജ്ജ് മോറേലി മുഖ്യാതിഥിയായി പങ്കെടുത്തു.

മണപ്പുറം ഹോം ഫിനാൻസ് HR വിഭാഗം ഹെഡ്, മിസ്സർ ബെന്നി K. H., ആശംസകളും നേർന്നു. ചടങ്ങിൽ FFM ഡീൻ ഡോ. അഫ്സൽ

സാഗതവും DBAM മേധാവി ഡോ. രാജേഷ്. K. നന്ദിയും രേഖപ്പെടുത്തി.

2015-ൽ മണപ്പുറം ഫൗണ്ടേഷനും കുഫോസും തമ്മിൽ ധാരണാപത്രം ഒപ്പുവച്ചു. ഇതിന്റെ ഭാഗമായ മെറിറ്റ് സ്കോളർഷിപ്പ്, ഓരോ വർഷവും, ഓരോ സെമസ്റ്ററിലേയും മികച്ച പ്രകടനം കാഴ്ചവയ്ക്കുന്ന അഞ്ചു വിദ്യാർത്ഥികൾക്ക് ലഭിക്കുന്നു. ഇതിൽ രണ്ട് പേർ ഓപ്പൺ മെറിറ്റിൽ നിന്നും മൂന്നു പേർ ഫിഷറീസ് കുടുംബത്തിൽ നിന്നും തിരഞ്ഞെടുക്കപ്പെടുന്നു. 20000 രൂപ വീതമാണ് ഓരോ വിദ്യാർത്ഥിക്കും സ്കോളർഷിപ്പ് തുകയായി ലഭിക്കുന്നത്.

ഈ പരിപാടി, വിദ്യാർത്ഥികളുടെ സമർപ്പണവും അധ്യാപന നിലവാരവും ഉയർത്താൻ പ്രചോദനമായേക്കും.



Boosting Conservation: Stock Enhancement Of Yellow Catfish In Sasthamcotta Lake

In March 2024, Kerala University of Fisheries and Ocean Studies (KUFOS) took a significant step toward the conservation of the threatened *Yellow Catfish (Horabagrus brachysoma)* by introducing over 300 advanced fingerlings into **Sasthamcotta Lake**, Kerala's largest freshwater lake. This initiative is part of the ongoing **Plan Project** focused on developing captive breeding protocols for the species and enhancing its populations in natural habitats.

The introduction of these fingerlings into Sasthamcotta Lake is aimed at

boosting the stock of the *Yellow Catfish* and ensuring the sustainability of this vulnerable species. This project is a key component of KUFOS's efforts to integrate research with practical conservation actions, ensuring the long-term survival and ecological balance of freshwater ecosystems in Kerala.

Through such initiatives, KUFOS continues to play a leading role in biodiversity preservation, providing solutions that support both environmental conservation and local community engagement.

എടുത്തുയങ്ങളുടെ വംശനാശം: തടാകത്തിലേക്ക് കൂടുതൽ കുഞ്ഞുങ്ങൾ



തന്ത്രമേഖലയുടെ നേതൃത്വത്തിൽ നടന്ന ഈ പദ്ധതിയുടെ ഭാഗമായി മണപ്പുറം സർവ്വകലാശാലയിൽ നിന്ന് നേടിയെടുത്ത 300-ഓളം അധ്വാനം ചെയ്ത ഡി.ബി.സി. ന്റെ സമുദായ സർവ്വകലാശാലയിൽ ഉള്ള കരിമ്പാൽ, അതിന്റെ ഭാഗമായി വെള്ളിയാഴ്ച തുടങ്ങിയ അന്നുമുതൽ ഏതാണ്ട് 200 കുഞ്ഞുങ്ങളെ ആഴ്ചയിൽ അകത്തൽ നിക്ഷേപിച്ചു. തടാകത്തിൽ ഏറ്റവും കൂടുതൽ ഉത്പാദനം ഉണ്ടാക്കുന്ന ഏകദേശം ഏഴു മുട്ടുവെള്ളി കൂട്ടങ്ങളിലാണ് കുഞ്ഞുങ്ങൾക്കു കൈമാറ്റം. പ്രതികൂല പാർശ്വ ഫലം സാധ്യമാക്കുന്ന തുടർന്ന് കൈമാറ്റത്തിനിടെ ഏതാണ്ട് 200-ഓളം കുഞ്ഞുങ്ങൾ വളർത്താനായി പദ്ധതിയോട് ചേർന്ന് പ്രവർത്തിക്കുന്നു. ഈ പദ്ധതിയുടെ ഭാഗമായി മണപ്പുറം സർവ്വകലാശാലയിൽ നിന്ന് നേടിയെടുത്ത 300-ഓളം അധ്വാനം ചെയ്ത ഡി.ബി.സി. ന്റെ സമുദായ സർവ്വകലാശാലയിൽ ഉള്ള കരിമ്പാൽ, അതിന്റെ ഭാഗമായി വെള്ളിയാഴ്ച തുടങ്ങിയ അന്നുമുതൽ ഏതാണ്ട് 200 കുഞ്ഞുങ്ങളെ ആഴ്ചയിൽ അകത്തൽ നിക്ഷേപിച്ചു. തടാകത്തിൽ ഏറ്റവും കൂടുതൽ ഉത്പാദനം ഉണ്ടാക്കുന്ന ഏകദേശം ഏഴു മുട്ടുവെള്ളി കൂട്ടങ്ങളിലാണ് കുഞ്ഞുങ്ങൾക്കു കൈമാറ്റം. പ്രതികൂല പാർശ്വ ഫലം സാധ്യമാക്കുന്ന തുടർന്ന് കൈമാറ്റത്തിനിടെ ഏതാണ്ട് 200-ഓളം കുഞ്ഞുങ്ങൾ വളർത്താനായി പദ്ധതിയോട് ചേർന്ന് പ്രവർത്തിക്കുന്നു.

Milestone Achieved: Captive Breeding Protocol For Indigo Barb

Kerala University of Fisheries and Ocean Studies (KUFOS) proudly achieved a significant milestone by successfully developing a captive breeding protocol for Indigo Barb (Pethia setnai), a species of ecological and ornamental importance. This accomplishment marks a major step forward in sustainable aquaculture and conservation.

The first batch of seeds produced under this protocol was ceremoniously delivered to the Director of the Central Coastal Agricultural Research Institute (ICAR-CCARI), Goa. This initiative underscores KUFOS's commitment to advancing aquaculture research and supporting regional fisheries development.

The achievement not only enhances the potential for species conservation but also contributes to the livelihood opportunities of communities involved in ornamental fish trade and aquaculture.



കുറോയ്ക്ക് വികസിപ്പിച്ച കൃത്രിമ പ്രജനന സാങ്കേതിക വിദ്യയിലൂടെ ഉല്പാദിപ്പിച്ച ഇൻഡിഗോ ബാർബ് കൃത്യമായ രീതിയിൽ വിതരണം ചെയ്യാൻ കഴിഞ്ഞു. ഇതിനോടനുബന്ധിച്ച് കേന്ദ്ര കോസ്റ്റൽ കൃഷി ഗവണ്മെന്റിൽ നിന്ന് ഇൻഡിഗോ ബാർബ് വികസിപ്പിച്ചെടുക്കാനുള്ള സാങ്കേതിക വിദ്യ കൈമാറിയിട്ടുണ്ട്.

