TAMIL NADU Dr. J. JAYALALITHAA FISHERIES UNIVERSITY



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Dear Readers,

In this issue, I like to share some of the relevant inputs already published in an education magazine. India has the advantage of a large youth population constituting 22% in the age group of 18-29 years as of 2021. Tamil Nadu has the highest GER (gross enrolment ratio) of 51.4% in 2021 as against the national average of around 28%. These should have been a huge advantage, right? Reports of agencies like NASSCOM, FICCI, Pharma HR, Ernst-Young have pointed out an important deficiency in our educated Youth. It is students' employability. Many of our graduates are "not employment ready" - for the core industry or the service industry. Many institutions of higher education like ours are now focusing on providing the students with core competencies and aligning them with the demands of the industries. One aspect that most industries look for is that our graduates should be digitally smart and communicate effectively. Our National Education Policy 2020 has addressed this issue and ascertained that for a paradigm shift from rote learning to critical thinking, importance should be given to more competencybased assessment. Competency-based education is an approach to teaching, learning and assessment that focuses on the students' demonstration of learning outcomes and attaining proficiency in particular competencies in subjects. Our students require more functional success than mere academic certificates which require skills in the chosen field. The observational and reflective skills are the core components of competency-based learning. In essence, there are a lot of differences between traditional education and competency-based education as it is a shift from mere transfer of knowledge and information to hands-on experiential learning.

To achieve this, the role of teachers is far greater in addition to the willing and focused students who have the right attitude and flexibility. The teacher needs clarity in defining the required competencies for a job or an experiment or a presentation in a conference and is willing to guide the students through experiential tasks. He or She needs to identify and address the skill-gaps of the students through focused personal interactions and guidance. The teacher needs to act more constructively than being a critic in expressing the concerns. The institute on its part provides for a conducive environment, required infrastructure, flexible procedures with clear policies on quality assurance at all levels.

In SAUs like ours, the students are from diverse economic and social backgrounds and we have a greater role in imparting not only the domain knowledge but also other soft skills and motivation to make them employable or self-employed. The business incubation centres attached to our institutions should take steps to provide them the required technical and financial assistance to try their ideas realized into start-up ventures even if it is on an experimental basis to bring in more confidence in our graduates. Let us try!

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

VC EVENTS

Foundation Stone Laying Ceremony

The Hon'ble Vice-Chancellor laid the foundation stone during the 'Bhoomi Pooja Ceremony' held at the Directorate of Incubation and Vocational Fisheries (DIVF), Ariyaman



Beach on 02.02.2022 for the construction of a Land-based seaweed culture unit under the National Agriculture Development Programme (NADP).

Signing of MoU with BoBP, Chennai

Tamil Nadu
Dr. J. Jayalalithaa Fisheries
University, Nagapattinam
signed an MoU with the
Bay of Bengal ProgrammeIntergovernmental
Organization (BoBP-



IGO), Chennai on 07.02.2022 at the Head Quarters of TNJFU, Nagapattinam. During this occasion, Dr.J.Stephen Sampathkumar, Director of Research incharge of TNJFU and Dr.P.Krishnan, Director of BoBP-IGO, Chennai signed and exchanged the MoU in the presence of the Hon'ble Vice-Chancellor.

Online Meeting for Conducting the 12th IFAF



The Hon'ble Vice-Chancellor, TNJFU conducted an online meeting with all the Chairmen of the committees of the 12th IFAF and Mr.Senthilkumar.

Event Manager on 09.02.2022 and held discussions about the e-communication, e-brochure and the progress made in reaching through the website.

Hostel Day Celebration at CoFE, Nagapattinam



The Hon'ble Vice-Chancellor participated as Chief Guest and delivered an address in the 3rd Hostel Day celebration of College of Fisheries Engineering, TNJFU, Nagapattinam on 10.02.2022.

Visit to NFDB, Hyderabad

The Hon'ble Vice-Chancellor visited the National Fisheries Development Board (NFDB), Hyderabad on 15.02.2022 to hold discussion with the Chief Executive of NFDB, Hyderabad in connection with the 12th IFAF.

