

TNFU NEWSLETTER

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FROM THE DESK OF VICE-CHANCELLOR.....



Dear All,
Greetings !

As we wrap up yet another successful year in the University calendar, I wish to congratulate our students for their hardwork and dedication in completing their bountiful duties sincerely and I also want to thank all the teaching staff for working hard in equipping teaching, research & extension activities of the University. Further I thank our Non-teaching staff members for their unwavering hardwork in ensuring the administrative works of the university.

Staying on the competitive edge, I am delighted to share a major accomplishment we achieved during this year. We topped No-1 among State Agricultural Universities in Tamil Nadu and 25th in India. ICAR accreditation and AICTE accreditation for Dr.MGR. FC&RI, Ponneri & COFE, Nagapattinam were respectively obtained. We also tapped the potential of offering B.Voc degree programmes in various streams such as Fish Processing Technology, Industrial Aquaculture & Aquatic Animal health Management. Many new constituent units were added and a new Fisheries College at Kanyakumari was also opened to cater to the requirement of the professionals in Fisheries sector. In the second quarter of this year the University also hosted a major International conference "*Asian Pacific Aquaculture-2019*". In strengthening the University's faculty strength, recruitment of Teaching and Non-teaching staff was also exercised.

A thought awakening convention for Vice Chancellors on "*Chancellor's Vision 2030*" has been arranged by the Hon'ble Chancellor at Ooty and it was indeed a good learning experience for all the Vice Chancellors of the State. A quick visit to FC&RI, Thoothukudi campus and CMFRI-Tuticorin campus was also made. Board of Management and Academic Council Meetings were also convened this month. At the end of this productive year, we also conducted the first training on 'Green Farming Aquaponics' for adoption.

We close the year on a very high positive note too, this has been a significant year for our University and I am most grateful for your support and encouragement. As a university, we strive for excellence in both research, teaching and extension and the New year awaits us and brings a sense of anticipation as we journey onwards to realise the full potential of what we might achieve.

All good wishes for a restful and restorative season!

Wishing you all the Happy & Prosperous New year!

Prof. S. Felix
Vice-Chancellor

VC EVENTS

Attended the Chancellor's Vision 2030 held at Rajbhavan, Ooty

The Indian Institute of Management, Trichy had organized the two-day Vice-Chancellor's conference. In this Conference, Hon'ble Governor of Tamil Nadu, Thiru. Banwarilal Purohit inaugurated the Conference on "Chancellor's Vision 2030: Innovating Education in the Era of Industry 4.0" at Raj Bhavan, Ooty. It was a two days interactive program well organized. It was decided to bring out the Vision 2030 plan for all the universities based on the inputs received from the resource persons of the workshop.

**Visited CMFRI Thoothukudi**

Prof. S. Felix, Vice-Chancellor Visit the CMFRI Thoothukudi campus on 9th December 2019 and discussed with HoD of the Division and other scientists of the scope for more collaborative works with FCRI, Thoothukudi, potentially to help the Research scholars of the college.

Attended the 44th VC's Convention at Raipur on 12-13th of December 2019

Prof. S. Felix, Vice-Chancellor attend the 44th Vice-Chancellor's Convention of Indian Agriculture Association on "Rethink Undergraduate Agriculture Education" held on 12-13th of December 2019 at Indira Gandhi Krishi Vishwavidyalaya, Raipur.

**Chaired the 19th Board of Management and the 13th Academic Council Meetings at ARTP Conference Hall, Madhavaram Campus, Chennai on 24.12.2019****Dr.MGR.FC&RI,Ponneri organized one-day workshop cum demonstration on "Green Farming Aquaponics: A step ahead for Less Carbon Footprint in Aquaculture" at Madhavaram**

A team of thirty farmers from different parts of the state such as Madurai, Pudukkottai, Trichy, Palani and Chennai attended this training program. Prof.S.Felix, Hon'ble Vice Chancellor of Tamil Nadu Dr.J.Jayalithaa Fisheries University inaugurated the training programme in the presence of Dean i/c, Dr.D.Manikandavelu, Professor & Head, Department of Aquatic Environment Management, Dr.MGR.Fisheries College and Research Institute,Ponneri. Vice Chancellor emphasized that, Aquaponics technology in the past decade has taken great leaps forward in efficiency and hence economic viability through a wide range of technological advances has been achieved in several countries. Compendium of the workshop was released by our Hon'ble Vice Chancellor and the same was received by Dean i/c. Followed by the inauguration, technical sessions on know how's on various aspects of Aquaponics technology was conducted along with the practical classes. As a final note the organising secretary of the training programme Dr.M.Menaga expressed the gratification note for the support rendered by the College



and University as well as the industry representative and the farmers for attending this training programme.