ഇൻഡിഗോ ബാർബ് ഇനിയും നീന്തിത്തുടിക്കും

പുനർജീവനം പ്രവർത്തനം മുന്നോട്ടു കൊണ്ടു വരുന്ന ഇന്ത്യയിലെ തന്നെ അപൂർവ്വതയോടെ കാണപ്പെടുന്ന ഇൻഡിഗോ ബാർബിന്റെ കൃത്രിമ പ്രജനന സാങ്കേതിക വിദ്യ വികസിപ്പിച്ചെടുക്കാനായി കേരള കടലാഴി വികസിപ്പിച്ചെടുക്കുന്ന സാങ്കേതിക വിദ്യ (കുറോ) ഗവണ്മെന്റിൽ നിന്ന് കൈമാറ്റം ചെയ്തെടുത്തിട്ടുണ്ട്. ഇൻഡിഗോ ബാർബ് (Pethia setnai) എന്നറിയപ്പെടുന്ന ഈ മത്സ്യം കേരളത്തിലെ പാലക്കാട് ജില്ലയിലെ കടലാഴി നദിയിൽ കാണപ്പെടുന്ന ഒരു അപൂർവ്വതയോടെ കാണപ്പെടുന്ന ഇനമാണ്. ഇന്ത്യയിലെ തന്നെ അപൂർവ്വതയോടെ കാണപ്പെടുന്ന ഇൻഡിഗോ ബാർബിന്റെ കൃത്രിമ പ്രജനന സാങ്കേതിക വിദ്യ വികസിപ്പിച്ചെടുക്കാനായി കേരള കടലാഴി വികസിപ്പിച്ചെടുക്കുന്ന സാങ്കേതിക വിദ്യ (കുറോ) ഗവണ്മെന്റിൽ നിന്ന് കൈമാറ്റം ചെയ്തെടുത്തിട്ടുണ്ട്. ഇൻഡിഗോ ബാർബ് (Pethia setnai) എന്നറിയപ്പെടുന്ന ഈ മത്സ്യം കേരളത്തിലെ പാലക്കാട് ജില്ലയിലെ കടലാഴി നദിയിൽ കാണപ്പെടുന്ന ഒരു അപൂർവ്വതയോടെ കാണപ്പെടുന്ന ഇനമാണ്. ഇന്ത്യയിലെ തന്നെ അപൂർവ്വതയോടെ കാണപ്പെടുന്ന ഇൻഡിഗോ ബാർബിന്റെ കൃത്രിമ പ്രജനന സാങ്കേതിക വിദ്യ വികസിപ്പിച്ചെടുക്കാനായി കേരള കടലാഴി വികസിപ്പിച്ചെടുക്കുന്ന സാങ്കേതിക വിദ്യ (കുറോ) ഗവണ്മെന്റിൽ നിന്ന് കൈമാറ്റം ചെയ്തെടുത്തിട്ടുണ്ട്.



ഇൻഡിഗോ ബാർബ് മത്സ്യം കേരളത്തിലെ പാലക്കാട് ജില്ലയിലെ കടലാഴി നദിയിൽ കാണപ്പെടുന്ന ഒരു അപൂർവ്വതയോടെ കാണപ്പെടുന്ന ഇനമാണ്. ഇന്ത്യയിലെ തന്നെ അപൂർവ്വതയോടെ കാണപ്പെടുന്ന ഇൻഡിഗോ ബാർബിന്റെ കൃത്രിമ പ്രജനന സാങ്കേതിക വിദ്യ വികസിപ്പിച്ചെടുക്കാനായി കേരള കടലാഴി വികസിപ്പിച്ചെടുക്കുന്ന സാങ്കേതിക വിദ്യ (കുറോ) ഗവണ്മെന്റിൽ നിന്ന് കൈമാറ്റം ചെയ്തെടുത്തിട്ടുണ്ട്.

ഇൻഡിഗോ ബാർബ് നശിക്കില്ല, കൃത്രിമ പ്രജനന സാങ്കേതികവിദ്യ തയ്യാർ

കേരള കടലാഴി വികസിപ്പിച്ചെടുക്കുന്ന സാങ്കേതിക വിദ്യ (കുറോ) ഗവണ്മെന്റിൽ നിന്ന് കൈമാറ്റം ചെയ്തെടുത്തിട്ടുണ്ട്. ഇൻഡിഗോ ബാർബ് (Pethia setnai) എന്നറിയപ്പെടുന്ന ഈ മത്സ്യം കേരളത്തിലെ പാലക്കാട് ജില്ലയിലെ കടലാഴി നദിയിൽ കാണപ്പെടുന്ന ഒരു അപൂർവ്വതയോടെ കാണപ്പെടുന്ന ഇനമാണ്. ഇന്ത്യയിലെ തന്നെ അപൂർവ്വതയോടെ കാണപ്പെടുന്ന ഇൻഡിഗോ ബാർബിന്റെ കൃത്രിമ പ്രജനന സാങ്കേതിക വിദ്യ വികസിപ്പിച്ചെടുക്കാനായി കേരള കടലാഴി വികസിപ്പിച്ചെടുക്കുന്ന സാങ്കേതിക വിദ്യ (കുറോ) ഗവണ്മെന്റിൽ നിന്ന് കൈമാറ്റം ചെയ്തെടുത്തിട്ടുണ്ട്.



കുറോയ്ക്ക് വികസിപ്പിച്ച കൃത്രിമ പ്രജനന സാങ്കേതിക വിദ്യ കൈമാറിയിട്ടുണ്ട്.

Breeding tech saves rare ornamental fish

KUFOS and CCARI develop captive breeding protocol for Indigo Barb.

The Indigo Barb (Pethia setnai) is a highly sought-after ornamental fish native to the Western Ghats region of Kerala. It is currently facing the threat of extinction due to rampant overfishing and habitat loss. A team of scientists from KUFOS and CCARI has successfully developed a captive breeding protocol for this species. The protocol involves artificial insemination and controlled breeding conditions, both in indoor and outdoor systems. This user-friendly technology can now yield an impressive 75-100 fingerlings from a single mother fish. The project received invaluable support from CCARI, which contributed by supplying the necessary stock fish and providing technical assistance. The research team is currently working on scaling up the production of seeds and releasing them into the wild to support conservation efforts.

KUFOS develops tech for captive breeding of ornamental fish

In a remarkable collaborative effort between KUFOS and the Central Coastal Agricultural Research Institute (CCARI) in Goa, a two-year research initiative was undertaken to develop artificial breeding technology for the Indigo Barb. Spearheaded by Anvar Ali, an assistant professor at the Department of Fisheries Resources Management at KUFOS, the project received invaluable support from CCARI, which contributed by supplying the necessary stock fish and providing technical assistance. The research team is currently working on scaling up the production of seeds and releasing them into the wild to support conservation efforts.

The Indigo Barb was bred in captivity under various conditions, both with and without hormone induction, within indoor and outdoor systems, while the larvae were cultivated in mixed zooplankton cultures. This user-friendly technology can now yield an impressive 75-100 fingerlings from a single mother fish. Anvar Ali emphasised that the seed production practices devised by KUFOS will offer alternative livelihood opportunities to local communities in Goa and, eventually, in other regions across the country. This pioneering project received support from the Kerala government, with funding allocated from its plan fund. The research team included junior research fellow Melbinlal, alongside CCARI scientists Srekanth G B and Triveesh Mayalee. The seeds generated at the KUFOS hatchery were formally handed over to CCARI Director Parveen Kumar by KUFOS Director of Extension, Dusey K, during a special event held on the campus this Tuesday.