University Officers Meeting

The Hon'ble Vice-Chancellor, TNJFU conducted the 50th University Officers meeting through virtual mode on 16.02.2022.



Visit to Raj Bhavan, Chennai

The Vice-Chancellor visited the Raj Bhavan, Chennai on 17.02.2022 to hold discussion with the Principal Secretary to the Governor, about finalizing the 7^{th} Convocation date.

7th Meeting of the Planning Board of TNJFU

The Hon'ble Vice-Chancellor chaired the 7th meeting of the Planning Board of TNJFU at Conference Hall, Institute of Fisheries Post Graduate Studies (IFPGS), OMR, Chennai on 18.02.2022.



Attended TNJFU Alumni Network Meeting

The Hon'ble Vice-Chancellor participated in the online meeting of the Executive Committee of TNJFU Alumni Network on 22.02.2022.

Attended Stakeholders Meeting at Secretariat

The Vice-Chancellor participated in the Stakeholders meeting conducted by the Hon'ble Minister for Finance and Human Resources Management and Hon'ble Minister for Agriculture and Farmers Welfare, Government of Tamil Nadu at the Secretariat, Chennai on 23.02.2021 for preparation of Budget estimate for the year 2022-23.

Attended the Budget Meeting at Secretariat

The Vice-Chancellor participated in the Budget meeting conducted by the Chief Secretary to Government, Government of Tamil Nadu on 25.02.2022, regarding the formulation of a separate budget for the Agriculture and Farmers Welfare Department for the year 2022-23.

Investiture Ceremony held at FC&RI, Thoothukudi

The Students' Association of Fisheries College and Research Institute, Thoothukudi for the academic year 2021-2022 was inaugurated by Mr.N.M. Mylvahanan, IPS, DIG of Police, Ramanathapuram on 26.02.2022 at the



KayalKalaiarangam. The Hon'ble Vice-Chancellor presided over the function and addressed the gathering.





Homecoming Event at FC&RI, Thoothukudi

The Vice-Chancellor participated in the Homecoming event organized by Fisheries College and Research Institute, Thoothukudi on 26.02.2022 & 27.02.2022.



As part of this programme, a cricket match was organized between Alumni and the students' team, in memory of Dr.B.Sundaramoorthy, Former Dean of FC&RI, Thoothukudi. Winners received Dr.B.sundaramoorthy ever-rolling trophy. The Alumni team was led byMr.N.MMylvahanan, IPS, DIG of Police, Ramanathapuram Range.

College News

Fisheries College & Research Institute, Thoothukudi

Peer-review meeting:

A peer-review meeting was held on 02.02.2022 for the project proposal on "Impact of Thoothukudi Thermal Power Station's Coolant water and ash pond effluent



discharge on marine fauna and flora" for the funding support from TTPS, Thoothukudi by the Director of Research, TNJFU in the presence of our respected Vice-Chancellor.

Skill development training programme:

A total of 40 participants attended a three-day skill development training programme on "Entrepreneurship in Marine Products" from 08.02.2022 to 10.02.2022 under the funding support of the Entrepreneurs Development Innovation Institute.

The beneficiaries were also given special lectures on the nutritional importance of fish food and HACCP implementation in fish processing industries. Preparation of seaweed /fish-based bakery products such as cake, biscuits, bread, and fish-based battered and breaded products, and fish pickles were demonstrated for the benefit of trainees. The valedictory function was presided over by Dr. N.V. Sujathkumar, Dean i/c, FCRI, Thoothukudi. He also distributed the certificates to the participants.