DIRECTORATES

Training programme on "Office Procedures"

A training programme on "Office Procedures" from 18.12.2019 to 20.12.2019 at TNJFU, Nagapattinam to the Administrative staff of TNJFU (in the cadre of Junior Assistant, Typist and Steno-Typist was organized). The Subjects dealt in the training were Office Administration, Maintenance of files, Disposal of Files, Declaration of Probation, Promotion, Pay fixation etc., Leave Rules, Noting & Drafting, Delegation of Powers and purchase procedures, Preparation of bills, Pay Bill,



DC Bill, Miscellaneous Bills, etc., Preparation and Maintenance of office day to day accounts, Monthly Accounts, Annual Accounts, TA, TTA, LTC Rules, Maintenance of Register, Preparation of Budget proposal (BE, RE & FMA), Retirement and Pension proposal and Miscellaneous discussion. Totally 16 staff members have attended the training programme.

Swachhata Pakhwada Activity

Event 1. Swachhata Pakhwada Pledge:

Swachhata Pakhwada Pledge was taken in Govt. Higher Secondary School, Sikkal with 100 school students. Sensitized the importance of cleanliness to ensure good health and hygiene.



Event 2. Cleaning Activity:

As a part of Swachhata Pakhwada event celebration we involved student volunteers for Cleaning of nearby Mariyaman Kovil temple premises.

Event 3. Tree Plantation:

20 Tree saplings were planted at our KVK, Sikkal, Nagapattinam premises.



Veterinary health and Infertility camp:

Date: 18.12.2019 Veterinary health and Infertility camp was organized at the Palaiyur village of Nagapattinam block as part of NAIP. In continuation to the Launch of NAIP on 11.09.2019 by our honorable Prime Minister of India. KVK, Sikkal has taken one step further to have Veterinary Health and Infertility camp in the NAIP villages of Nagapattinam District. In which totally 305 animals were treated for various ailments and complaints. This camp was organized in collaboration with Department of Animal Husbandry, Nagapattinam.



Capacity building programs on Livestock farming (Dairy/Goatery/Poultry/Fisheries)

As a part of rehabilitating the rural livelihood of Vedaranyam block women farmer (which was affected by Cyclone Gaja), we have conducted 4 batches of Capacity Building Programs on Livestock Farming (Dairy/Goatery/Poultry/Fisheries) to SHG women of Vedaranyam block from 02.12.2019 to 09.12.2019. The programs were conducted at 4 identified villages covering 30 women per program from nearby hamlets/village. The above programme was coordinated by Vazhanadu Sustainable Agriculture Producer Company Limited. Each program was conducted for the duration of one week. Input materials such Azolla cultivation bag, Fodder seeds and Slips were distributed to the Women



beneficiaries. The District Development Manager NABARD, Bank Manager of service area and CEO - Vazhanadu Farmer Producer Company Ltd., and other organizers were participated.

Centre for Sustainable Aquaculture

Dr.J.Stephen Sampath Kumar, Director, Directorate of Sustainable Aquaculture and Dr V Senthilkumar, Assistant Professor and Head/c, Thanjavur Centre for Sustainable Aquaculture, Thanjavur attended the Third Steering Committee meeting held at Directorate of Fisheries, Nandanam on 19.12.2020. The progress made in the TamilNadu Irrigation and Modernisation Project was presented before the Committee. The action plan for the next year was presented and approved by the Committee.

Trial of Optimum Sustainable Production model in Farm Ponds

Two trials in farm ponds were completed with additional species, stocking ratio and stocking density parameters in farm ponds. The revalidation of the results process started; pond preparation process was completed and the additional species seed stocking done in Thanjavur ponds. Mass adaptive trials have been planned with the support of DoF. Ponds to be identified. Dr.J.Stephen Sampath Kumar, Director, Directorate of Sustainable Aquaculture as Nodal Officer and Dr V Senthilkumar, Assistant Professor and Head/c, Thanjavur Centre for Sustainable Aquaculture, Thanjavur as Co-Investigator coordinated the study under TamilNadu Irrigation and Modernisation Project.

