

One Day Skill Development International Workshop-cum- Training

on

Application of AI and ML in Ecological Modelling and Sustainability

to observe

Aranya Saptaha – 2025

18.07.2025



Organized by

**Department of
Environmental Science
University of Kalyani**

About the Workshop:

The Department of Environmental Science, University of Kalyani, is proud to organize One Day Skill Development International Workshop-cum-Training on "Application of AI and ML in Ecological Modelling and Sustainability" to observe 'Aranya Saptaha' – 2025.

This workshop aims to bridge the gap between cutting-edge computational techniques and ecological sciences by equipping students, researchers, and professionals with practical skills and interdisciplinary insights. As environmental challenges grow in complexity and urgency, AI and ML offer powerful tools for predictive modelling, spatial analysis, ecosystem management, and decision-making in the context of sustainability.

This initiative is part of our broader commitment to promoting environmental awareness, technological empowerment, and sustainable development during 'Aranya Saptaha' - a week dedicated to create awareness on environmental conservation & sustainability. We welcome participants from diverse academic and professional backgrounds to join us in this collaborative learning experience that blends ecology with innovation.

Workshop Objectives:

The program will feature expert lectures, hands-on sessions, and interactive discussions:

- To introduce participants to the fundamentals of ecosystem-based modelling approaches within the context of sustainable marine resource management.
- To provide hands-on training on the application of Ecopath with Ecosim (EwE) software, a widely used tool for simulating food web dynamics and assessing ecosystem-level impacts.
- To demonstrate how AI and ML techniques can enhance ecological modelling accuracy, prediction, and decision-making.
- To foster an understanding of how ecosystem models can contribute to global efforts in achieving sustainability and resilience in marine and aquatic systems.

Who can attend?

- **Target Participants:** PG Students, Researchers, Academicians, Corporate Personnel
- Basic knowledge of any programming language is preferable
- Registered participants should have personal Laptop
- Total number of seats are limited to 40
- Participants will be selected as first-cum-first-serve basis

Registration Fee: 500/- through SBI collect

<https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>

(Please upload the payment receipt in Google form during registration)

How to Apply?

Registration through Google form link:

<https://forms.gle/vxiDKNx2GqUGav2f9>

(Before payment please check if the Google form registration link is active or not)

Patron:

Prof. Kallol Paul, Honb'le Vice-Chancellor, University of Kalyani

Co-Patrons:

Prof. Chandranath Pal, Dean, Faculty of Science, University of Kalyani

Prof. Satyajit Dhar, Dean, Faculty of ETM, University of Kalyani

Workshop Coordinator:

Prof. Soma Mukherjee, Head, Dept. of Environmental Science, University of Kalyani

Resource Person:

Dr. Sachinandan Dutta, Assistant Professor, Department of Marine Science and Fisheries, Sultan Qaboos University, Sultanate of Oman

Academic Advisory Committee:

1. Prof. Krishna M. Agrawal, Director, IISWBM, Kolkata
2. Prof. Umesh Kumar Singh, University of Allahabad, UP
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1. Registrar, University of Kalyani
2. Finance Officer, University of Kalyani
3. Controller of Examinations, University of Kalyani
3. Director, IQAC Cell, University of Kalyani

Members:

- **Dr. Alok Chandra Samal**, Dept. of Environmental Science, KU
- **Mrs. Sharmistha Santra**, Dept. of Environmental Science, KU

Venue: University of Kalyani

Important Dates:

- ❑ Opening of Registration: **01.07.2025**
- ❑ Last date of Registration: **15.07.2025**
- ❑ Workshop Date: **18.07.2025**

For more details:

Contact: Dr. Alok Chandra Samal, Dept. of Environmental Science, University of Kalyani.

Mail Id: envsworkshop@klyuniv.ac.in

N.B.: Accommodation will be provided on payment basis.