Training Programmes:

i. Mariculture Research Farm Facility unit, T h a r u v a i k u l a m, organized a two-day training programme on "Integrated M u l t i - T r o p h i c



Aquaculture (IMTA) based culture technology to augment fish production as an alternative livelihood for the fisherfolk of Tharuvaikulam, Tamil Nadu" from 16.02.2022 to 17.02.2022 under NADP funding. Dr.N.V. Sujathkumar, Dean i/c, delivered the presidential address and released a training manual and folder on IMTA for the benefit of the trainees and the first copy received by Mrs. Kadodi, Panchayat President. Certificates were distributed to the participants. R. MariaSahayaChristika, Project Assistant proposed the vote of thanks.

ii. One day on-campus training programme on Spirulina Cultivationwas conducted on 21.02.2022 by the department of Aquaculture.During this programme, Importance



of Spirulina Cultivation, Essential Medicinal Food, Isolation & Identification of Spirulina, Spirulina growing techniques, Factors affecting spirulina cultivation & its management, Calculation of spirulina production rate, Harvesting, drying, packing and quality control aspects, Problems in spirulina cultivation & its management, marketing and economic aspects were taught to the trainees. Dr.N.V.Sujathkumar, Dean i/c distributed the

certificates to the participants and spoke on the importance of this training programme to motivate the aqua farmers community to take up spirulina cultivation in their places.

iii. Department of Aquaculture offered a one-day online training programme on Spirulina Cultivation on 23.02.2022 intending to provide an idea on Spirulina



Cultivation which will pave way for self-employment of the trainees.

iv. Department of Aquaculture offered a one-day on-campus training programme on Periphyton Based Fish Farming on 24.02.2022. During this training



programme, Basics of periphyton, Importance, Species selection, Culture techniques, Advantages, Practical utility and economic benefits of Periphyton Technology were taught to the trainees. Demos on periphyton based fish farming were also shown to the trainees. Dr.N.V.Sujathkumar, Dean i/c distributed the certificates to the participants and spoke on the importance of this training programme to motivate the aqua farmers community to take up periphyton based fish farming.

Conducted a workshop:



Under the funding support of the Entrepreneurs
Development Innovation
Institute, a three-day workshop on "Sprouting Entrepreneurship in Marine

Products" was organised from 22.02.2022 to 24.02.2022. A total of 36students from APC Mahalaxmi College for Women, Thoothukudi participated.Dr. N.V. Sujathkumar, Dean i/c, FCRI, Thoothukudi, presided over the inaugural function. Preparation of seaweed /fish-based bakery products such as cake, biscuits, bread, and fish-based battered and breaded products, and fish pickles were demonstrated.The Dean i/c, distributed the certificates to the participants. Dr. P. Ganesan, Project Co-ordinator, EDII-MPBIF, FC&RI, Thoothukudi organized.

National Science Day Celebrated:



The National Science

Day was observed on

28.02.2022. Various

competitions such as

Drawing Competition on

Imagining the Future of

Science of Technology and

Innovation, Debate Competition on "Whether World is in our hand or Mobile is in our hand", Competition on Art from Waste, Science Snap and Mind Game were conducted among the students. Selvi Swathi IV B.F.Sc. welcomed the gatherings. Selvi Aruna IV B.F.Sc. offered National Science Day special note. Dr.S.Athithan, Vice-President of Students' Association spoke on the occasion. Dr.N.V.Sujathkumar, the Dean incharge delivered presidential address and distributed the prizes and certificates to the winners. Further, he distributed the certificates of merit and participation to students for the slogan writing competition on "My Favourite Patriotic Leader" (English & Tamil) conducted as a part of the Commemoration / Celebration of 75th Anniversary of India's Independence Day (Azadi Ka Amri Mahotsav). Miss. S.Jayapritha, IV B.F.Sc., delivered the vote of thanks.

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

Students' Association Inaugurated:

The inauguration of the Students' Association, was held on 21.02.2022. Dr. P. Krishnan, Director, BOBP, Chennai was the Chief Guest and presided over the function.



Dr. B. Ahilan, Dean i/c and President of the Students' Association felicitated the function. The students took charge of various posts with their responsibilities.

Ten students of IV B.F.Sc took charge of various positions. Mr. P. Vignesh, Literary Association Secretary and Mr. K. Shanmugham, Sports Secretary, Students' Association presented the reports of the activities carried out in the year 2020-2021. The inaugural ceremony ended with the vote of thanks by Mr. T. Harish Kumar, General Secretary, Students' Association of Dr.MGR FCRI, Ponneri.

