

MOOCS course on

**Advances in Aquaculture sector -
Current trends and prospects to increase the
profitability**

4 WEEKS (19.02.2024 TO 15.03.2024)



Organized by

**DIRECTORATE OF SUSTAINABLE AQUACULTURE
TAMILNADU Dr J JAYALALITHAA FISHERIES UNIVERSITY**

Vettar River View Campus, Nagapattinam – 611 002

Email: dsa@tnjfu.ac.in

Website: <https://www.tnjfu.ac.in/directorates/dsa/>

About Host Organization

Tamil Nadu Dr. J. Jayalalithaa Fisheries University (TNJFU) is an India's leading university in Fisheries Education. A focus on excellence, engagement & equity has led to remarkable growth in student intake strength, new courses, spectacular campuses, State-of-art infrastructure, research impact & reputation. Tamil Nadu Fisheries University as State funded university in India was formed during the year 2012. TNJFU with 47 constituent units spread all over Tamil Nadu with its headquarters functioning at Nagapattinam, Tamil Nadu, India. TNJFU imparts professional fisheries education, research & training to augment fish production & utilization by following the State Agricultural University (SAU) pattern & syllabi, recommended by ICAR. The University at present has four faculties: Fisheries Sciences, Basic Sciences, Fisheries Engineering and Food Science & Nutrition. It has three Fisheries Colleges and Research Institutes functioning at Thoothukudi, Ponneri near Chennai and Thalainayeru near Nagapattinam; one College of Fisheries Engineering at Nagapattinam; besides the Institute of Fisheries Post-Graduate Studies, Institute of Fisheries Biotechnology and Business School (Fisheries) at Vaniyanchavadi, Chennai and College of Fish Nutrition and Food Technology, Madhavaram, Chennai and Paraprofessional Institute for Industrial Fish Processing Technology, Madhavaram, Chennai, Paraprofessional Institute for Industrial Aquaculture, Muttukadu, Chennai, Paraprofessional Institute for Industrial Fishing, Mandapam, and Paraprofessional Institute for Aquatic Animal Health, Madhavaram, Chennai. Also, TNJFU has five technical directorates namely, Directorate of Research, Directorate of Extension Education, Directorate of Sustainable Aquaculture (DSA), Directorate of Incubation & Vocational Training in Aquaculture (DIVA) and Directorate of Incubation Vocational Training in Fisheries (DIVF). Besides that, this University has five Referral Laboratories and a Krishi Vigyan Kendra (KVK) at Sikkal in Nagapattinam District

The University has been well recognized in fisheries education both at National & International levels & it is ranked 40th in NIRF ranking under Agriculture category in India during the year 2023. The University also obtained ICAR accreditation, 12 B Status by the UGC, Govt. of India. In addition to this AICTE accreditation was also obtained for the College of Fisheries Engineering and College of Fish Nutrition and Food Technology, Madhavaram, Chennai, constituent units of TNJFU.

Centre for Sustainable Aquaculture was created on 01.01.2016. Later, it has been renamed as "Directorate of Sustainable Aquaculture". During the past seven years, the Directorate with its headquarters at Nagapattinam has grown with 8 stations viz., Thanjavur Centre for Sustainable Aquaculture, Ramanathapuram Centre for Sustainable Aquaculture, Kanyakumari Ganapathipuram Centre for Sustainable Aquaculture, Kanyakumari Parakkai Centre for Sustainable Aquaculture, Krishnagiri – Barur Centre for Sustainable Aquaculture, Erode Centre for Sustainable Aquaculture Bhavanisagar, Trichy Centre for Sustainable Aquaculture and Theni Centre for Sustainable Aquaculture with different purposes viz, Shrimp seed production, Ornamental fish

breeding and production, enhancement of freshwater fish production with native and exotic carps, marine fin fish and seaweed cultivation, live feed production for marine fin fish sector, Loach seed production, Loach grow out farming practices, integrated aquaculture systems, GIFT tilapia seed production and farming techniques and in addition to the existing stations, it has been proposed to establish separate units for shrimp farming, fish farming, seaweed farming, innovative aquaculture Centres and native species breeding and protection of biodiversity in the State. The facilities existing and to be created are farmer centric in the respective regions and also for staff and students research and learning.