TNLFU Carp floating feed – Farmer point of view

The formulated feed for carps was developed under NADP project on Development of cost efficient feeds for enhancing freshwater fish production and produced in DIVA,Muttukadu.

Diet formulation for Carp fishes
(Crude Protein – 30%) Price : Rs.38/kg

Sl. No.	Ingredients composition (%)	Inclusion level (%)
1	Fish meal	20
2	Soya bean meal	15
3	Poultry by product meal	15
4	Groundnut oil cake	10
5	Rice bran	15
6	Maize	17
7	Di Calcium Phosphate	0.5
8	Sodium chloride	0.5
9	Tapioca flour	5
10	Vitamin-mineral mix	2

Feed back

The fish floating feed supplied by Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Muttukadu is consumed completely by fish immediately after broadcasting. The cost is relatively less than commercial feed available in the market. The growth of fish is faster than using other feeds.

Th.C.Anguraj, Trainee of DIVA and Carp fish farmer Ottamvillage, Hogenakkal, Pennagaram Taluk, Dharmapuri, District.

COLLEGE NEWS

Celebrated Soil Day at FC&RI, Thoothukudi

As per the recommendations of Indian Council of Agricultural Research, World Soil Day was celebrated at Fisheries College and Research Institute, Thoothukudi on 05.12.2019 which was coordinated by the Department of Aquatic Environment Management. In the inaugural function, Dr.V.Rani, Assistant Professor and Head, Dept. of Aquatic Environment Management welcomed the gathering. Dr.B.Sundaramoorthi, Dean in his presidential address highlighted the importance of celebrating soil health day and responsibility of every individual to prevent soil erosion in the



natural system. A total of 22 farmers from various places of Thoothukudi district were benefited through this programme. Mrs.D.Manimekalai, Assistant Professor coordinated and proposed the vote of thanks.

Training programme on “Biochemical Compositional Analysis of Food”

A training programme on “Biochemical compositional analysis of food” was conducted by the Department of Fish Quality Assurance and Management, Fisheries College and Research Institute, Thoothukudi from 16.12.2019 to 20.12.2019. This training programme was organized based upon the request from Marian Star Centre of St. Mary's college, Thoothukudi. A total of 18 participants comprising



of II and III B.Sc (Zoology, Botany & Chemistry) students attended the programme. The training was inaugurated by Dr. B. Sundaramoorthy, Dean, Fisheries College and Research Institute, Thoothukudi. The trainees were given hands on practice for the analysis of moisture, protein, fat, ash, dietary fibre and carbohydrate.

Dr. M.G.R FC & RI, Ponneri observed Agricultural Education Day

The National Agricultural Education Day is celebrated on 5th December every year to mark the importance of agricultural education in the Country. To commemorate it, Dr. M.G.R Fisheries College and Research Institute, Ponneri, organized elocution and essay writing competitions for students of J.S.G.H.S school at Pulicat. The winners of the competition were felicitated by Dr. D. Manikandavelu, Vice President of the Students' Association who along with Miss. Agnes Daney Angela, Head, DFEES coordinated the competitions and gave awareness to students about the courses offered by the institute and scope of fisheries in employment.



Two Day Fisheries Entrepreneur Development Programme on "Production and Marketing Programme of Value Added Fisheries Products" at FC& RI – Thoothukudi.

The Department of Fish Processing Technology, Fisheries College and Research Institute, Tamil Nadu Dr. J. Jayalithaa Fisheries University, Thoothukudi organized two days fisheries entrepreneur development programme on "Production and Marketing of Value added Fishery Products" during 18.12.2019 and 19.12.2019 under NADP – Kayalagam Scheme. Dr. B. Sundaramoorthy, Dean inaugurated the training program on 18th Dec 2019. A total of 30 entrepreneurs from different parts of Tamil Nadu participated in training program. Dr. B. Sundaramoorthy, Dean, FC&RI presided over the valedictory function on 19 Dec 2019 and explained facilities of Kayalagam scheme to the entrepreneurs. G. Sugumar, Professor and Head suggested that the facilities at the Kayalagam centre



be utilized by the aspiring entrepreneurs in their start-up venture on fishery based business, as it is also the mandate of the Kayalagam- project. The participants were also issued with certificate on successful completion. Mr. F. Parthiban, Assistant Professor and Co-PI of the scheme organized the event and delivered the vote of thanks.

