

Final Presentations by MRC's UDA Summer Interns from IIT Bombay, IIT Delhi, IIT Madras and IIT Kanpur

Planned for July 17, 2026 | 4 PM IST onward

About:

The Maritime Research Centre (MRC), in collaboration with Nirdhwani Technology Private Limited (NDT), is pleased to host an upcoming workshop highlighting the final projects of participants in the 2026 Underwater Domain Awareness (UDA) Summer Internship Program. This special event, which is scheduled for July 17, 2026, will feature thought-provoking presentations by interns from some of India's leading academic institutions– IIT Bombay, IIT Delhi, IIT Madras and IIT Kanpur. This workshop aims to highlight the innovative research and technological exploration undertaken by these budding engineers and researchers in the field of UDA. It will serve as an important milestone in the internship programme, providing a structured platform for reflection, assessment, mentorship, and knowledge exchange while fostering a culture of research excellence and interdisciplinary engagement.

Event Details:

- Date: July 17, 2026
- Time: 4:00 PM IST onward
- Venue: Online (Webex and YouTube Livestream)

Format and Structure:

As part of this webinar, our UDA Summer Interns from prestigious institutes such as IIT Bombay, IIT Madras, IIT Delhi, and IIT Kanpur will give short presentations on their projects. The UDA Summer Internship Program is designed to nurture young talent and engage them in real-world applications of cutting-edge maritime research.

The primary objectives of hosting their presentations include:

- To present the research projects that these summer interns are working on, highlighting significant findings and potential impacts.
- To foster an environment of knowledge exchange among interns, mentors, and the broader research community.
- To offer feedback and suggestions from experienced researchers and industry experts to help interns refine their work.
- To build connections between interns, faculty, industry professionals, and researchers, encouraging future collaborations.

About the UDA Framework:

The Underwater Domain Awareness (UDA) framework, developed by the MRC, has garnered widespread recognition for promoting safe, secure, and sustainable development in the tropical littoral waters of the Indo-Pacific region. The Digital Ocean construct supported by the UDA framework will significantly enhance good maritime governance. It encourages the pooling of resources and the synergising of efforts among stakeholders and has developed technological tools to support the livelihoods of coastal communities. More details: [LINK HERE](#)

Expected Outcomes:

The webinar is expected to:

- Strength awareness regarding sustainable ocean stewardship and integrated underwater and maritime governance.
- Promote interdisciplinary collaboration under the broader UDA Framework.
- Facilitate knowledge exchange on emerging underwater and marine ecological challenges
- Encourage stakeholder engagement towards sustainable Blue Economy initiatives.
- Inspire future research, innovation, and policy intervention in the underwater and maritime domains.

Programme Details

Date: 17th July 2026

Duration: 1600 hrs – 1800 hrs

Time	Programme Details
4:00-4:05 PM	Welcome Remarks by Dr. (Cdr) Arnab Das, Founder and Director, MRC
4:05-4:15 PM	MRC's Projects Overview by Mr Shridhar Prabhuraman, Deputy Director, MRC
Group 1 projects: Marine Spatial Planning	
4:15-4:20 PM	Dev Raj Karan Singh from IIT Madras: Presentation on “Riverine Flood Module for Tropical Major Basins.”
4:20-4:25 PM	Mahaswi Ganipisetty from IIT Bombay: Presentation on “Coral Reef Bleaching Risk Modelling for Arabian Sea and Bay of Bengal.”
4:25-4:30 PM	Premkumar Narayan Tambekar from IIT Delhi: Presentation on “Passive Sonar Detection and Classification System.”
4:30-4:35 PM	Ashish Kumar Jha from IIT Kanpur: Presentation on “Future Climate Modelling and Coral Reef Bleaching.”
4:35-4:40 PM	Pranav Ashok Mahitkar from IIT Madras: Presentation on “Wind- and Rain-Driven Ambient Noise Layer for the IOR.”
Group 2 projects: Sediment Management	
4:40-4:45 PM	Disha Gugale from IIT Bombay: Presentation on “Sediment Transport Modelling of the Brahmaputra River.”
4:45-4:50 PM	Sagar Yadav from IIT Delhi: Presentation on “Assessment of Marine Sediment Bearing Pressure.”

4:50-4:55 PM	Aryan Singh from IIT Delhi: Presentation on “Satellite-Based Estimation of Suspended Sediment Concentration (SSC) in Ujjani Reservoir.”
Group 3 projects: Marine Biofouling	
4:55-5:00 PM	Varun Malviya from IIT Kanpur: Presentation on “CleanHull- RL: Deep Reinforcement Learning for Strategic Ship Maintenance.”
5:00-5:05 PM	Lovina Goyal from IIT Kanpur: Presentation on “Biofilm Maturation and Marine Fouling Succession: Exploring Recuritemnt Dynamics in Tropical Marine Systems.”
Group 4 projects: Fisheries and Aquaculture	
5:05-5:10 PM	Shivam Gawande from IIT Bombay: Presentation on “Detection and Characterisation of Small Artisanal Fishing Fleets in the Indian EEZ Beyond AIS.”
5:10-5:15 PM	Shiwang Gupta from IIT Delhi: Presentation on “Detection and Mapping of Fish Farms and Seaweed Cultivation Zones in Indian Coastal and Offshore Waters. ”
5:15-5:20 PM	Samyak Kumar from IIT Madras: Presentation on “ <i>Marine Heatwaves (MHWs): Drivers, Predictability and Fisheries Impact on the Bay of Bengal</i> ”
Comments and Feedback Session	
5:20-5:30 PM	Hrishikesh Dhande , Deputy Director, Pune International Centre, Pune, Maharashtra, India
5:30-5:40 PM	Rear Admiral YN Jayarathna (Retd) , Former Chief Hydrographer, Sri Lanka
5:40-5:50 PM	Dr Hussain Rasheed Hassan , Former Minister of Environment and Former Minister of Fisheries, Agriculture, and Marine Resources, Maldives
5:50-6:00 PM	Ambassador Tariq A. Karim , Bangladesh (Retd.)
Concluding Remarks	
6:00-6:10 PM	Amb. (Retd.) Sudhir T. Devare , Former Indian Diplomat from the Indian Foreign Service (IFS) 1964 Batch; Former Secretary of the Ministry of External Affairs, Government of India.

Convenor

Dr (Cdr). Arnab Das, Founder & Director

Maritime Research Center (MRC), Pune.

Mobile - +91-9665033463; Email – director@maritimeresearchcenter.com