Tree plantation programme

The NSS unit and Nethaji Tree Bank, Ponneri jointly organised a tree plantation programme in commemoration of the 75th anniversary of Indian Independence on 23.02.2022

at Pulicat Research Farm Facility (PRFF), Pulicat. A



representative from Nethaji Tree Bank, Ponneri and NSS volunteers actively planted saplings at the campus. Mr. R. Velmurugan, NSS programme officer and Dr.Ezhilarasi, Asst. Professor coordinated.

National Science Day:

The Students' Association led by III B.F.Sc (2019-20 batch) students, organized the National Science Day celebration



on 28.02.22. The day was celebrated with the theme of "Integrated approach in science and technology for sustainable future". A brief introduction on the theme of the programme was given by

Dr. Cheryl Antony, Vice President of the Students' Association. This was followed by the Chief Guest address by Mr. J. Castro, Former Senior Manager, TNFDC, Chennai and the Presidential address by Dr. B. Ahilan, Dean i/c and President, Students' Association. Competitions like essay writing and drawing were conducted. A debate competition was conducted on the theme "Production for Quantity or Quality". Prizes and certificates were distributed to the winners by Dean i/c.

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

World Wetlands Day:

The "World Wetlands Day-2022" was celebrated in collaboration with Forest Range Office, Muthupet on



02.02.2022. The programme was started with the welcome address by Mr. V. Jeyachandran, Forest Range Officer, Mannarkudi. Dr. C. Sivasubramaniyan, Head

(Retd), Department of Environment and Herbal Science, Tamil University, Thanjavur delivered a guest lecture on "Indian wetlands and their conservation". Mr. A. Thaheer Ali, Forest Range Officer, Muthupet conducted a drawing competition among the students. Ms. S. Sowmiya (2019-20), Ms. R. J. Abisha (2019-20), and Ms. B. Indhumathi (2020-21) have bagged 1st, 2nd and 3rd prizes respectively. Students participated in the cleaning of Koraiyar and Muthupet lagoon wetland areas.

Online training programme:

An online training programme on Financial Awareness and Consumer Training (FACT) supported by National Centre for Financial Education (NCFE), Chennai was organised



on 08.02.2022 to provide financial education to the students. Mr.S.N.Jayabalan, Financial Education Trainer, NCFE has delivered a lecture. The training aimed to provide

an idea to the students for making financial decisions (credit cards, education loans, etc.) that can have lasting consequences if not well managed. Dr.R.Palani Assistant Professor(C), DFEES coordinated this training programme.

Science Exhibition:

Science exhibition on the observance of "National Science Day 2022" jointly with Unnat Bharat Abhiyan (UBA) was organised on 28.02.2021 for the school students of Vaatakudi,Umbalachery, Kandanthethi and Neermulai villages. Ten exhibits were displayed by the school



students. The Dean, Dr. S. Balasundari distributed prizes to the winning exhibits. Mrs. S. Vimaladevi, Assistant Professor, has coordinated the science exhibition.

TV talk Recording by Doordharsan Kendra, Chennai:

The Doordharsan Kendra Chennai recorded activities of the college, new technologies and success stories of



entrepreneurs on 07.02.2022 and 08.02.2022. Totally 17 technical talks, 2 success stories by women self-help group members and 2 new technologies were recorded.

College of Fisheries Engineering

National Science Day:

National Science Day was celebrated on 28.02.2022.

Dr.N.Manimehalai, Dean i/c, has presided over the event. Several competitions were conducted for the students and prizes were distributed. Dr.T.Anand and Dr.P.Karthickumar, Assistant



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Professors along with Mr.Evon Umesh, the Science Club Secretary has arranged for the event.

Skill development programme:



Skill development programme on Fish value addition was conducted for the inland fish farmers of Orathanadu sponsored by ICICI Foundation,

Trichy was conducted from 25th to 26th February 2022. Dr. N. Manimehalai, Professor & Head, Dean i/c inaugurated and emphasized the scope of fish processing to the fish farmers. Demonstration on hygienic handling of fishes, production of fish pickle, extruded products (fish pasta, fish noodles, fish kurkure), baked products (fish cake and fish cookie) and ready to serve products (fish curry, prawn curry) were given by Dr. P. Karthickumar, Assistant Professor and Training Coordinator. Farmers were also exposed to the various fish processing machinery and packaging techniques.

