

UNIVERSITY

NEWSLETTER

TNJFU

*Vol. 8 No.11
November 2021*

*From the Desk of
Vice-Chancellor.....*



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Dear Readers,

Soil is the basis of all life including that of humans. Soil quality is an important factor in fish pond productivity as it controls pond bottom stability, pH and salinity of overlying water and concentrations of nutrients required for the growth of phytoplankton, the base of the food chain, thus influencing the productivity in aquaculture. The overexploitation of soil with excess inorganic inputs results in loss of its richness and natural attributes of sustaining life. Richness means that soil has high organic content in it. The soil in rain forests of the tropics is said to have as much as 60% of organic content sustaining rich biodiversity. The minimum organic content of soil for normal agriculture should be about 3 – 6%, whereas in India about 60% of the soil has less than 0.5% of organic content. Desertification and erosion are major threats to the topsoil on our planet and most of the soil has already degraded and only about 50 to 60 years of soil is left with us for food production. Scientists use the term, Soil extinction which renders the soil unavailable for any life processes.

Emphasizing the importance of soil, World Soil Day is observed every year on December 5 since 2014 and its campaign in 2021, "Halt soil salinization, boost soil productivity" aims to raise awareness of the importance of maintaining healthy ecosystems and human well-being by addressing the challenges in soil management, fighting soil salinization, increasing soil awareness among all to improve soil health. Salt-affected soils have serious impacts on soil functions, resulting in a decrease in agricultural productivity, water quality and soil biodiversity. There seems no better way to overcome this soil desertification/salinization/erosion/extinction than improving the green cover on earth which would revitalize the soil. We need conscious people to do that as it is a real challenge confronting our very existence. Therefore, I urge everyone in the University to initiate measures by which we create awareness and save our soil to avert eventual disaster.

I am glad that FCRI, Thoothukudi has taken up a tree plantation drive on the campus with the support of the Rotary Club Trailblazers, which is a sure way of greening the campus and request others to follow such collaborations as a measure during this month of World Soil Day. The Ponneri campus has initiated a small stretch of Miyawaki forest on its premises with the collaboration of the forest department to improve the green cover. The CoFE, Nagapattinam and FC&RI, Thalainayeru campuses have also initiated tree plantation ahead of the monsoon and with all our efforts we could contribute to achieving the objectives of the World Soil Day about which the whole scientific community is concerned about.

Every journey begins with a single step and all our little efforts will make a big impact in saving our topsoil.

**Dr. G. Sugumar, Ph.D.,
Vice-Chancellor**

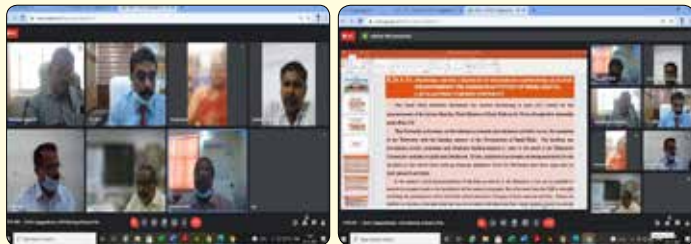
Published by

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VC EVENTS

24th Meeting of Board of Management

The Vice-Chancellor, TNJFU chaired the 24th Meeting of the Board of Management through virtual mode on 01.11.2021.



Inauguration of Biofloc Demonstration Unit

The Vice-Chancellor inaugurated the Biofloc Demonstration Unit at Dr. MGR Fisheries College and Research Institute, Thalainayeru on 02.11.2021.



Online Meeting for Identification of State Fish of Tamil Nadu

The Vice-Chancellor, TNJFU conducted a separate online meeting on 10.11.2021 with all the University Officers to discuss about the identification of 'State Fish of Tamil Nadu'.

SRGW at CoFE, Nagapattinam

The Vice-Chancellor attended the Students Research Guidance Workshop (SRGW) at College of Fisheries Engineering, Nagapattinam on 12.11.2021. The 2020-21 batch M.Tech (Fisheries Engineering) students presented their research topics to the Vice-Chancellor, Director of Research in-charge, Dean, Dr.MGR FRCI, Thalainayeru and Dean i/c, CoFE, Nagapattinam.



