

PARTICIPANTS

The participants would include stakeholders like Aqua Farmers, Hatchery Technicians, Aquaculture Entrepreneurs, Feed Manufacturers, Ornamental Fish Entrepreneurs, Graduate Students, Research Scholars, Post-Doctoral Fellows, Academicians and Scientists. Only 20 participants will be selected based on their need and on first come first basis.

CONTENT OF THE TRAINING

- Collection, Isolation, Identification and Culture techniques of marine microalgae.
- Collection, Isolation, Identification and Indoor stock culture of marine cladocerans.
- Collection, Isolation, Identification and Intensive stock culture of marine copepods.
- Large scale mass production of marine cladocerans and marine copepods.

REGISTRATION

Participants are requested to send the registration form duly filled along with brief note about how you will benefit from this training. The selected participants would be informed. Based on the confirmation, the participants are requested to send the prescribed fee through online transfer after participation confirmation. The Bank Account details will be furnished during the time of selection intimation.

REGISTRATION FEE

Industrialist/Entrepreneurs : INR 5000
Faculty/ Scientist : INR 3000
PDF's/Research Scholars with fellowship : INR 2000
Non stipend Research Scholars/Students : INR 1000

The registration fees include training kit, working lunch and refreshments. Accommodation will be arranged for the participants on the request through payment basis.

REGISTRATION LINK

<https://forms.gle/Lu7WiqzLMYcGkkq5A>



CONTACT FOR INFORMATION:

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सत्यमेव जयते



HANDS-ON TRAINING ON

MASS PRODUCTION OF MARINE CLADOCERANS AND COPEPODS (MPMCC-2023)

Sponsored by

**Department of Biotechnology (DBT)
Ministry of Science & Technology
Govt. of India, New Delhi-110 003.**

29-31 August 2023



Organized by

**MARINE PLANKTONOLOGY &
AQUACULTURE LABORATORY**

Department of Marine Science

School of Marine Sciences

BHARATHIDASAN UNIVERSITY

(Accredited with A+ Grade by NAAC in the Third Cycle)

Tiruchirappalli-620 024.

Tamil Nadu

IMPORTANT DATES

Submission of Registration Form : 18 August 2023
Confirmation : 19 August 2023
Submission of Registration Fee : 21 August 2023
Acceptance Notification : 22 August 2023

ABOUT THE UNIVERSITY

Bharathidasan University, named after the grearevolutionary Tamil Poet, Bharathidasan was established in February 1982. The motto of the University "We will create a brave new world" has been framed from Bharathidasan's poetic words ("புதியதோர் உலகம் செய்வோம்"). The University accredited with A⁺ Grade by NAAC in the third cycle 41st rank in NIRF (2023) and endeavours to be true to such a vision by creating in the region a brave new world of academic innovation for social change. With the ultimate aim of creating a brave new world, Bharathidasan University ensures the pursuit of excellence in teaching, learning, research, and extension of knowledge through higher education. The mission of Bharathidasan University is to promote scholarly, scientific and critical inquiry among the learners to move forward in the frontiers of knowledge and enrich and elevate them as the citizens of the state, the nation, and the world by offering nationally and internationally competitive learning and creative activity through quality programmes of teaching, research, and extension. Bharathidasan University endears to espouse to such core values that position the Institution on the righteous path in its relentless endeavour of creating 'A New Brave World' characterized by Creative Excellence, Community Equity, Competence Eminence and Characteristic Exemplar. The university has grown with an excellent research base, offering Postgraduate and Research programmes through 4 Faculties, 16 Schools, 37 Departments and 29 Specialized Research Centres.

ABOUT THE VENUE

Tiruchirappalli is situated in the central-region of the Tamil Nadu state and is famous for historic temples, educational institutions and industries. This is fourth largest city of the state and is well connected by road, train and air. The city is 380 km south of Chennai. An International Airport is also available at Tiruchirappalli. The weather is pleasant during August. The temperature ranges between 28 and 32°C during daytime but the evening temperatures will be lower up to 26°C.

