## *Charting Progress: Mid-Internship insights from UDA Summer Interns from IITs*
### *(Join us on 28th June 2025, from 4:00 PM IST onwards)*

## About:

The Maritime Research Center (MRC), in collaboration with Nirdhwani Technology Private Limited, is scheduled to host a webinar showcasing the mid-internship progress of the distinguished participants in the Underwater Domain Awareness (UDA) Summer Internship Program for 2025. *This webinar will feature insightful presentations by interns from some of India's most prestigious academic institutions, including the Indian Institute of Technology (IIT) Bombay, IIT Kharagpur, and IIT Madras.* The webinar aims to highlight the innovative research and technological exploration undertaken by these budding engineers and researchers in the field of Underwater Domain Awareness.

## The primary objectives of hosting this workshop are:

- **Showcase Research Outcomes:** To present the research projects that these summer interns are working on, highlighting significant findings and potential impacts.

- **Encourage Knowledge Sharing:** To foster an environment of knowledge exchange among interns, mentors, and the broader research community.

- **Provide Constructive Feedback:** To offer feedback and suggestions from experienced researchers and industry experts to help interns refine their work.

- **Strengthen Networking:** To build connections between interns, faculty, industry professionals, and researchers, encouraging future collaborations.

The UDA Summer Internship Program is designed to nurture young talent and engage them in real-world applications of cutting-edge maritime research. This mid-internship presentation offers an opportunity to review the significant strides made so far, discuss challenges encountered, and chart the path forward for the second half of the program. *During this workshop, our internal team will also present, followed by comments and feedback from the experts.*

## Event Details:

- **Date:** 28 June 2025
- **Time:** 4:00 pm IST onward
- **Venue:** Online (through Webex and YouTube Broadcast)
- **Format:** Each presenter (interns and their mentors) will deliver a 10-minute presentation, followed by comments and feedback from the experts.

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 across stakeholders and has devised technology tools to support the livelihoods of coastal communities.

**Programme Details**

**Convenor:** Dr. (Cdr) Arnab Das; Founder & Director, Maritime Research Centre (MRC), Pune

*The schedule of the programme is as follows:*

| Time | Programme Details |
|------|-------------------|
| 4:00- 4:05 PM | Welcome Remarks by *Dr. (Cdr) Arnab Das*, *Founder and Director, MRC, Pune* |
| 4:05- 4:15 PM | *MRC's Projects Overview* by *Shridhar Prabhuraman, Deputy Director, MRC, Pune* |
| **Presentations by Group 1** | |
| 4:15- 4:25 PM | Presentation by *Arkadipta Saha from IIT Kharagpur* on *'Neural Network for Estimation of Transmission Loss in Indian Ocean Region'* |
| 4:25- 4:35 PM | Presentation by *Deepak Kumar from IIT Kharagpur* on *'Dark Ship Detection using SAR and AIS Data in Indian Ocean'* |
| 4:35- 4:45 PM | Presentation by *Jai Pinjarkar, MRC Research Engineer*, on 'Digital **Transformation for the Shipping Radiated Noise Management**' |
| 4:45- 4:55 PM | Presentation by *Shlok Nemani, MRC Fellow,* on *'Digital Transformation for Coastal Management'* |
| 4:55- 5:05 PM | Presentation by *Sail Kushal (IIT Kharagpur)* on *'Fisheries and Aquaculture in Andaman and Nicobar Islands'* |
| 5:05- 5:15 PM | Presentation by *Thummalapelli Jeevan Kumar (IIT Kharagpur)* on *'Potential Fishing Zones'* |
| **Presentations by Group 2** | |
| 5:15- 5:25 PM | Presentation by *Romit Kaware, MRC Fellow, on 'Sediment Management in the Tropical Waters of Indo-Pacific'* |
| 5:25- 5:35 PM | Presentation by *Suchir Mamidala (IIT Madras) on 'Digital Mapping of the Fouling in the Tropical Waters'* |

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| 5:35- 5:45 PM | Presentation by *Angothu Yaswanth (IIT Kharagpur) on 'Satellite-Based Sediment Load Estimation and Sediment Classification'* |
| 5:45- 5:55 PM | Presentation by *Aryan Anil Pawar (IIT Bombay) on 'Safeguarding Undersea Cables for India's Strategic Security'* |
| 5:55- 6:05 PM | Presentation by *R John Finny (IIT Madras) on 'Sediment Transport Modelling for Ujjani Reservoir'* |
| **Comments and Feedback Session** ||
| 6:05- 6:10 PM | Intervention and Comments by *Mr Roshan Talera, Executive Director at Dynamic Logistics* |
| 6:10- 6:15 PM | Intervention and Comments by *Ms Alisha Poonawala, Managing Partner, APM Consulting* |
| 6:15- 6:20 PM | Intervention and Comments by *Dr. Anju Gupta, Co-Founder and President at IvyCamp* |
| **Concluding Remarks by Senior Dignitaries** ||
| 6:20- 6:30 PM | Final comments and feedback by *Mr Gopal Krishna Pilai, Former Home Secretary, Government of India* |
| 6:30- 6:40 PM | Closing remarks by *Amb. Anup Kumar Mudgal, Former Indian Diplomat and Member of the Blue Economy Task Force at FICCI* |
| 6:40- 6:45 PM | Vote of Thanks by *Mr Praful Talera, MRC's Adviser on Blue Economy* |

## Conclusion:

This webinar will provide an essential platform for the UDA Summer Interns from premier institutions to share their progress and engage with subject-matter experts. By initiating dialogue, encouraging innovation, and facilitating constructive feedback, the event highlights the Maritime Research Centre's commitment to capacity building and technological advancement in Underwater Domain Awareness. The collaborative effort between MRC and Nirdhwani Technology will not only nurture future leaders in maritime research but also foster innovation and drive progress in the field. Still, it will also strengthen the broader mission of sustainable and secure development in the Indo-Pacific region.