University Officers Meeting

The Vice-Chancellor, TNJFU conducted the 47th University Officers meeting through virtual mode on 18.11.2021.



Tree Planting Programme at FCRI, Thoothukudi

As part of the Green Campus Initiative, the Fisheries College and Research Institute, Thoothukudi, and the Rotary Club (Trailblazers), Thoothukudi jointly organised a "Tree Planting" programme at Fisheries College and Research Institute, Thoothukudi on 19.11.2021. The Vice-Chancellor, TNJFU participated as Chief Guest and in his presidential address, underlined the importance of planting trees as a source of hope for humanity. Rtn. Dr.E.Flora Juanita, Charter President of the Rotary Club of Thoothukudi (Trailblazers), gave a speech about the Rotary 4 Way Test and the value of being a Rotarian. The Vice-Chancellor of TNJFU, Dean in charge of FCRI, Thoothukudi, Rotary Club Officials, faculty staff and students planted a total of ten tree saplings in various places of the institute. A pledge was also administered to the staff, students and other audience on the observance of "National Integration Day"



Online Meetings for Conducting the 12th IFAF

The Vice-Chancellor, TNJFU conducted meetings with all the University Officers for hosting the 12th Indian Fisheries Aquaculture Forum (IFAF) through virtual mode on 02.11.2021, 17.11.2021, 18.11.2021 and 24.11.2021.

Awareness Programme at MRFF, Tharuvaikulam

In commemoration of World Fisheries Day 2021, an Awareness Programme on Conservation and Management of Fisheries was conducted by the Fisheries College and Research Institute, Thoothukudi at Mariculture Research Farm Facility (MRFF), Tharuvaikulam on 20.11.2021.



The Vice-Chancellor participated as Chief Guest and in his address, he stressed the importance of sustainable fisheries management and celebration of World Fisheries Day. A total of 60 fisherfolk participated in this programme. Dr.N.V.Sujathkumar, Dean i/c, FCRI, Thoothukudi presided over the function. Mr. T. Vijayaragavan, Assistant Director of Fisheries, Fisheries and Fishermen Welfare Department, Mrs.K.Kadodi, President, Tharuvaikulam,

Mr.T.Lourduraj, President Co-operative Society, Tharuvaikulam, Mr.A.Anthoniraj, President, Mechanised boat owners Association, Tharuvaikulam also participated in this programme.

Inauguration of Training Programme at CIVE, Thoothukudi

The Vice-Chancellor inaugurated the 6 day (22.11.2021 to 27.11.2021) On-Campus Training Programme on "Deep Sea Fishing" organized by the Directorate of Incubation and Vocational Training in Fisheries, Ramanathapuram, at Centre of Incubation and Vocational Training in Fisheries (CIVE), Fishing Harbour Campus, Thoothukudi on 22.11.2021.



COLLEGE NEWS

Fisheries College & Research Institute, Thoothukudi Soft-Skill Programme

A one-day special programme on "Entrepreneurship Skill Development" was organised for 64 III B.F.Sc. students on 11.11.2021 and for 27 M.F.Sc. and Ph.D. students on 18.11.2021 with M/s Pearlcity Academy on Leadership and Management Skills (PALMS), Thoothukudi. An interactive session on basic methods of improving self-confidence and attitude, entrepreneurship skills and work efficiency were taught to the students. Mrs. D.Manimekalai, Assistant Professor, Department of Aquatic Environment Management and Dr. B. Sivaraman, Assistant Professor, Department of Fish Quality Assurance and Management coordinated. Dr.N.V.Sujathkumar Dean i/c presided over the programme.



National Workshop



A National Workshop on "Recent Methodologies and Tools in Fisheries Research" was organized by the Department of Fish Pathology and Health Management through online mode on 13.11.2021. Acquiring a new skill to become efficient in recent methodologies and research tools is considered to be of prime importance for all postgraduate students and faculties of TNJFU. The aim was to enable participants to understand the research methods and tools in fisheries research and to have hands-on training on reference management tools such as Mendeley.