ABOUT THE DEPARTMENT

The Department of Marine Science was started in July 2005, with the aim of high-quality teaching and research in Marine Biology, Aquaculture, Fishery Science, Oceanography, Coastal Zone Management, Marine Pharmacology, Marine Biotechnology and Marine Geology. The department offers PG, M.Phil., and Ph.D. programmes in Marine Science. The department is involved in quality scientific research and effective communication of results through publication and presentation to both academic and public audiences. It also extends technical assistance to the stakeholders in addressing marine sciences-related issues and concerns and addresses appropriate, regional, national and international issues and concerns. The Department of Marine Science has thus developed a strong expertise in various aspects of Ocean Science include Marine Planktonology & Aquaculture, Marine Biogeotechnology, DNA Barcoding and Genomics, Marine Pharmacology & Toxicology and Palaeoceanography. The department so far completed nearly 20 major research projects and currently progressing nearly 8 projects sponsored by various funding agencies like, UGC, DST, DBT, MoES, MoEF & CC, SERB, ISRO, TNSCST, ECOSOC-UN etc. The Department received financial support from University Grants Commission through UGC-Innovative Programme and Department of Science and Technology through DST-FIST-I (Level-I).

ABOUT THE LABORATORY

Marine Planktonology & Aquaculture Laboratory functioning under the Department of Marine Science. The Laboratory has state of the art facilities like Marine Live Feeds Culture Facility, RAS Facility for marine live feeds, Aquaponics Gas Chromatograph, Inverted Phase contrast microscope, Inverted Epifluorescence microscope, High-End Stereo-zoom Microscope, PCR, Gel Documentation, Gel Electrophoresis, UV-Visible Spectrophotometer, Environmental Chamber, Generator, Cooling centrifuge, Circulated water bath, Deep Freezers, Automated Autoclave, Hot Air Oven, Plankton Nets etc. The Lab., conducts research in the areas of basic and applied aspects of marine plankton and aquaculture including mass production and application of marine live feeds in sustainable aquaculture.

SCOPE AND OBJECTIVES OF THE TRAINING

Aquaculturists have argued that one of the challenges for the development of a sustainable and species diverse aquaculture industry is lack of suitable live feed at the larviculture phase. The sensitive first-feeding larvae has become one of the major bottlenecks preventing the full commercialization of many farmed fishes. The larval phase is the crucial stage in the fish reproduction cycle as this stage will lay out the foundation for various essential potentials of the fish, for example stress level, disease resistance, development success, growth rate, pigmentation and metamorphosis. Thus, the provision of high-quality and suitable live feed is crucial for the success of fish larvae aquaculture. At present, some live feeds such as copepods, rotifer, cladocerans, amphipods, and polychaetes were harvested from the wild and fed to the larvae and brooders. However, unfortunately, the wild collected live feeds are forming a way to entry of pathogenic organisms, which can cause diseases to the cultivable organisms. Furthermore, collection of live feeds from wild is a time-consuming job and the availability of necessary species in required numbers is also never sure. Like-wise Artemia is imported from foreign countries which can increase the cost of production. In this context, culture of marine live feeds in captive condition is highly essential for country like India. However, viable technologies for the exhaustive production of marine live feeds are missing in aquaculture industry especially in India due to lack of proper culture technology besides lack of knowledge on reproduction and developmental biology. Therefore, the Hands-on Training on "Mass Production of Marine Cladocerans and Copepods (MPMCC-2023)" is aimed.

As a part of a Major Network Research Project (BT/PR40452/NDB/39/750/2020; Dated, 02.09.2021) main titled, "Cell and Developmental Biology of Marine Organisms" and sub-titled "Developmental Biology of Marine Live Feed Organisms in Aquaculture" of the Department of Biotechnology (DBT), Ministry of Science and Technology, Govt. of India, New Delhi, this training course is planned at the Department of Marine Science, Bharathidasan University during 29-31 August, 2023. The Training Course is organized by Dr. P. Santhanam, Professor & Principal Investigator, DBT Network Project sponsored by the Department of Biotechnology (DBT), Govt. of India, New Delhi. The Course aimed at providing Aqua Farmers, Hatchery Technicians, Aquaculture Entrepreneurs, Feed Manufacturers, Ornamental Fish Entrepreneurs, Graduate Students, Research Scholars, Post-Doctoral Fellows, Academicians and Scientists in India.