Breakthrough In Conservation: Restocking Threatened Yellow Catfish

Kerala University of Fisheries and Ocean Studies (KUFOS) achieved a remarkable breakthrough in conservation by producing over 10,000 fingerlings of the threatened Yellow Catfish (Horabagrus brachyosoma). This effort is a significant contribution to the preservation and sustainable utilization of this vulnerable species, endemic to Kerala's freshwater ecosystems. The fingerlings were handed over to the Department of Fisheries, Government of Kerala, as part of the Reservoir Fisheries Development Project (2024-2025). They were released into the

Poringalkuthu Reservoir for aquaranching, a practice aimed at enhancing fish stocks in natural water bodies while maintaining biodiversity. This initiative reflects KUFOS's dedication to conservation-oriented research and its active role in supporting the state's fisheries sector through science-driven solutions. By addressing the challenges faced by threatened aquatic species, KUFOS continues to contribute to sustainable fisheries development and biodiversity conservation.

അണക്കെട്ടുകളിലെ മത്സ്യവർദ്ധനയ്ക്ക് പദ്ധതിയുമായി ഫിഷറീസ് സർവകലാശാല

പുറംതടയ്ക്ക് അണക്കെട്ടുകളിലെ മത്സ്യവർദ്ധനയ്ക്ക് പദ്ധതിയുമായി ഫിഷറീസ് സർവകലാശാല. ഇന്ത്യയിലെ തന്നെ അപൂർവ്വതയോടെ കാണപ്പെടുന്ന ഇൻഡിഗോ ബാർബിന്റെ കൃത്രിമ പ്രജനന സാങ്കേതിക വിദ്യ വികസിപ്പിച്ചെടുക്കാനായി കേരള കടലാഴി വികസിപ്പിച്ചെടുക്കുന്ന സാങ്കേതിക വിദ്യ (കുറോ) ഗവണ്മെന്റിൽ നിന്ന് കൈമാറ്റം ചെയ്തെടുത്തിട്ടുണ്ട്.



കേരള കടലാഴി വികസിപ്പിച്ചെടുക്കുന്ന സാങ്കേതിക വിദ്യ (കുറോ) ഗവണ്മെന്റിൽ നിന്ന് കൈമാറ്റം ചെയ്തെടുത്തിട്ടുണ്ട്. ഇൻഡിഗോ ബാർബ് (Pethia setnai) എന്നറിയപ്പെടുന്ന ഈ മത്സ്യം കേരളത്തിലെ പാലക്കാട് ജില്ലയിലെ കടലാഴി നദിയിൽ കാണപ്പെടുന്ന ഒരു അപൂർവ്വതയോടെ കാണപ്പെടുന്ന ഇനമാണ്. ഇന്ത്യയിലെ തന്നെ അപൂർവ്വതയോടെ കാണപ്പെടുന്ന ഇൻഡിഗോ ബാർബിന്റെ കൃത്രിമ പ്രജനന സാങ്കേതിക വിദ്യ വികസിപ്പിച്ചെടുക്കാനായി കേരള കടലാഴി വികസിപ്പിച്ചെടുക്കുന്ന സാങ്കേതിക വിദ്യ (കുറോ) ഗവണ്മെന്റിൽ നിന്ന് കൈമാറ്റം ചെയ്തെടുത്തിട്ടുണ്ട്.

Consulate General of Japan Visits KUFOS



Ms. Teraoka Mami, Advisor for Culture and Information at the Consulate General of Japan in Chennai, visited KUFOS to explore avenues for potential collaboration. The visit marked a significant step toward fostering international partnerships, with discussions focused on cultural exchange, academic collaboration, and shared initiatives in research and education. This engagement underscores KUFOS's commitment to global outreach and strengthening ties with international institutions



KUFOS Faculty Represents India at the Prestigious International Space Camp 2024



Dr. Athul Krishna K.R., Assistant Professor and Head (I/C) of the Department of Ocean Engineering, Faculty of Fisheries Engineering (FFE), KUFOS, had the distinct honor of representing India at the International Space Camp 2024. This prestigious event was held from October 19 to 24, 2024, at the Yu. A. Gagarin Research & Test Cosmonaut Training Centre (GCTC) in Moscow, Russia.

As a mentor and advisor to the top 10 candidates, Dr. Athul played a pivotal role in guiding the participants through this globally recognized program. His participation, made possible through a Humanitarian Visa, underscores KUFOS's commitment to fostering international collaboration and interdisciplinary innovation. This milestone brings pride to the institution and highlights its contributions to global academic and research excellence.

Honored at KUFOS

Dr. Grinson George, Director of CMFRI, Kochi, was honored at KUFOS in the presence of the Hon. Vice Chancellor, Dr. T. Pradeepkumar, Registrar Dr. Dinesh Kaippally, and the university's officers and HoDs. An esteemed alumnus of the 1995 BFSc batch, Dr. George is a renowned scientist with exceptional research accomplishments. With his appointment to the highest position in marine research in India, KUFOS looks forward to fostering even stronger collaboration in academic and research endeavors between the two institutions



ICAR ADG visits KUFOS

Dr. Bimlesh Mann, ADG of EP&HS at ICAR, visited KUFOS and engaged in fruitful interactions with faculty and students. During her visit, she expressed appreciation for the activities and initiatives at KUFOS and assured continued support from ICAR in advancing the university's academic and research goals



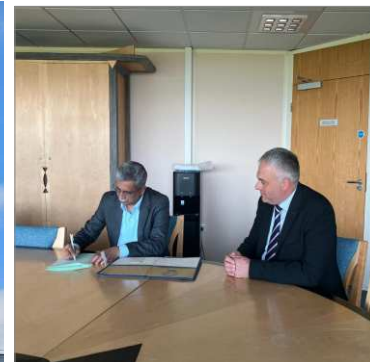
NSS Activities at KUFOS

The NSS units at KUFOS actively contributed to social responsibility, community engagement, and environmental sustainability through diverse programs in 2023-24. Key initiatives included the Swachhata Hi Seva campaign promoting cleanliness, the Meri Mati Mera Desh campaign honoring national heritage, and awareness drives on road safety, HIV/AIDS, and voter participation. Volunteers participated in orientation sessions, cultural events like Kerala Piravi celebrations, and impactful programs such as Yuva Samvad and Pulwama Remembrance Day. The units also organized a special camp focusing on community surveys and creating the campus garden Sneharamam. Observances of International Women's Day and World Water Day further showcased the commitment of KUFOS NSS to fostering positive change and empowering youth for a sustainable future.



KUFOS Establishes Academic Partnership with Bournemouth University, UK

Kerala University of Fisheries and Ocean Studies (KUFOS) has entered into a Memorandum of Understanding (MoU) with Bournemouth University, United Kingdom. This strategic partnership aims to foster academic and research collaborations, facilitating the exchange of knowledge, expertise, and resources between the two institutions. The agreement underscores KUFOS's commitment to advancing global cooperation in fisheries and ocean studies, benefiting students, faculty, and researchers alike.



Events.....

▶ Activities of the Pratidhi Students' Union 2023-24

The Pratidhi Students' Union at KUFOS organized a wide array of events and initiatives during the academic year 2023-24, fostering student engagement, creativity, and awareness on various fronts. Here are the highlights:

Union Inauguration – November 29, 2023

The Pratidhi Students' Union was officially inaugurated at the KUFOS Seminar Complex, with the Hon'ble Vice-Chancellor presiding over the event. The inaugural ceremony marked a new chapter in student representation and collaboration with the university administration.

"Say No to Dowry" Campaign – December 12, 2023

This campaign raised awareness about the harmful practice of dowry, inspiring students and staff to stand against this societal ill and advocate for equality and fairness.

