WHO CAN PARTICIPATE?

UG / PG Students
Interested in Fisheries Science or Marine Biology

Postdoctoral Fellows
Seeking advanced quantitative fisheries skill

PhD Scholars
Working in or exploring entry into fisheries-related fields

Faculty & Scientists
From relevant disciplines looking for applied training

International Training on
FISH STOCK ASSESSMENT & ECOSYSTEM MODELLING

9 - 11th July 2026

COURSE LEVEL

This course provides a conceptual background reinforced by quantitative applications designed to illustrate model features. Advanced themes and programming techniques will be covered to prepare participants for more advanced courses or independent study on related topics.

COURSE COORDINATOR

DR. S. VENU
Associate Professor
Department of Marine Biology, Microbiology and Biochemistry, CUSAT

COURSE CO-COORDINATOR

SENIOR PROF. DR. M. HARIKRISHNAN
School of Industrial Fisheries (SIF), CUSAT

COURSE ADVISOR

SENIOR PROF. DR. S. BIJOY NANDAN
Dean Faculty of Marine Sciences
CUSAT

Head of the Departments

Dr. Mini Sekharan, Director
School of Industrial Fisheries, CUSAT

Dr. T. P. Sajeevan, Head
Department of Marine Biology, Microbiology & Biochemistry, CUSAT

CONTACT

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Training at a Glance

Dates	9 – 11 July 2026
Duration	3 Days
Venue	Lakeside Campus, CUSAT
Mode	In-Person
Language	English

Course Fee

UG/PG Students	Rs. 750/-
PhD Scholars	Rs.1500/-
Postdoctoral Fellows	Rs.2000/-
Faculties / Scientists	Rs.4500/-

SCAN FOR REGISTRATION

LAST DATE FO REGISTRATION
07-07-2026

Organised by

Dept. of Marine Biology, Microbiology and Biochemistry
School of Marine Science
Cochin University of Science and Technology

In collaboration with

School of Industrial Fisheries
CUSAT

Department of Marine Biology, Microbiology & Biochemistry

The Department of Marine Biology, Microbiology and Biochemistry is the oldest department of CUSAT, established in 1938 as an Oceanographic Laboratory of Travancore University. It is one of the foremost Marine Biology departments in India.
The department has been actively engaged in prestigious programmes including the International Indian Ocean Expedition, International Mussel Watch Programme, Indo-Dutch Cooperative Programme, International Biosphere Geosphere Programme, and Arctic, Antarctic and Southern Ocean Expeditions.
It offers M.Sc. Marine Biology (since 1958) and the recently launched M.Sc. Marine Genomics (2024). The department is also an approved PRIMER Data Analysis Centre.

School of Industrial Fisheries (SIF)

Established in 1976 and elevated to a School under CUSAT in 1995, the School of Industrial Fisheries offers advanced postgraduate (M.Sc. and M.F.Sc.) and Ph.D. programs focusing on fisheries science, technology, seafood safety, and trade. Having produced over 100 Ph.D. graduates and 1,000 professional postgraduates, its alumni actively lead and spearhead the global seafood industry, research institutions, and government fisheries administration both in India and abroad.

Objectives of the Training

The overarching goal of this course is to educate participants on the fundamentals of population dynamics and stock assessment. Using case studies and practical exercises, the course covers both theoretical components and their real-world applications.

Specific Objectives

- Understand stock assessment's function in fishery science
- Familiarise with traditional stock assessment models
- Build simple models and estimate parameters
- Apply fisheries management and ecosystem modelling concepts

By Completion, Participants Will:

- Understand data-collection requirements for various assessment methods
- Apply single-species assessment methodologies to fisheries
- Use simulation models to improve scientific guidance for managers
- Be familiar with biological and economic reference points in fishery management

COURSE DIRECTOR

Dr. Sachinandan Dutta
Associate Professor
Sultan Qaboos University, Oman

Dr. Sachinandan Dutta is an Associate Professor at the Department of Marine Science and Fisheries, College of Agricultural and Marine Sciences, Sultan Qaboos University, Muscat, Oman, where he teaches Fisheries Management.

He holds a Ph.D. in Ecosystem Modeling and Fisheries Management from Jadavpur University, India, with a diverse educational background spanning Zoology, Conservation Biology, Oceanography, and Fisheries Management.

His research interests include Fish Stock Assessment, Marine Ecosystem Modeling, Marine Pollution, Artificial Reefs, and Sustainable Marine Resource Management.

50+	UNESCO MAB	UNIDO/FAO
Peer-reviewed publications in international journals	Young Scientists Award 2022, Oman	International Sectoral Expert; BOBLME & FAO-SDS contributor