'Learn while you grow' initiated at Dr. M.G.R FC & RI, Ponneri

Dr. B. Ahilan, Dean of the institute initiated 'learn while you grow' activity on 06.12.19. The initiative will entrust the second year B.F.Sc students of the institute to rear 50 gold fish and 50 koi carps which was stocked by Dean and other senior teaching faculty of the institute in the institute's circular cement tank of 10 ton capacity. The initiative will be monitored by the teaching staffs of department of aquaculture.



Special lecture delivered at Dr. M.G.R FC & RI, Ponneri

Dr. R. Ananthakumar, IAS, Special Secretary (Finance) to Govt. of Tamil Nadu visited Dr. M.G.R Fisheries College and Research Institute, Ponneri on 09.12.19 and delivered a special lecture on "Emotional intelligence" for the benefit of students and staff of the institute. Dr. B. Ahilan, Dean of the institute presided over the programme and felicitated the Special lecturer. Dr. D. Manikandavelu, Vice- President, Students' Association proposed the vote of thanks. Dr. N. Muralidharan, Special lecture-in-charge and Dr. Lloyd Chrispin C, Asst. Prof., DFEES coordinated the programme.



Thirteen Days Skill Development Training Programme on Production of value added fishery products

Thirteen days Skill Development Training Programme on Production of value added Fish products was conducted for the fisherwomen and entrepreneurs of Karaikal, Puducherry along with the grand support by the NABARD (National Bank for Agriculture and Rural Development) Karaikal and NGO - The grow rich foundation Puducherry at

Fisheries directorate, Karaikal started on 26th Novemeber 2019. Mrs. Uma Gurumurthy, DDM, NABARD, Puducherry UT, inaugurated the skill development programme and insisted the trainees to learn the value added processing technique and to become successful entrepreneur in the fisheries sector. During inaugural session, Mr.K.Kaviyaran, Deputy Director Fisheries, Karaikal, Mrs.M.Sridevi, Project Director, Mr. Ka. Nedunchezian Chief Mentor and Mr.Sukhdev, Village Administrative officer, Kottucherry were present.

Dr. N. Manimehalai, Associate Professor delivered lecture on hygienic handling of fishes during preprocessing of fishes. A business opportunity available in fish processing sector and marketing strategies were explained by Dr. P. Karthickumar, Assistant Professor and Training Program Coordinator.



Exposure cum hands on training was arranged on 29th November 2019 at Fish Processing Incubation facility, Nagapattinam. Hands on training on production of RTE fish curry, RTE prawn gravy, RTE crab soup, fish biscuit, fish cake, fish pasta, fish noodles, fish puffcorn were done by Dr. K. Rathnakumar and Dr. P. Karthickumar. Beneficiaries were also exposed to the various fish processing machinery and packaging techniques that present in the FPIF, CoFE. During valedictory session, trainees gave feedback stating that they have gained lot of knowledge on how to manufacture the fish products in various methods and marketing strategies for effective business.

One day Training Program on Production of value added fishery products

One day training program on "Production of value added fishery products" was conducted for the forty one fisherwomen of Karaikal sponsored by The grow rich foundation, Karaikal on 18th December 2019 at Fish Processing Incubation Facility, College of Fisheries Engineering, TNJFU, Nagapattinam. The program was inaugurated by Chief guest Dr. S. Balasundari Dean Dr. MGR Fisheries College and Research Institute, Thalainayeru in which she spoke about the importance of consumption of marine products and the scope



that are available in the fish processing sector. Trainees were also exposed to the various fish processing machinery and packaging techniques.

Agricultural Education Day celebration

On behalf of Dr.MGR. Fisheries College and Research Institute, "Agricultural Education Day" was celebrated at Government Middle school, Kadambadi on 12.12.2019. Topics such as "Agricultural Educational System in the State" and "Process of admission and Scope of fisheries related studies" were discussed among 450 students. Other programmes such as exhibition, drawing and essay writing competitions were also conducted for the school students.