"Alag Aasmaan" New Year Party – January 5, 2024

The Students' Union welcomed the new year with a grand celebration, featuring music, dance, and cultural performances. The event fostered a sense of unity and excitement among students.

Fish Fest – January 12-14, 2024

Organized as part of the International Fisheries Congress, the Fish Fest showcased a variety of fish species, fish products, and educational exhibits, promoting awareness of the fisheries sector.



Events.....

Photo Recreation Contest – February 10, 2024

This creative competition encouraged participants to recreate iconic photographs, highlighting their artistic and photographic skills.

"Kaathal" Valentine's Day & Ethnic Day – February 14, 2024

A dual celebration of love and culture, the event featured students in ethnic attire, emphasizing diversity and tradition while fostering camaraderie.

Annual Sports Meet – March 2-6, 2024

The Annual Sports Meet brought together students across departments for athletic competitions, promoting teamwork, fitness, and sportsmanship.

Holi Celebration – March 25, 2024

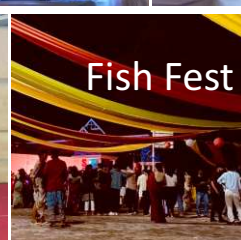
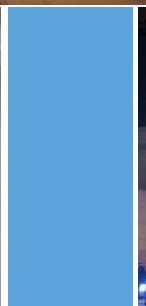
The festival of colors was celebrated with enthusiasm, as students participated in a joyful celebration featuring music, dancing, and camaraderie.

Iftar Gathering – April 5, 2024

The Union hosted an Iftar event, providing an opportunity for students to break their fast during Ramadan, fostering community and inclusivity.

Seminar: "From Kerala to the World" – April 18, 2024

This seminar offered guidance on pursuing master's degrees abroad in marine sciences, equipping students with valuable insights and resources for international education.



Events.....

Book Fest – April 23-24, 2024

The Book Fest promoted a culture of reading and learning, offering a wide selection of books and engaging literary activities.

Environment Day Celebration – June 5, 2024

The Union celebrated Environment Day with activities like tree planting, clean-up drives, and educational sessions, inspiring students to take action for sustainability.

Arts Fest: "Kala Kaalam Kalaapam" – September 9-12, 2024

This vibrant arts festival showcased students' talents through music, dance, and art exhibitions, celebrating creativity and culture.

Cloth Collection Drive: "Kuppayam" – October 29, 2024

In collaboration with Green Worms Waste Management, the Union organized a successful cloth collection drive, promoting sustainability through donations and recycling.

Film Fest: "Cine Gala" – October 29-30, 2024

Held in the Seminar Hall transformed into a traditional cinema theatre, the Film Fest provided students with a unique and nostalgic cinematic experience.

Through these events, the Pratidhi Students' Union has significantly contributed to the holistic development of students, fostering a vibrant and inclusive campus culture at KUFO



NAVAL NCC AT KUFOS.....

Naval NCC Recruitment 2023 at KUFOS



Kerala University of Fisheries and Ocean Studies (KUFOS) successfully conducted the Naval NCC (National Cadet Corps) Recruitment 2023 on October 1st. The event offered students an exceptional opportunity to join the naval wing of the NCC and engage in leadership development, naval training, and skill-building programs.

The program was inaugurated by the CTO-KUFOS, Dr. Anoop K.K., and included a comprehensive orientation session that introduced participants to the activities, commitments, and opportunities offered by the Naval NCC. The recruitment process involved a series of assessments, including physical tests, basic medical

examinations, and interviews to evaluate the suitability of candidates.

Selected cadets will receive training in various areas such as naval drills, swimming, seamanship, navigation, sailing, and survival techniques at sea. In addition to these technical skills, cadets will participate in leadership workshops, cultural programs, community service initiatives, and national camps.

Becoming a part of the Naval NCC at KUFOS equips students with valuable certifications and leadership skills, enhancing their career prospects. Cadets who achieve the prestigious NCC 'C' Certificate with high grades can access direct entry opportunities in the Indian Armed Forces and other defense roles. They are also eligible for NCC scholarships and allowances.

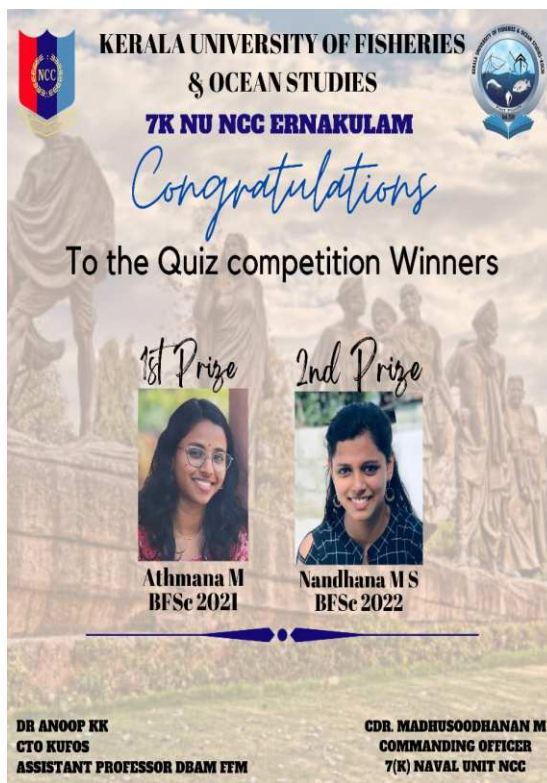
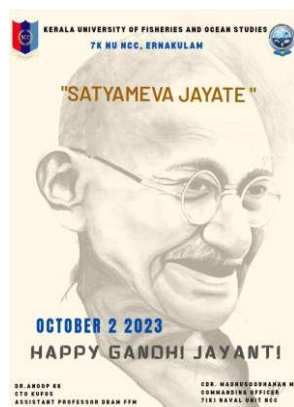
This initiative underscores KUFOS's commitment to holistic student development, fostering discipline, and encouraging service to the nation while offering students a platform to explore maritime and defense careers.

Gandhi Jayanti Celebration At KUFOS

Kerala University of Fisheries and Ocean Studies (KUFOS) commemorated Gandhi Jayanti on October 2 with a special celebration honoring Mahatma Gandhi's life and timeless values. This year's program included an engaging online quiz competition, which tested students' knowledge of Gandhi's principles, historical contributions, and philosophies.

Athma M from the BFSc 2021 batch secured the first position, while Nandhana MS from the BFSc 2022 batch achieved second place. The winners were felicitated by Dr. Anoop K.K., CTO of KUFOS, during the event.

The celebration highlighted the university's commitment to promoting the values of truth, non-violence, and service exemplified by Mahatma Gandhi, inspiring students to reflect on his enduring legacy.



NAVAL NCC AT KUFOS

World Food Day Celebration at KUFOS

Kerala University of Fisheries and Ocean Studies (KUFOS) marked World Food Day on October 16 with initiatives aimed at raising awareness about food security, sustainable agriculture, and nutrition. The event aligned with the global mission of achieving "Zero Hunger" and encouraged students and faculty to reflect on responsible food consumption and the importance of sustainability.

As part of the celebrations, the KUFOS Naval NCC unit organized a food donation drive, "Oru Pidi," on October 17, 2023. This heartfelt



initiative aimed to support destitute individuals in the community who seek shelter in public places like bus stands and railway stations. A total of 180 pothichoru (traditional packed meals) were distributed at locations such as Ernakulam South Railway Station, South Bus Stand, and Vyttila Hub.