Campus Cleaning



The students have been involved in campus cleaning as a part of NSS activities from 07.02.2022 to 09.02.2022. The NSS Programme Officers Dr.M.Ramar and Er.S.Monikandon coordinated.

Institute of Fisheries Postgraduate Studies Institute – Industry Interactive Meeting



Mr. D. Ramraj, President of All India Shrimp Hatcheries Association (AISHA) and Former President of the Society of Aquaculture Professionals (SAP), visited the Campus and interacted

with students and faculties on 11.02.2022. He elaborated on the development of the aquaculture industry in India and various opportunities available for the fisheries graduates. Earlier, Dr. S.A. Shanmugam, Dean (Basic Sciences), welcomed Mr. D. Ramraj and encouraged students to take up field-oriented research for their dissertation work. Dr. E. Suresh, Assistant Professor, coordinated the event.

Campus Cleaning Programme:

The students of IFBT (2021-2022) batch and NSS volunteers organized the campus cleaning activity on 15.02.2022 and



22.02.2022. The program was organized by Dr. S. Prakash, NSS officer.

On-site HPTLC Training:

Mr. Aniket Jadhav, a specialist in TLC/HPTLC from ANCHROM Enterprises (Pvt. Ltd) Mumbai demonstrated



the operating procedure of CAMAG TLC / HPTLC Documenter and provided hands-on training to the students and faculties at the Department of Fish

Pharmacology and Toxicology, on 18.02.2022. This program was arranged by Prof. Sriram, and Dr. S. Prakash, Assistant Professor, coordinated the event.

College of Fish Nutrition and Food Technology NSS Activities:



The NSS activity was taken up on 28.02.2022 and created a kitchen garden. The B.Tech. (Food Technology) II year students thoroughly cleaned and made it even, added red soil and compost, cowdung manure and planted the brinjal, chilli, greens, lady's finger seeds.

Directorates

Directorate of Extension Education

Skill Training programmes

i. ICAR-Krishi Vigyan
Kendra, Nagapattinam
conducted four days
Training Programme
on Masmin Production
under OFT, FLD from
25.02.2022 to 28.02.2022.
The training was given on



different aspects of Masmin production such as Making of a Smoking barrel, Preparation of Tuna for Masmin production, Hygienic handling of Tuna, the Boiling process of Tuna, Making of Tuna flakes/pieces & removal of bones,



- the Smoking process of Tunaflakes, Solar Drying methods of Tunaflakes and Packaging methods of Masmin.
- ii. A three-day capacity building training on Goat rearing was conducted with the financial assistance of ICAR from 07.02.2022 to 09.02.2022. In this training, 40 rural farmers were enrolled and participated. During the technical session, Breeds, Housing, feeding, breeding, deworming, selection, disease management, kid management, Azolla cultivation, Vermicomposting, Ethnoveterinary practices for common ailments of goats were explained in detail by the respective experts in the discipline.

Field Day conducted:

ICAR-KVK, Sikkal,
Nagapattinam conducted
field day on demonstration
on Saline Tolerant Rice
variety TRY 4 under FLD
at Sembathaniruppu,



Sembanarkoil block on 08.02.2022.Dr.V.Kannan, SMS (Agronomy) and Mr.K.Ragu, SMS(Horticulture) organized the field day and explained the variety and recorded random yield 3 replicate places. Rice variety TRY 4 yielded 6750kg / ha and with stand well in saline patches. TRY 4 rice variety showed resistance against stem borer and leaf spots.