Background of the Programme

The MOOCS course on “Advances in Aquaculture sector - Current trends and prospects to increase the profitability” is going to enlighten the recent trends in aquaculture sector, new systems; integration of aquaculture systems, new species introduced for culture, the future of aquaculture systems and also covers the engineering aspects of aquaculture systems.

Participants & Eligibility:

This MOOCS programme is open to scientists, teachers, research scholars, KVK faculty, field professionals and PG/Ph.D. students

Important Dates:

Last date for receipt of application form:	15-02-2024
Intimation of selection:	15-02-2024
Confirmation about participation:	16-02-2024
Commencement of programme:	19-02-2024

Period / Duration:

The 4 weeks MOOCS Programme on “Advances in Aquaculture sector - Current trends and prospects to increase the profitability” will be organized through virtual lecture/class.

How to Apply:

Participants can submit online registration link presented in the Brochure

<https://forms.gle/b3byxr3yKHdcsQg1A>

Registration Fee:

Registration fees include programme documents, completion certificate, postal charges of published programme compendium that will be sent to all the candidates through speed post. Non-refundable registration fee for Indian participants is given below:

Category	Registration fee
Students/ Research Fellows	Rs. 500/-
Faculties/Scientists/In-service participants, Industry personnel / Private Organizations etc	Rs. 1000/-

Mode of Payment:

The application form can be submitted through Google form with fee receipt. Aspirants can directly deposit their registration fee in favor of

Account Name: Deposit Account DSA TNJFU

Account No: 110059674484, Bank: Canara Bank, Branch: Nagapattinam,

IFSC Code: CNRB0001212

and send the screenshot of their fee transaction to the Organizing Secretary through mail or WhatsApp number: 9952557799.

Requirement for Training:

The aspirants should be proficient in the following:

- Basic computer skills.
- Sending/receiving email
- Sending and receiving attachments via email.
- Using a web browser and finding web resources through search engines.
- Downloading and installing software and/or viewing electronic files.
- Familiarity with using browser plug-ins (e.g., PDF reader, video, audio).
- Using word processing, presentation software, or other productivity applications.
- The ability to be self-directed in learning new technology skills (for example, following a handout, a step-by-step tutorial, online video help, or access to support to learn necessary skills).

***The participants are informed to view the videos uploaded via the link shared to their emails before end of that particular week and send the Assessment for that particular week**

*** To qualify for certification participants shall secure minimum qualifying marks of 40 and participants are expected to maintain a minimum of 70% attendance**

Organizing Team

Patron:

Dr.N.Felix

Vice Chancellor

Tamil Nadu Dr.J.Jayalalitha Fisheries University

Nagapattinam – 611 002

Conveners:

Dr.P.Chidambaram

Director i/c

Directorate of Sustainable Aquaculture

Nagapattinam – 611 002

Dr. K. Veerabhadran

Director i/c

Directorate of Extension Education

Nagapattinam – 611 002

Dr. M.Rajakumar

Registrar i/c & Director of Research i/c

Tamil Nadu Dr.J.Jayalalitha Fisheries University

Nagapattinam

Organizing Secretaries

Dr.T.Anand

Assistant Professor

Theni Centre for Sustainable Aquaculture

Theni

Dr.S.Aanand

Assistant Professor and Head i/c

Erode Centre for Sustainable Aquaculture

Bhavani

Technical Co-ordinator

Dr.D.Kesavan

Assistant Professor and Head

Department of Basic Sciences

College of Fisheries Engineering

Nagapattinam – 611 002

Email to contact:

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Contact Person; Dr.T.Anand, Organizing Secretary (Contact No. 9952557799)