Dr. G. Sugumar, Vice-Chancellor, TNJFU in his inaugural address stressed the need for enhancing the skills and competenc of researchers and also congratulated the faculty and participants. Dr. B. Chrisolite, Assistant Professor and Head, Department of Fish Pathology and Health Management, FC&RI, Thoothukudi welcomed the participants. Dr. N.V. Sujathkumar, Dean.i/c, FC&RI, Thoothukudi spoke on the importance of research methods.

Dr. P. Krishnan, Principal Scientist, ICAR-NAARM, covered a topic on Building Right Perspectives to the Changing Research Paradigm; Forefront Technologies in Aquaculture Research was handled by Dr. Ferosekhan, Scientist, ICAR-CIFA and Research Tools and Software for Research Students was presented by Dr. I. Sivaraman, Scientist, ICAR-CIFA. 106 participants attended.

World Fisheries Day 2021

As part of World Fisheries Day celebrations, a drawing competition on 'Impact of Climate Change on Fisheries' was conducted among the students.



During the function, A.Afrin Banu, III BFSc welcomed the gatherings. C.J.Eupho, III BFSc delivered a note on World Fisheries Day 2021. Sahaya Roopna, I BFSc and Rajeshweri, III BFSc read a poem on World Fisheries Day. Dr.N.V.Sujathkumar, Dean i/c highlighted the depletion of fisheries resources in marine and freshwaters. Staff and students have administered the pledge of World Fisheries Day. Mr.M.Manikandan, General Secretary of Students' Association proposed a vote of thanks. Dr.S.Athithan, Vice President of Students' Association coordinated.

Communal Harmony Campaign Week 2021

To mark the Communal Harmony Campaign Week 2021, a campaign was organised by the college's NSS Unit on 25.11.2021. Dean i/c emphasised the importance



of Communal Harmony among the staff and students. The importance of marking Communal Harmony Week was explained by Dr. R. Santhakumar, Professor and Head, Department of Fisheries Extension, Economics and Statistics. The Director of the Directorate of Incubation and Vocational Training in Fisheries, Ramanathapuram, gave a lecture about the current state of communal harmony and the way forward in the coming days.

RYLA – 2021

Rotary club of SPIC Nagar, Thoothukudi organized Rotary Youth Leadership Awards (RYLA – 2021) on 26.10.2021 at this Institute. A lecture on Interviewing Techniques was delivered by Th. Ephrem Xavier, Academist Training – Chennai, International Trainer. Rtn. D.G.N. Muthaiah Pillai, R., delivered the chief guest address. Rtn. MPH. Rathakrishnan, R., Zone Advisor gave felicitation address. Dr. N. V. Sujathkumar, Dean in charge, delivered the presidential address. Dr. R. Santhakumar, Professor and Head, Department of Fisheries Extension, Economics and Statistics welcomed the gatherings.



Students Clinched Prizes



C.J.Eupho (III BFSc) and S.R. Keerthana (I BFSc) won II & III prizes in the elocution competition conducted during the function held on 29.11.2021 at VOC Port Trust in connection with the

observance of Vigilance Awareness Week 2021. The Dean i/c Dr.N.V.Sujathkumar and Dr.S.Athithan, Vice-Presidents of Students Association and staff appreciated the students.

Dr. M.G.R Fisheries College and Research Institute, Ponneri

Training Programmes



Training on "Advanced limited water exchange technologies" was conducted on 10.11.21 & 11.11.21, 15.11.2021 & 16.11.2021 and 24.11.2021 & 25.11.2021 respectively. All these training

programmes were sponsored by National Agriculture Development Programme 2020-21. A total of 150 participants participated. Advanced aquaculture technologies such as Biofloc technology, recirculation aquaculture technology and aquaponics technology were demonstrated to the participants.

Dept. of Fisheries Extension, Economics and Statistics conducted a two day training on Vannamei Shrimp Farming technology from 16.11.2021 to 17.11.2021. A total of 22 trainees participated.



Dr. B. Ahilan, Dean i/c of the institute inaugurated and spoke on the importance of the training programme. Participants were taken to a shrimp farm operating at Medhur, Pazhavaerkadu for gaining practical knowledge. Ms. Agnes Daney Angela, Asst. Professor & Head, DFEES and Dr. C. Lloyd Chrispin, Asst. Professor, DFEES coordinated.