The drive exemplified the spirit of generosity and social responsibility, bringing together the university community to make a tangible impact on the lives of those in need. Such acts of kindness not only provide immediate relief but also inspire others to contribute to creating a more compassionate society.

EBSB Kerala Camp 2023



The Ek Bharat Shreshtha Bharat (EBSB) program, a flagship initiative of the Government of India, aims to strengthen the bonds of unity by fostering mutual understanding and appreciation of India's cultural diversity.

As part of this initiative, the EBSB Camp in Kerala was conducted under the aegis of the National Cadet Corps (NCC). The camp provided a platform for cadets from across the country to immerse themselves in Kerala's rich culture, heritage, and traditions while promoting the spirit of national integration.

The EBSB Kerala Camp emphasized the celebration of "Unity in Diversity" by encouraging participants to explore regional distinctiveness and shared national values. Through interactive activities, cultural exchanges, and training sessions, the program inspired a sense of pride and camaraderie among the youth, contributing to the strengthening of India's unity.

LC Madhur Garg, representing KUFOS, was selected to participate in the EBSB Camp held in Ettumanoor, showcasing the university's active engagement in national programs that promote cultural harmony and national pride.

Children's Day Celebration at KUFOS

Kerala University of Fisheries and Ocean Studies (KUFOS) joined the nation in celebrating Children's Day on November 14, commemorating the birth anniversary of Pandit Jawaharlal Nehru. This occasion serves as a reminder of the importance of nurturing the well-being, rights, and development of children.

The theme for this year's celebration, "For Every Child, Every Right," underscored the global commitment to ensuring access to education, healthcare, protection from exploitation, and opportunities for a safe and fulfilling life. The event at KUFOS emphasized the need for collective efforts to create an environment where all children, regardless of their background, can thrive and achieve their potential.

The program highlighted the university's dedication to fostering awareness about children's rights and promoting inclusive and equitable practices that contribute to the overall development and well-being of children.

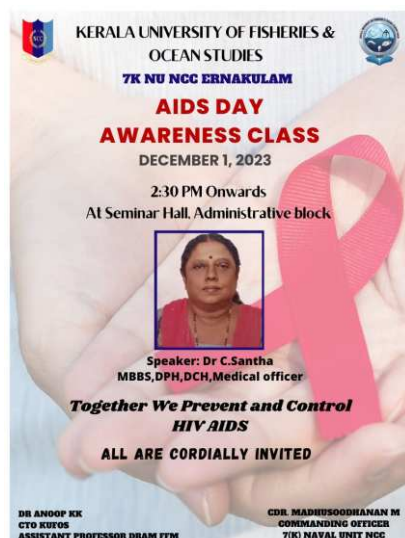
NAVAL NCC AT KUFOS

World Aids Day Observation at KUFOS

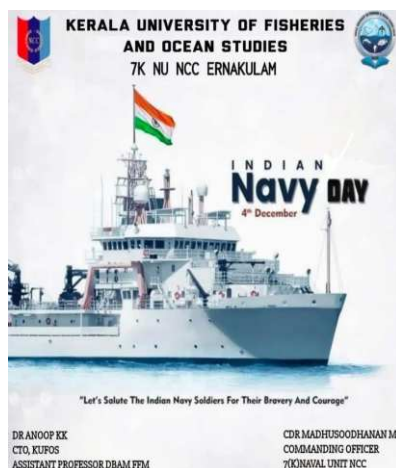
Kerala University of Fisheries and Ocean Studies (KUFOS) observed World AIDS Day on December 1, reaffirming its commitment to raising awareness about HIV/AIDS and promoting education, prevention, and empathy. This global event serves as a platform to honor those who have lost their lives to the disease and to support individuals living with HIV/AIDS.

The highlight of the program at KUFOS was an insightful lecture delivered by the university's Medical Officer, Dr. C. Santha, MBBS, DPH, and DCH. The session provided valuable information on HIV transmission, prevention strategies, available treatment options, and the critical role of early testing. Dr. Santha also addressed the social stigma associated with HIV/AIDS, encouraging empathy, understanding, and a supportive approach toward those affected by the condition.

This initiative underscored the importance of fostering an informed university community and contributed to reducing misconceptions about HIV/AIDS. Through such programs, KUFOS continues to promote health education and advocate for a stigma-free, compassionate environment.



Indian Navy Day Celebration at KUFOS



Kerala University of Fisheries and Ocean Studies (KUFOS) observed Indian Navy Day on December 4, honoring the courage and dedication of the Indian Navy in safeguarding the nation's maritime borders. This day commemorates the successful naval operation during the 1971 India-Pakistan war, a pivotal moment in India's history.

The theme for this year, "Operational Efficiency, Readiness, and Mission Accomplishment in the Maritime Domain," highlighted the Navy's unwavering commitment to operational excellence and mission readiness.

At KUFOS, the celebration aimed to inspire students by raising awareness of the Indian Navy's vital role in ensuring national security and showcasing career opportunities within the naval forces. The program featured engaging activities and discussions, emphasizing the strategic importance of maritime operations and the Navy's contributions to India's defense and global maritime presence.

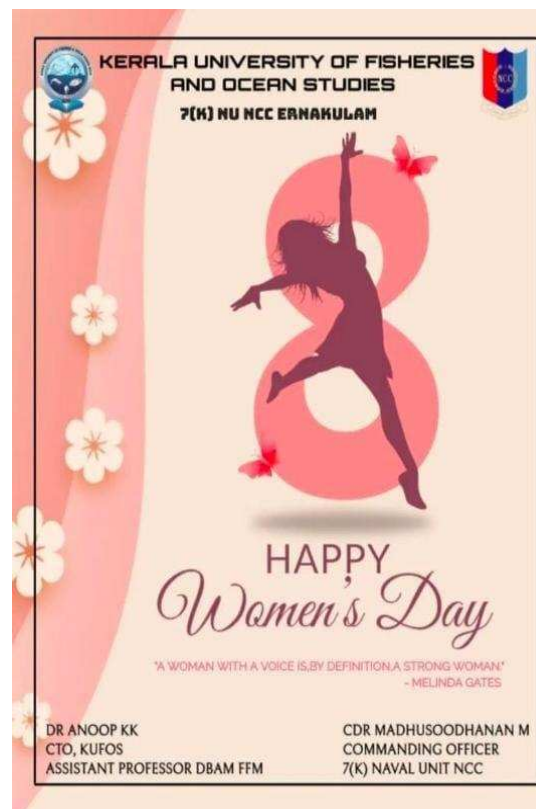
Through this observance, KUFOS reaffirmed its dedication to instilling patriotism and fostering an understanding of India's naval heritage among its students.

Women's day celebration by ncc unit at KUFOS

The NCC Unit at Kerala University of Fisheries and Ocean Studies (KUFOS) celebrated Women's Day with a vibrant program dedicated to honoring the achievements, contributions, and empowerment of women.

The event served as a platform to raise awareness about gender equality, women's rights, and the indispensable roles women play in fields such as education, leadership, and community development. Through inspiring discussions and activities, the program highlighted the importance of fostering an inclusive and equitable environment for women to thrive.

By celebrating Women's Day, the NCC Unit reaffirmed its commitment to promoting gender equality and empowering women to reach their fullest potential in all spheres of life.



NAVAL NCC AT KUFOS.....

World environment day celebration by ncc unit at KUFOS

Kerala University of Fisheries and Ocean Studies (KUFOS) observed World AIDS Day on December 1, reaffirming its commitment to raising awareness about HIV/AIDS and promoting education, prevention, and empathy. This global event serves as a platform to honor those who have lost their lives to the disease and to support individuals living with HIV/AIDS.