Directorate of Sustainable Aquaculture Training programmes:

i. Training on "Advanced Freshwater Fish culture Technologies" was conducted at Thanjavur Centre for Sustainable Aquaculture from 23.02.2022 to 25.02.2022. Sixty farmers from



Thanjavur, Trichy, Thiruvarur districts participated. The trainees were briefed about Alternate fish species in inland aquaculture, Recent trends in carp farming, Introduction to Biofloc culture, Recirculatory Aquaculture System etc. Dr.V.Senthilkumar Assistant Professor and Head, TCeSA coordinated the event and handled the classes. Ms.S.Sangavi, Assistant Professor, Trichy Centre for Sustainable Aquaculture gave a lecture. Th.Asif Iqbal, State Coordinator, ICICI Foundation and Th.Manal. Paramasivam, Vice President, Tamil Nadu Fish Farmers Welfare Association felicitated.

 ii. KanyakumariParakkai Centre for Sustainable Aquaculture, Parakkai organized a training programme on Shrimp Farming for three days from 24.02.2022 to

26.02.2022. A total of 29 beneficiaries including shrimp farmers and entrepreneurs attended. Mr.P.Velmurugan, Faculties of DSA



delivered lectures and participated in the discussions. The lectures on "Selection of a suitable site, Water Quality Management, Methods for production of quality shrimp fry, Survival methods to be followed in Shrimp farming, Methods of finding the quality shrimp fry and methods of nursery cultivation, Feeding and Feed management, Culture of live food organisms in shrimp farming, Identification of good quality shrimp seeds, and Disease Management in shrimp farming were taught. The Director, DSA, has participated and distributed the manual and certificates to the participants.

iii. Kanyakumari Parakkai
Centre for Sustainable
Aquaculture, organized
a training programme
on Loach Fish
Culture on 23.02.2022.
Shrimp farmers and



entrepreneurs have attended the training programme. Mr.P.Velmurugan, Assistant Professor, KKPCeSA highlighted the importance of the training programme and delivered lectures on "site selection, pond construction, pre-stocking management, post stocking management, stocking, feeding and breeding" were explained to trainees. A pamphlet on *Ayirai Meen valarppu* was distributed along with certificates.

Directorate of Incubation and Vocational Training in Aquaculture

GADVASU VC visit to DIVA:

Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Punjab Vice-



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From

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

То

Chancellor Dr.Inderjeet Singh, visited the Directorate of Incubation and Vocational training in Aquaculture (DIVA) campus on 14.02.2022.

Former TANUVAS VC visited DIVA,



Former Tamil Nadu Veterinary and Animal Sciences University (TANUVAS) Vice-Chancellor Dr. R. Prabhakaran, visited the Directorate of Incubation

and Vocational training in Aquaculture (DIVA) campus on 18.02.2022.

Directorate of Incubation and Vocational Training in Fisheries

Campus Cleaning at Government Elementary School:

"Campus Cleaning Programme" at Government Elementary School, Sundaramudaiyan, Ramanathapuram District was organised on 11.02.2022. All the students and staff of the institute actively participated in the programme.



The plastic waste and weed plants were cleaned. IIFT staff coordinated all the arrangements for the event. On this occassion Nilavembu water was also distributed.

Training programme:

A one day off-campus training programme entitled "Care and Maintenance of Marine Enginesand Sea Safety

at Sea" was jointly organized by DIVF, Ramanathapuram and Department of Fisheries and Fishermen Welfare, Ramanathapuramon 25.02.2021. About 50 fishermen attended. Mr.AbdulKathar Jeyalaani, Assistant Director of Fisheries, Mandapam emphasized the need for fishermen to take up technical training on marine Engine maintenance and Navigational equipment. Mr.M.Kalaiarasan, Assistant Professor and Mr.A.Sivasudalaimani, Automobile Engineer and Mr.A.Augustine Fernando, Nautical Officer of the DIVF served as resource persons..





Research Publications

Subash, P., **Uma, A.** and **Ahilan, B.** (2022). Early responses in *Penaeus vannamei* during experimental infection with *Enterocytozoonhepatopenaei* (EHP) spores by injection and oral routes. Journal of Invertebrate Pathology [NAAS - 8.02].DOI:https://doi.org/10.1016/j.jip.2022.107740

Roy S.M., **Tanveer M**. and Machavaram R. 2022. Gravity Aeration System in Aquaculture Water Treatment – A Review. Aquaculture International (Accepted) (**Impact Factor – 2.235**).

"சோதனை கடந்து சுதந்திரம் அடைந்தோம் சாதனை புரிந்து சரித்திரம் படைப்போம்."