Training and Capacity Building Programme for "Entrepreneurial Skills Development" was conducted from 26.11.2021 to 27.11.2021 for the students. Dr. B. Ahilan, Dean i/c, inaugurated.



Mr. D. Senthil Kannan, Director, and Mr. Nelson Victor, Trainer, PALMS Thoothukudi, delivered various lectures on entrepreneurship development in fisheries. The training was coordinated by Dr. D. Kaviarasu, Assistant Professor, Dr. MGR FC&RI, Ponneri.

'National Integration Day'

All the students, teaching and non-teaching staff took National Integration Day 'pledge on 27.10.2021 in the presence of Dean i/c of the institute, Dr. B. Ahilan.

"World Fisheries Day – 2021

NSS unit & Students association organized "World Fisheries Day – 2021 & 75th Anniversary of Indian Independence celebration on 20.11.2021 and 22.11.2021. Mr. Velan, Assistant Director of Fisheries, Thiruvallur inaugurated. Elocution on the "National and International scope for students who studied fisheries in Tamil medium" and drawing competition on the impact of climate change on Fisheries was conducted.



on 22.11.2021 Dr. B. Ahilan, Dean i/c inaugurated the World fisheries day'21 celebration by delivering the inaugural address. Dr. Cheryl Antony,

Professor and Vice president of Students' Association welcomed the gathering. Special lectures were delivered by Mr. Selvin Jayakumar, Department Manager (HR), M/s. CP Aquaculture, Chennai; Mr. M. Premraj, Assistant Vice-President, M/s. CP Aquaculture, Chennai; Mr. P. Ephrem, JP Aquatics, Chennai and Dr. K. Karl Marx, (Former Professor, TNJFU) Rhea Fish Farm, Thiruvallur. Mr. R. Velmurugan, NSS Programme officer, coordinated.

Dr. M.G.R Fisheries College & Research Institute, Thalainayeru

Entrepreneurship Development Programme

A One-day in-house training programme on "Entrepreneurial Skills Development" was organised for students on 09.11.2021. The sessions were handled by Mr. Senthil Kannan and Mr.



Nelson from M/s. Pearl city Academy for Leadership and Management Skills (PALMS) Trust, Thoothukudi. A total of 112 B.F.Sc. undergraduate students were benefitted.

National Education Day 2021



National Education Day was celebrated on 11.11.2021, to pay a tribute to Maulana Abul Kalam Azad on his Birth Anniversary. The students celebrated the day by perpetuating the impact of

education and educational policy among youth and it was nicely portrayed by Ms. Madhumitha and Mr. Kapilraj of first and third year. On this day, III year students also launched the survey on "Impact of COVID-19 in Fisheries Education - A Students Perspective" in the college for reflecting the thoughts of the individual students for summing up the suggestions for better learning in future. A motivational talk by the faculty Mr. Vijayaraghavan was also added as part of the celebration.

National Integration Day 2021



National Integration Day was observed on 19.11.2021. The teaching, non-teaching and students together 125 have taken the Pledge.

World Fisheries Day 2021

World fisheries day was celebrated on 22.11.2021 in the Vellapallam fishing village, Nagapattinam. Dr. S. Balasundari, Dean inaugurated the event and insisted the

celebration of fisheries day. Mr. S. Santhoshkumar, Assistant Professor explained fisheries resources and its conservation, Dr. V. Alamelu, Assistant Professor elaborated on the hygienic handling of fish, Mr. M. Mohamed Faizullah, Assistant Professor (Contractual) described the fish culture in cages, Mr. V. Durai, Assistant Professor enlightened the responsible fishing practices and Dr. S. Deepika, Assistant Professor insisted about the impact of marine pollution on marine fishery resources. 52 fishermen have participated and gained knowledge.