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This initiative underscored the importance of fostering an informed university community and contributed to reducing misconceptions about HIV/AIDS. Through such programs, KUFOS continues to promote health education and advocate for a stigma-free, compassionate environment.



International yoga day celebration at KUFOS



Kerala University of Fisheries and Ocean Studies (KUFOS) celebrated the International Day of Yoga on June 21, 2024, with great enthusiasm, joining the global effort to promote physical, mental, and spiritual well-being through the practice of yoga.

The theme for this year emphasized the integration of yoga into daily life as a pathway to achieving better health and inner peace. The celebration commenced with a group yoga session, where NCC cadets, faculty, and staff actively participated. The session included a series of yoga asanas, pranayama (breathing exercises), and meditation, offering participants an opportunity to experience the holistic benefits of yoga.

The event highlighted the importance of adopting yoga as a daily practice to enhance physical health, mental clarity, and emotional balance. By promoting such initiatives, KUFOS reaffirms its commitment to fostering a culture of wellness and mindfulness within the university community.

Rashtriya Ekta Divas Celebration at KUFOS

Kerala University of Fisheries and Ocean Studies (KUFOS) observed Rashtriya Ekta Divas on October 31, 2024, commemorating the birth anniversary of Sardar Vallabhbhai Patel, the stalwart of India's independence and the architect of national integration. The day was dedicated to emphasizing the values of unity, integrity, and harmony in India's diverse society.

The celebration began with a pledge-taking ceremony led by the KUFOS Naval Unit of NCC. The cadets, including Senior Division (SD) and Senior Wing (SW) members, solemnly pledged to uphold the unity and integrity of the nation. The pledge served as a powerful reminder of the importance of collective efforts in maintaining the nation's cohesion.

Through this observance, KUFOS reinforced the ideals of Rashtriya Ekta Divas, inspiring the university community to contribute to a united and stronger India.



Physical Education at KUFOS.....

Physical Education Department Instagram Page & Logo Launch

KUFOS Physical Education Department logo and Instagram page launched on 20th December 2023 by KUFOS Registrar Dr. Dinesh Kaippilly. Physical Education Department Teacher Assistant Prof. Britto Clemmy, Pratidhi Students Union General Secretary Smt. Athmana, Sports Secretary Shri. Thejus Prasannan participated in the programme.



Jersey Launch

Jerseys for University Volleyball Team participating in South Zone Inter University Tournament was distributed on 20th December 2023. KUFOS Registrar Dr. Dinesh Kaippilly presented the jersey to Aadith (captain volleyball team). Physical Education Department Teacher Assistant Prof. Britto Clemmy, Pratidhi Students Union General Secretary Smt. Athmana, Sports Secretary Shri. Thejus Prasannan participated in the programme.



South Zone Inter-university Tournament

The volleyball team captained by Adith S (BFS-20) was able to participate in the South Zone Inter-University Volleyball Tournament held from December 21-25, 2023 at Visvesvaraya Technological University, Belagavi.



The women's volleyball team captained by Fida Moiteenkutty (BTech-20) was able to participate in the South Zone Inter-University Women's Volleyball Tournament held from December 27-31, 2023 at Sri Padmavathi Mahila Vishwavidyalaya, Tirupati.



The University Table-Tennis Team was able to participate in the South Zone Inter-University Table-Tennis Tournament held from February 1-3, 2024 at Tamil Nadu Dr. Ambedkar Law University, Chennai.

Physical Education at KUFOS



The football team captained by Salomon Eldos (MBA) was able to participate and perform well in the South Zone Inter-University Football Tournament held from December 24-30, 2023 at SRM Institute of Science and Technology, Chennai.



The University Basketball team captained by Athul S (BFSc-22) was able to participate in the South Zone Inter-University Basketball Tournament held from November 01-05, 2024 at Christ University Bangalore.



The University Badminton team was able to participate in the South Zone Inter-University Badminton Tournament held from October 26 - 29, 2024 at SRM Institute of Science and Technology, Chennai.



Mohammad Rameesh KP(BFSc-21) and Ananthu P Babu(MBA) were able to represent the university in the South Zone Inter-University Athletic Meet held at Tamil Nadu Physical Education and Sports University, Chennai from 29 December 2023 to 1 January 2024.

The cricket team captained by Adarsh MA (MFSc-22) was able to participate in the South Zone Inter-University Cricket Tournament held from January 7-12, 2024 at Hindustan Institute of Technology & Science, Chennai.

National Inter-university Athletic Meet

Anitta Joseph(BFSc-20) and Anchitha K(BTech-20) were able to represent the university in the National Inter-University Athletic Meet held at Kalinga Institute of Industrial Technology, Bhubaneswar from December 26-29, 2023.

University Sports Meet 2023-24

The University Sports Meet 2023-24 was held on March 2-6, 2024. KUFOS Registrar Dr. Dinesh Kaippilly inaugurated the Sports Meet. Chief Guest Indian Women's Blind Football Team Asst.Coach Smt. CV Seena inaugurated the Sports Meet. Department of Physical Education H.O.D Dr. Arun S, Physical Education Department Teacher Asst. Prof. Britto Clemmy, Students' Union Asst. Patron Dr. Gijo Ittoop, Pratidhi Students Union Chairperson Malavika MB, Pratidhi Students Union General Secretary Smt. Athmana, Sports Secretary Shri. Thejus Prasannan participated in the event. KUFOS Vice Chancellor Dr Pradeep Kumar T inaugurated the closing ceremony of the program. KUFOS Vice-Chancellor Dr. Pradeep Kumar T, Students' Union Assistant Patron Dr. Gijo Ittoop, Department of Physical Education H.O.D Dr. Arun S, Physical Education Department Teacher Asst. Prof. Britto Clemmy distributed the medals for the winners. Mohammad Rameesh KP (BFSc-21) was selected as the best athlete (Men) and Anitta Joseph (BFSc-20) as the best athlete (Women). Levionz (Batch-20) won the Sports meet Overall Champions Trophy. Posedions (MSc) won the runners-up trophy and Trivionz (Batch-21) won the second runners-up trophy.

International Yoga Day – June 21

International Yoga Day was observed on June 21, 2024 under the leadership of KUFOS Physical Education Department, NSS Unit KUFOS, NYKS. KUFOS Registrar Dr. Dinesh Kaippilly inaugurated the event. A yoga exhibition was organized under the leadership of Chief Guest Devraj P V.

Ernakulam District Cricket League

The University Cricket Team participated in Ernakulam District Cricket League and performed well in the tournament. The team was captained by Adarsh M A (MFSc-22).





List of Publications.....

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 <https://doi.org/10.1016/j.jneumeth.2024.110060>

Afsal E.M. and Mohammed Roshif U (2023) , “Impact of Intellectual Capital on Firm Performance: An Empirical Investigation on Indian IT Sector by using VAIC Method”, *Proceedings of the Social Science Research Colloquium- 2024*, published by SCMS Cochin School of Management and SCMS School of Management and Technology , pp.73-87

Anoop K.K and Remy T.V (2021) A study on effect of Brand Awareness on Customer Satisfaction and Customer Loyalty with selected Sports Brands in the *Journal of the Asiatic Society of Mumbai*, Vol. 95, Issue 12 (2), 2021- December. ISSN: 0972-0766, P.P 115-121

Anoop K.K and Remy T.V (2022) Perception of Professional Students towards Online Learning during Covid-19 in *Shodhsamhita*, Vol 8, Issue 12 (1), 2021 – 2022. ISSN 2277-7067

Ardra, M., *Pradhan, C., Das, S., & Pillai, D. (2024). The effect of fishmeal replacement with organic acid fermented black soldier fly (*Hermetia illucens*) larvae meal on growth, nutrient utilization, metabolic enzyme activity, antioxidant status and immunity in *Pangasius (Pangasianodon hypophthalmus)*. *Aquaculture*, 591, 741114.