**Advances in Aquaculture sector -
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Programme Schedule**

Week / Days	Title of the presentation	Name of the presenter	Time
1st Week			
19.02.2024	Inauguration of the programme	Dr.N.Felix Vice Chancellor, TNJFU Nagapattinam	10 min
	Introduction to the Course	Dr.P.Chidambaram Director i/c, DSA, TNJFU Nagapattinam	5 min.
	Overview of Advanced Aquaculture systems	Dr.P.Chidambaram Director i/c, DSA, TNJFU Nagapattinam	30 min.
20.02.2024	GIFT Tilapia Seed Production Technique	Dr.P.Chidambaram Director i/c, DSA, TNJFU Nagapattinam	45 min
21.02.2024	GIFT Tilapia farming technique	Dr. R Somu Sunder Lingam Assistant Professor Tilapia Research Centre Krishnagiri	45 min
22.02.2024	Integration of Aquaponics system with fish farming to increase profitability	Dr.S.Aanand Assistant Professor and Head i/c Erode Centre for Sustainable Aquaculture, Bhavanisagar Erode	45 min
23.02.2024	Farm made low cost feed formulation and production	Dr.E.Prabhu Assistant Professor Directorate of Incubation and Vocational Training in Aquaculture, Muttukadu, Chennai	45 min
	Quiz / Assessment activities		10 min
2nd Week			
26.02.2024	Marine Fin fish seed production – Sea bass, Pompano, Cobia and milkfish	Dr.C.Anand Assistant Professor &Head i/c Ramanathapuram Centre for Sustainable Aquaculture, Mandapam, Ramanathapuram	45 min
27.02.2024	Cage farming of marine fin fishes	Dr.C.Anand Assistant Professor &Head i/c Ramanathapuram Centre for Sustainable Aquaculture, Mandapam, Ramanathapuram	45 min
28.02.2024	Advanced techniques in Shrimp farming – Nursery,	Dr.T.Anand Assistant Professor	45 min

	Bioflocs etc.,	Theni Centre for Sustainable Aquaculture	
29.02.2024	Seaweed based entrepreneurship – Seaweed culture initiatives by State & Central Govt.	Th.Lamak Jayakumar Deputy Director of Fisheries (Mariculture), Dept. of Fisheries and Fishermen Welfare, Tamilnadu	30 min
	Live feed production for Marine Aquaculture	Mr. Dinesh Assistant Professor Mandapam Centre for Sustainable Aquaculture, Ramanathapuram	15 min
01.02.2024	Quiz / Assessment Activities		20 min
3rd Week			
04.03.2024	Loach farming practices	Dr.T.Anand Assistant Professor Theni Centre for Sustainable Aquaculture	45 min
05.03.2024	Loach Seed production technique	Mr.P.Velmurugan Kanyakumari Parakkai Centre for Sustainable Aquaculture (KKP CeSA), Ganapathipuram, Kanyakumari	45 min
06.03.2024	Intensive ornamental fish culture and breeding techniques	Dr. Cheryl Antony Dean-in-charge Dr. M.G.R Fisheries College and Research Institute, Ponneri	45 min
07.03.2024	Intensive farming of native and exotic carps	Dr.V.Senthilkumar Associate Professor Dept. of Fisheries Extension Economics and Statistics FC&RI, Tuticorin	45 min
08.03.2024	Quiz / Assessment Activities		20 min
4th Week			
11.03.2024	Etroplus farming technique	Dr.S.Aanand Assistant Professor and Head i/c Erode Centre for Sustainable Aquaculture, Bhavanisagar Erode	40 min.
12.03.2024	Application of Disruptive technologies in Aquaculture Sector	Dr. C. Llyod Chripin, Assistant Professor Dept. of Fisheries Extension Economics and Statistics FC&RI, Ponneri	30 min.
13.03.2024	Application of AI and IoT in	Dr. Mohd Tanveer	45

	Aquaculture sector	Dean i/c, College of Fisheries Engineering, Nagapattinam	min
14.03.2024	Biosensors future of aquaculture and packaging industries	Dr.D.Kesavan, Assistant Professor Dept. of Basic Sciences, CoFE, Nagapattinam	45 min
15.03.2024	Feed back and Final Assessment		15 min + 45 min

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