Awareness Programme

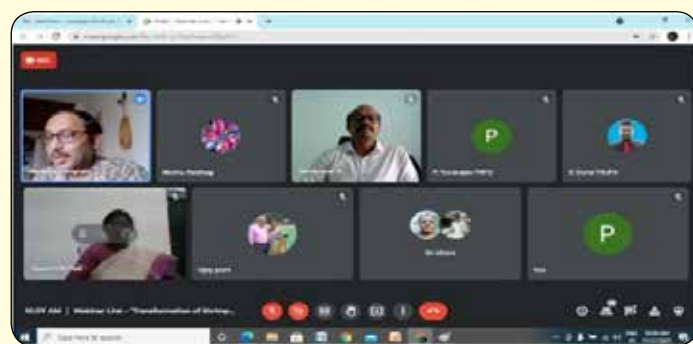
On 24.11.21, an awareness programme on "ANTIMICROBIALS IN AQUACULTURE: HANDLE WITH CARE" was organised to mark the "World Antibiotic Awareness Week" 2021. The programme was launched by



Dr. S. Balasundari, Dean. The technical session had three lectures. Dr. M. Petchimuthu, Assistant Professor (Contractual), DFPHM gave an in-sight on antibiotics usage in Fish health, Mrs. Abisha Juliet Mary S J, Assistant Professor, DFPHM talked about the emergence and spread of AMR from farm to human and Dr V. Alamelu, Assistant Professor, DFPT briefed about the AMR pattern of *Vibrio spp* due to the prudent use of antibiotics. The Shrimp farmers/Aquaculture consultants/students numbering 52 attended. A flyer on "Antibiotic resistance in Aquaculture from Farm to the Table" was also distributed.

Webinar

Organized a webinar on "Transformation of Shrimp



farming in India: Sustainability & Feasibility" on 27.11.2021. Dr. S. Balasundari, Dean inaugurated. Dr. Akshaya Panigrahi, Principal Scientist, ICAR-CIBA, Chennai has delivered a talk on "Warranted Research breakthroughs in Shrimp farming". Mr. B. Ravi kumar, Assistant Vice President – Technical

Growel Feeds Pvt Ltd., Andhra Pradesh gave a lecture on “Pragmatic approach in Shrimp farming”. A total of 58 participants such as farmers, faculty members, scientists and students attended the webinar.

College of Fisheries Engineering National Integration Day



National Integration Day was observed on 19th November 2021. Dr. Mohd Tanveer, Dean i/c of the College presided over the event. In his presence, teaching, non-teaching and students took the National Integration Day Pledge. More than 70 persons including faculty members, students, and non-teaching staff have participated.

Institute of Fisheries Postgraduate Studies Graduation Day

The Graduation day of the 1st batch of B. Tech (Biotechnology) students of the Institute of Fisheries Biotechnology (IFBT) was held on 24.11.2021. Dr. Baskaran Manimaran, Founder Vice-Chancellor, Tamil Nadu Dr. J. Jayalalithaa Fisheries University presided over the function. Dr. K. Kumanan, Officer-in-Charge, TNJFU-IFBT welcomed the gathering. Dr. S. A. Shanmugam, Dean, Basic



Sciences, IFPGS, felicitated the students. Dr. P. Jawahar, Controller of Examinations, TNJFU congratulated the students. Dr. Baskaran Manimaran, Founder VC, distributed the memento and prizes to the students and delivered the presidential address. Dr. V. Kaliyamurthy, Student Coordinator and Assistant Professor, IFPGS, TNJFU proposed the vote of thanks.

Entrepreneurial Skills Development programme

“Entrepreneurial Skills Development” was conducted on 25.11.2021. Students of the Institute of Fisheries Postgraduate Studies, Institute of Fisheries Biotechnology and Business School participated in the programme. M/s. PALMS (Pearl city



Academy for Leadership and Management Skills), Thoothukudi provided the training programme to the students. Dr. S.A. Shanmugam, Dean (Basic Sciences), IFPGS inaugurated the programme. Dr. E. Suresh, Assistant Professor organized the programme.

College of Fisheries Nautical Technology World Fisheries Day 2021

World Fisheries day was celebrated on 20th Nov 2021. The cadets and staff Mr. Dason Mario Santiago / Bosun, Dean Capt. S. Viswanathan and Visiting faculty Capt. Mohan Kumar visited the fishing harbour and interacted with the fishermen. A short training program on the use of the GPS and VHF was demonstrated to the boat drivers. The use of VHF when merchant vessels are coming close to the nets were explained to the boat divers.