Arunachalasivamani Ponnusamy, Radhika RajasreeS Roopa Rajan, Fathima Ashraf (2024) , Chitosan silver nanoparticle inspired seaweed (*Gracilaria crassa*) biodegradable films for seafood packaging, *Algal Research Biomass Biofuels and Bioproducts* , Vol. 78, March 2024, 103429 .IF 5.276

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List of Publications.....

- Janisben Bino and Anoop K. K.,(2023) Exploring the Nexus of Entrepreneurial Self-Efficacy: A Comprehensive Review and Future Directions Conference proceedings; International conclave on globalizing Indian thought (GIT 2023) , Indian Institute of Management, Kozhikode (ISBN: 978-93-5408-083-8)
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► List of Publications.....

- Revanth Raju and Anoop K.K., (2023) A Study to Understand the Benefits of Malted drinks among children under concrete operational stage, edited book; Business Management and Allied Disciplines, published by Abhijeet Publications, New Delhi, ISBN 978-93-92816-29-1
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- Revanth Raju and Anoop K.K., A Study on the shopping behaviour exhibited by parents during Covid-19 Pandemic”, Journal of Fundamental and Comparative Research, (ISSN 2277-7067) Volume 8, Issue 1291), 2021-22
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- T V, S. and KUMAR, A.S.S. (2024) 'Influence Of Linear And Step Tapering Strategies On Muscular Fitness In Long Distance Runners', *Annals of the Bhandarkar Oriental Research Institute*, Volume-CI(3). 55-62
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Roopa Rajan, Fathima Ashraf and Radhika Rajasree S R*. 2022. Development and characterization of novel ulvan- sodium alginate composite film for effective packaging applications in food processing industry. 12th Indian Fisheries Aquaculture Forum (IFAF), Chennai. 5-7th May 2022.

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Roopa Rajan, Fathima Ashraf and Radhika Rajasree S R*. 2023. Structural, Thermal and Antioxidative Potentials of Biopolymer Composites Incorporated with Green Macroalgal (*Halimeda* sp.) Extracts as a Sustainable Approach. 21st Prof K V Thomas Endowment Seminar & 4th International Symposium on New Trends in Applied Chemistry (NTAC). 6-7th February 2023.

Sethu MR, **Limna Mol V P**, 2023. A study on urban green space and urban heat islands in taluks associated with central Vembanad Lake. National Seminar on the Future of Geographic Information System, Department of Climate Variability and Aquatic Ecosystems, KUFOS, November 2023.

Alok K, Siljo Joseph, **Limna Mol V P** 2024. Study of Mangrove associated lichens from Central Vembanad Lake, Kerala. International Fisheries congress and Expo – 2024, KUFOS, College of fisheries Panangad Alumni Association, 12-14 January.

Ayana PP, **Limna Mol V P**, 2024. Microalgal colonization on microplastics from Vembanad Lake and Cochin coast, India: implications for benthic diatom dominance and diversity dynamics. International Fisheries congress and Expo – 2024, KUFOS and College of fisheries Panangad Alumni Association, 12-14 January.

Sethu MR, Baiju PT, Alok K, **Limna Mol V P**, 2024. Efficacy of small scale RPAS for monitoring urban-suburban mangroves. International Fisheries congress and Expo – 2024, KUFOS and College of fisheries Panangad Alumni Association, 12-14 January.

Manjumol CC, Dhanya Sabukuttan, Deepa B, **Limna Mol V P**, 2024. Synthesis and characterisation of carbon quantum dots from marine cyanobacteria *Marileptolyngbya* nov. sp. KMBMA-1. International Conference on Advanced Nanoscience and Nanotechnology (ICAN-2024), Department of Chemistry, Mar Athanasius College, 5-6 June.

Manjumol CC, **Limna Mol V P**, 2024. Morphological and molecular characterisation of marine cyanobacteria, *Arthrospira* sp. isolated from the coastal waters of South Andaman. 36th Swadeshi Science Congress, NIT, Calicut, 8-11 February.

Manjumol CC, **Limna Mol V P**, Nevin KG 2024. *Marileptolyngbya* KMBMA-1 sp. Nov. (Synechococcales) novel species of marine cyanobacteria isolated from the coastal waters of Andaman, India. International Fisheries congress and Expo – 2024, KUFOS and College of fisheries Panangad Alumni Association, 12-14 January.

Vishnula CL, Shireen PM, Manjumol CC, **Limna Mol V P** 2024. Phytoplankton-zooplankton interrelationships in a tropical estuary: a microcosm approach. International Fisheries congress and Expo – 2024, KUFOS and College of fisheries Panangad Alumni Association, 12-14 January.

Shilpa Sasidharan, Reenu George, Manjumol CC, Jenny Ann John, Emilda Rosmine, **Limna Mol V P** 2024. Optimisation of culture conditions of red microalga *Porphyridium cruentum*. International Fisheries congress and Expo – 2024, KUFOS and College of fisheries Panangad Alumni Association, 12-14 January.

Navya A, **Limna Mol VP**, Manjumol CC, Ayana PP, Emilda Rosmine, Abhilash KR 2024. Seaweed microtopography – Indications of fouling inhibition potential. International Fisheries congress and Expo – 2024, KUFOS and College of fisheries Panangad Alumni Association, 12-14 January.

HariPriya TD, Sreeraj CR, **Limna Mol VP**, 2023. Malacofaunal diversity in Kerala mangroves. Molluscs of South Asia: Research, conservation and Livelihoods, Ashoka Trust for Research in Ecology and the Environment and Indian Institute of Sciences, 11-13, December.

Antony Nirmal, Adarsh P G, Ann Mariya Anto, Kalyani B, Sibila Babu, Sreelakshmi V, K Varundev, Alok K, Sethu MR, V Ayana PP Baiju P T, **V P Limna Mol**. Swarm of Hydrozoa in The Nettoor Region of Central Vembanad Lake, Kerala. MARICON 2024 organized by CUSAT & NCPOR, 8-10 April.

Ayana PP, **VP Limna Mol**, Swetha MK, Emilda Rosmine, R. Senthil Kumar, 2024. Structural analysis of biofilm formed by macroplastic associated microalgae from Vembanad Lake. MARICON 2024 organized by CUSAT & NCPOR, 8-10 April.

Emilda Rosmine, Anaina G Raj, sethu MR, Shireen P Mohammed, **Limna Mol VP**, 2024. Microplastic analysis from sediments of southwest coast of India. MARICON 2024 organized by CUSAT & NCPOR, 8-10 April.

Sethu MR, Alok K, Sreelakshmi K, Aiswarya Anand, Swetha MK, Fathima KH, **VP Limna Mol**, 2024. Liquid Tree: Air quality enhancement using microalgae. MARICON 2024 organized by CUSAT & NCPOR, 8-10 April.

Mariyam Johna J, Baiju P T, Sethu M R, Shireen P Mohammed, **V. P Limna Mol.**, 2024. Ecology & Systematics of Two Colonial Zoanthids from Kollam, Kerala, South west Coast of India. MARICON 2024 organized by CUSAT & NCPOR, 8-10 April.