Students Insurance Awareness Programme at College of Energy and Environmental Engineering, TamilNadu Dr.J.Jayalalithaa Fisheries University, Nagapattinam.



An Awareness Programme on "Student Insurance Policy" has been organized on 20.12.2019. Dr.M.Kamalakaran, presided over the session with the chiefguest DuraiMurugan R, Development Officer and Business Centre Head, National Insurance Karaikal. He explained about the policies available for the students



Awareness Program on Financial Literacy- 12th December 2019

Awareness program on Financial Literacy was conducted on 12/12/2019 at college of fisheries nautical technology.



Mr. M. Vathsalan, Program Co-ordinator, Mpower Young India Academy has participated in this program.

The program was inaugurated by Dean / Capt. S. Viswanathan. All the 17 cadets and staffs have participated in the program. Mr. Vathsalan has given a brief introduction on Financial Literacy of day today life. Moreover, He showed the videos about Banking system, Types of Savings and awareness on EMI method. It was valuable program to the students and



staff members. Finally the cadets cleared all their doubts. Student coordinator Mr. K. Karuppasamy has organized the program.

College of Fisheries Nautical Technology students visited the Central Marine Fisheries Research Institute, Thoothukudi

The students and staff of College of Fisheries Nautical Technology visited the CMFRI, Thoothukudi center on 13/12/2019. Ms. M. Kavitha, Scientist explained about the pearl oyster and chank reproduction techniques, molluscan laboratory, biodiversity museum and capture fishery resources of India. Further, videos about the tuna fishing technology and details of laboratory facilities have been showed in the conference hall at CMFRI. It was the good exposure to the students and gained the knowledge about the marine fishery resources of India.



Students of College of Fisheries Nautical Technology visit navy ship at VOC Port

The students and staff of College of Fisheries Nautical Technology visited the Navy ship, INS Sumetha, at VOC Port Thoothukudi on 15-12-2019. The navy officers explained about the ship details and working progress of the vessel. The Navy crew were practicing the diving operation in the port aft of the vessel. It was valuable visit to the students and staff members.



Fisheries College & Research Institute, Parakkai Special Guest Lecture's

Fisheries college & Research institute, Parakkai, is the 4th Fisheries college functioning under Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Nagapattinam. A special lecture was arranged for the students of this College, entitled "Role and function of MPEDA in the development of Fisheries" given by Dr. Vinoth Ravindran, State Coordinator, NET FISH – Marine Product Export Development Authority (MPEDA).



The lecture emphasized on importance of establishing MPEDA, which was started on August 1972. MPEDA encourages the export of seafood, marketing of value added fishery products, quality control of fishery products, pre processing infrastructure facilities.

These lectures were arranged by Dr. P. Velayutham, Dean i/c of this Institute and he delivered vote of thanks. Twenty students and five Assistant Professors attended the lecture programme.

Visit to fish farm at Poondi as part of skill education programme

The B.Voc Industrial Aquaculture students visited fish farm at Indian fish seed farm, Poondi and acquired practical knowledge on fish seed production and induced breeding of carps.



RESEARCH HIGHLIGHTS

Cost effective raceway model for commercial biofloc meal production study - S.Felix, B.Ahilan and M.Nethaji

Shaded raceway pond (45×9×1.5 ft) of 17 tonnes capacity were designed and deployed for the biofloc meal production which can serve as an ingredient for fish/shrimp feed. Raceway ponds are constructed using GI (Galvanised iron) frames in which HDPE liner of 550 GSM is used for holding water. The PVC liner sheets of movable roof structure are laid to avoid the direct sunlight above the raceway ponds. 1 Hp aerator at 70 RPM is used for the circulation and mixing of water inside the ponds for biofloc production. The cost of constructing single



unit of raceway pond would turn around Rs 1.2 - 1.5 lakhs. The cost of producing 1kg dry biofloc would be Rs-27 based on the source of water used for the biofloc production. On an average of 5-8kgs of floc in wet weight can be harvested per day from 17 tonnes raceway ponds. Generally 50 micron mesh



is recommended for harvesting the biofloc from the raceway ponds. In general one third of the wet floc can be obtained by drying the harvested floc.

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