National Integration Day

National Integration Day was observed on 19.11.2021. Staff of CFNT and CIVF have taken the national integration day pledge.



DIRECTORATES

Directorate of Extension Education

World Fisheries Day

ICAR-Krishi Vigyan Kendra, celebrated “World Fisheries Day” and Organized Training Programme on Fisheries Technologies on 21.11.2021. Mr. K. Ragu, SMS (Horticulture) welcomed



the gatherings and imparted lectures on vegetable cultivation under Aquaponics system. Dr. V. Kannan, SMS (Agronomy) elaborated the technologies on crop cultivation under the Integrated Fish farming system. Mr. E. Hino Fernando, SMS (Fisheries Extension) explained the subsidy schemes. Dr. A. Mathivanan, SMS (Fish Processing Technology) detailed the production of value-added fisheries products, market facilities and export potential for value-added fisheries products. Equipment for fish culture, Ornamental fishes and value-added fisheries products are exhibited. About 50 farmers and farm women attended.

Training programme

CIFT, Cochin sponsored training on “Hygienic Masala Dry Fish production through Solar Dryer” was conducted on 23.11.2021. Dr. A. Gopalakannan, Programme Coordinator, KVK, Nagapattinam welcomed the gatherings and explained the KVK activities and technical guidance

to the farming communities. Scientists from CIFT, Cochin Dr.V.Chandrasekar, Dr.K.Sathishkumar and Dr.S.Murali imparted skills. 30 women farmers from SC community and other SHG women farmers participated and benefited.

Directorate of Sustainable Aquaculture

Training Programme



A three days training program on “Recent Advances in Freshwater Fish Culture Practices” was conducted at KBCeSA, Barur from 24.11.2021 to 26.11.2021. A total of 30 farmers have attended. Lectures were handled by Dr. C. Anand, Mandapam, CeSA, Ms. S. Sangavi, Trichy CeSA, Mr. P. Velmurugan, ParakkaiCeSA and Mr. Kathirvel, Inspector KRP Dam, Krishnagiri.



Awareness Programme

In connection with World Fisheries Day-2021, an awareness program on “Importance of quality seed and proper stocking for sustainable aquaculture production” was organized at Dhoddathimmanahalli Village, Krishnagiri District, by KBCeSA, Barur on 20-11-2021. A total of 24 farmers have participated.



Directorate of Incubation and Vocational Training in Aquaculture

“National integration day”

Dr.N.Felix, Director, DIVA has administered the National Integration Day pledge to the staff and students on 19.11.2021.



“World Fisheries day”

Fish/shrimp feed distribution ceremony was conducted to celebrate World Fisheries Day, on 22.11.2021. Dr. N. Felix, Director, DIVA presided over the function and



distributed the ornamental fish feeds to the ornamental fish farmers.

Directorate of Incubation and Vocational Training in Fisheries

World Fisheries Day

On the eve of World Fisheries Day a one-day training programme entitled “Navigational signals and Sea safety” was jointly organized on 21.11.2021. Mr.M.Kalaierasan, Assistant Professor, welcomed the gathering. Dr.N.Neethiselvan, Director, DIVE, Ramanathapuram presided over the function. Mrs.Sreekirupa, Madurai Branch of Reliance foundation delivered felicitation addresses. Mr. A. Muruganatham, Basic Science faculty delivered the vote of thanks. Faculty handled sessions on Role of DIVE in the education and training on fishing technology and Navigational Signals and life-saving appliances



Celebration of Constitution Day

Tamil Nadu Dr. J. Jayalalithaa Fisheries University, has celebrated “Constitution Day” on 26th November 2021 to commemorate the adoption of the constitution of India and pay tribute to the invaluable contribution of Baba Saheb Dr.Bhimarao Ambedkar and other founding fathers of the constitution. As part of the celebration of Constitution Day, Tamil Nadu Dr.J. Jayalalithaa Fisheries University and its constituent units, Colleges and Institutes have organized Preamble reading, special talk on “Constitutional values and fundamental principles of Indian constitutions”, Quiz programmes, Essay writing, drawing competitions, Mock Parliament and special speech by the students.



Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Nagapattinam



College of Fisheries Engineering, Nagapattinam - TNJFU



Dr. MGR. Fisheries College & Research Institute, Thalainayeru



M.G.R. Fisheries College & Research Institute, Ponneri



Fisheries College and Research Institute, Thoothukudi



Institute of Fisheries Post Graduate Studies, Vaniyanchavadi, Chennai

From

**Director of Extension Education
Tamil Nadu Dr. J. Jayalalithaa
Fisheries University
Vettar River View Campus,
Nagapattinam - 611 002.**

To



Directorate of Incubation & Vocational training in Fisheries (DIVF – TNJFU) Ramanathapuram



College of Fisheries Nautical Technology, Thoothukudi



Directorate of Incubation & Vocational training in Aquaculture, (DIVA – TNJFU) Muttukadu, Chennai



Kanniyakumari, Parakkai CeSA, TNJFU



College of Fish Nutrition and Food Technology, TNJFU campus, Madhavaram Chennai



M.G.R. Fisheries College & Research Institute, Ponneri



Fisheries College and Research Institute, Thoothukudi



Kanniyakumari – Ganapathipuram CeSA, TNJFU

Research Publications

1. T. Anand, A. Srinivasan, P. Padmavathy, P. Jawahar, J. Stephen Sampathkumar (2021). Nursery rearing of *Penaeus vannamei* in biofloc systems with different salinities and organic carbon sources, Indian Journal of Animal Research, Accepted-in-prepress. NAAS rating: NAAS rating: 6.40. (Scopus Indexed).

2. Monikandon Sukumaran, KesavanDevarayan and RamarMarimuthu, Eco-friendly Inhibitor for Corrosion of TMT Rod in Marine Environment, Materials Today: Proceedings (Elsevier), accepted-in-prepress, DOI:10.1016/j.matpr.2021.11.460, 2021. (Scopus Indexed).
3. C. S. Dash, M. Kamalakannan, R. Jothi Ramalingam, H. Lohedan, S. Arokiyaraj, S. Yuvaraj, G. Anitha, A. Subramani, K.R. Sunaja Devi, M. Sundararajan, (2021). Magnetic property applications of microwave method prepared zinc ion modified CoAl_2O_4 nanoparticles, Digest Journal of Nanomaterials and Biostructures, 16(4), 1287-1294. NAAS Rating:6.79. (Science Citation Index Expanded & Scopus Index).
4. M. Sundararajan, J. Vidhya, R. Revathi, M. Sukumar, V. Ravi, R. Rajkumar, M. Kamalakannan, C. S. Dash, H. Lohedan, R. Jothi Ramalingam, S. Arokiyaraj, (2021). Study of physical and magnetic properties of $\text{Mg}:\text{Co}_3\text{O}_4$ spinels using L-Arginine as fuel, Journal of Ovonic Research, 17(5), 479-486. Impact factor: 1.165. (Science Citation Index Expanded & Scopus Index).
5. S. Ramachandran, M. Sundararajan, R. Rajkumar, M. Kamalakannan, B. Arunadevi, M. Sukumar, (2021). Rapid Synthesis and Magnetic property Characterization of Mg^{2+} doped Co_3O_4 Nanostructures, Inorganic and Nano-Metal Chemistry, Accepted, in press, NAAS Rating: 6.84. (Science Citation Index Expanded & Scopus Index).

Best Paper Award

T.Anand, M.Arivukkarasan, S.Pradeesh, S.Monikandon, D.Kesavan and C. Durairasan. (2021) Analyzing the nutrient status in the shrimp farm waste sludge, Paper presented in VirtualInternationalConference on "Environmentally Benign Processes, Products and Materials for Sustainable Ecosystem" EBPPM-2021 Conducted by NIT Trichy during 19-20 Nov'2021 and selected for **BEST PAPER AWARD**.



**"சோதனை கடந்து சுதந்திரம் அடைந்தோம்
சாதனை புரிந்து சரித்திரம் படைப்போம்."**