Sethu M R, Alok K, Abhirami Muraledharan, Baiju P. T., **Limna Mol V. P.**, 2024. Spatial assessment of avifauna diversity associated with Central Vembanad Lake System during Monsoon Season. MARICON 2024 organized by CUSAT & NCPOR, 8-10 April.

Sonamol Zacharia, Shilpa Sasidharan, C.C Manjumol, Shireen P Mohammed, Sethu M.R, Alok K, Ayana P.P, **V.P. Limna Mol**, 2024. Microplankton Dynamics in Pollethai Mudbank Region of Alappuzha, Kerala, SW Coast of India. MARICON 2024 organized by CUSAT & NCPOR, 8-10 April.

Naishana N Adarsh P G, Akshaya K, Nandita Renjith. Vishnupriya, Harif Parengal, Sethu M.R, Baiju P.T, **V.P. Limna Mol**, 2024. Impact of Climate Change on The Ecological Niche and Habitat Suitability of *Rhincodon typus* A. Smith, 1828 Whale shark. Tropical Biosummit (CTBC), 8-10 June.

V K Varundev, Amal Haridas, Shibila Babu C, Adheena K G, Riswana V N, Harif Parengal, Sethu M R, Baiju P T, **V P Limna Mol**, 2024. Assessing the Impact of Climate Change on the Habitat Sustainability and Ecological Niche of *Hippocampus kudu* Bleeker, 1852 (Spotted Seahorse) through Niche Modelling. Tropical Biosummit (CTBC), 8-10 June.

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Antony Nirmal, Sethu M R, Baiju P T, **Limna Mol V P**, 2024. First report of *Apogonichthyoides uninotatus* from the west coast of India, Arabian sea. Tropical Biosummit (CTBC), 8-10 June.

Kalyani B, Antony Nirmal, Arya Mahesh, Bhavya Suresh, Faheema K Maitheen, Lakshmi Remesh, Sreelakshmi V, Nanditha Ramesh, Aleena Binoy, Aparna Selvan, Sethu MR, Baiju PT, **V P Limna Mol**, 2024. Connectivity and Dispersal of Marine Organisms using Remote Sensing and Geospatial Tools along Kerala, South-West coast of India. Tropical Biosummit (CTBC), 8-10 June.

Ayana PP, Sethu MR, Antony Nirmal, Swetha MK, **Limna Mol VP**, 2024. Identifying plastic pollution hotspots of Vembanad lake, Kerala, India: An integrated approach using artificial intelligence and spatial analysis. NCMPE 24, 25th - 27th, September.

Afsal E.M. (2023), "A study on the Behaviour of Select Agricultural Commodities in Indian Commodities Market" at International Conference on Business Education in the New Millennium- The Way Forward (BEM 2023) organised by School of Management and Business Studies, Mahatma Gandhi University, India and Association of Chartered Certified Accountants (ACCA), London on 6th and 7th March 2023 at Mahatma Gandhi University, Kottayam, Kerala, India

Afsal E.M. and Mohammed Roshif U (2023) , "A study on relationship between corporate governance and intellectual capital efficiency of Indian IT companies" at International Conference on Business Education in the New Millennium- The Way Forward (BEM 2023) organised by School of Management and Business Studies, Mahatma Gandhi University, India and Association of Chartered Certified Accountants (ACCA), London on 6th and 7th March 2023 at Mahatma Gandhi University, Kottayam, Kerala, India

Nayana S and Afsal E.M. (2023) "Electric Vehicles in India: A Roadmap towards Sustainable Future" at Eight International Conference organised by Justice KS Hegde Institute of Management in association with Rotterdam School of Management, The Netherlands, University of Pennsylvania, USA, University of Connecticut, USA AND Chanakya University, India during 28th and 29th December.

Anna Riya Roy and Rajesh Kenoth (2023), "Social Inclusion of Persons with Disability Through Accessible Tourism: A Case Study of Kerala" at the 16th ISDSI-Global Conference 2023 under the theme "Reimagining Globalization: The Power of Digital Interconnection in a Deglobalizing World", organized by IIM Ranchi on 26th to 29th December 2023.

Anagha Biju and Rajesh Kenoth (2024), presented paper titled "Influence of social media marketing on youth migration" on 3rd International Conference -Marketing Transformations: Reimagine, Realign & Rework conducted by IIM Shillong on 30 and 31st January 2024.

Revanth Raju and Anoop K K (2024), presented paper titled "Revolutionizing marketing strategies for malt-based food drinks among children in Kerala: A fusion of behavioral Reasoning and health economics theories for transformative impact" on 3rd International Conference -Marketing Transformations: Reimagine, Realign & Rework conducted by IIM Shillong on 30 & 31 January

Revanth Raju and Anoop K K (2023) presented a paper titled " Role of green consumers in driving demand for healthier and sustainable malted drinks" on 19th may 2023, at the National conference on the title " Emerging trends in sustainability and business management organized by Naipunnya Business School, Koratty, Thrissur

Janisben Bino and Anoop K. K.,(2023) presented a paper titled " Exploring the Nexus of Entrepreneurial Self-Efficacy: A Comprehensive Review and Future Directions" on 14-16, 2023, at the Fourth International Conclave on Globalizing Indian Thought(GIT 2023) organized by Indian Institute of Management Kozhikode.

Revanth Raju and Anoop K K (2023) presented a paper titled "Marketing Strategies and Children's Influence: A Comparative Analysis of Malted Health Drink Brands" on 14-16, 2023, at the Fourth International Conclave on Globalizing Indian Thought(GIT 2023) organized by Indian Institute of Management Kozhikode.

Revanth Raju and Anoop K K (2023) presented a paper titled "Application of behavioural reasoning and health economics theory to children's malt based food drink intake in Kerala" at the Third International conference on innovations and disruptions for sustainable development held at Lead College of Management, Palakkad on 15th -17th March 2023.

Revanth Raju and Anoop K K (2023) presented a paper titled "A Study to Understand the Benefits of Malted drinks among children under concrete operational stage" at the International conference on Business Management and Allied Disciplines (ICBMAD-2022) organized by Institute of Management in Kerala and School of Distance Education, University of Kerala on 22nd to 24th August 2022.

Amritha P and Anoop K K (2024)) presented a paper titled " Unleashing the power of experience: evaluating the effectiveness of Experiential marketing in the sports goods" at the International Conference on Management Research Sahrdaya-SIMS 2024 organised by Sahrdaya Institute of Management Studies (SIMS), Kodakara on 6th and 7th June 2024.

Amritha P and Anoop K K (2024) presented a paper titled " Game changing experiences: The power of experiential marketing in sports goods" at the International Conference on The future of Economics, Finance & Management in the cosmopolitan Era organised by Bharata Mata Institute of management in association with university of Colombo on 24th and 25th April 2024.

Santhimol T J (2024) presented a paper titled " Can Sustainable Branding Strategies in Marine Adventure Tourism Effectively Contribute to Achieving SDG 14 (Focusing on Life Below Water)? " at the International Conference on Management Research Sahrdaya- SIMS 2024 organised by Sahrdaya Institute Of Management Studies (SIMS),Kodakara On 6th and 7th June 2024.

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.;

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.;

Chamundeshwari Bitli and Amrutha R Krishnan (2024, December 12 – 14); STUDY OF TRADITIONAL FISHING TRAPS OF

► Papers presented in conference/seminars.....

SELECTED WATER BODIES OF WANAPARTHY DISTRICT, TELANGANA; International Fisheries Congress and Expo 2024 (IFCE-2024); [conference publication], KUFOS, Kochi.;

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