

MRC's Report on 'UDA Skilling Ecosystem' 2024-2025

The list of skilling activities included in this report is as follows:

1. RTMSSU has approved the academic Skilling Program on UDA
2. Establishing the UDA Learning Center platform for skilling
3. UDA Summer Internship and Fellowship Programs
4. Capacity Building workshops with Government Institutions
5. Skilling workshops at academic and corporate institutions
6. Participation in external skilling workshops
7. Skilling webinars in partnership with International Institutions
8. Field validation of the APY Tool in Maharashtra and Gujarat

RTMSSU has approved the academic Skilling Program on UDA



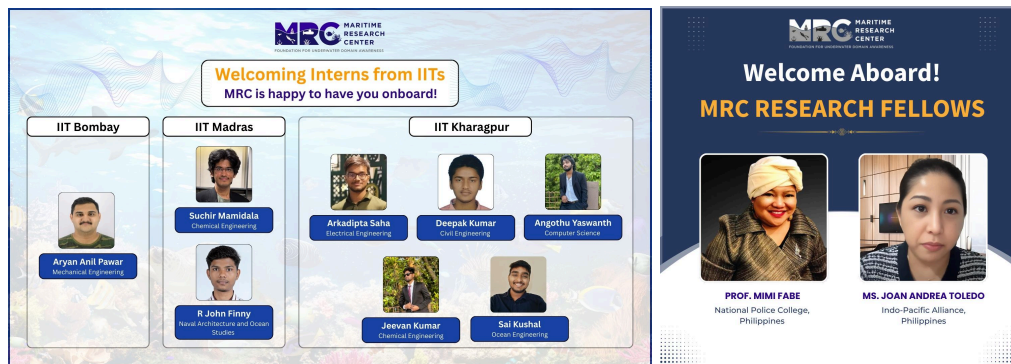
We have signed an MoU with the **Ratan Tata Maharashtra State Skills University (RTMSSU)** to formally launch India's first-ever skilling program in Underwater Domain Awareness. This is a significant step forward for India's maritime and underwater skill development. By building a skilled workforce in UDA, we're directly contributing to India's broader maritime vision and national security. The list of courses included in the UDA Skilling program encompasses topics such as the Blue Economy, Sediment Management, Marine Spatial Planning (MSP), Coastal Management, Underwater Radiated Noise (URN) Management, and Climate Change Risk Management.

Establishing the UDA Learning Center platform

A dedicated E-Learning platform with customised modules on various aspects of Underwater Domain Awareness (UDA) has been established on the UDA Foundation website. Major topics

included in the list are Basics of the Underwater World, Blue Economy, Climate Change Risk Management, Sediment Management, Digital Transformation and Underwater Radiated Noise Management. Notably, the module on **‘Basics of the Underwater World’** has already been accessed by over 5,000 government officers through the Karmayogi iGOT platform of the **Capacity Building Commission of India**—a strong step towards building awareness and capacity in this vital domain. **Over 130 interns, fellows and students from various colleges and institutes have accessed other e-learning modules** available on our e-learning platform.

UDA Summer Internship and Fellowship Programs for skilling



Out of 1,000+ applications from some of the most prestigious colleges and institutes, including IIT Bombay, IIT Delhi, IIT Kharagpur, IIT Madras, IIT Kanpur, and St. Stephen’s College, we carefully selected a group of talented students for our Summer Internship Program on Underwater Domain Awareness (UDA). We were equally delighted to welcome bright minds from leading global institutions, including University College London, the University of Virginia, Sciences Po, and the Symbiosis School of Liberal Arts. After the successful completion of their internship, a select few have been offered the opportunity to continue their journey with us as Research Fellows.

In addition, we are proud to host Research Fellows from the National Police College of the Philippines for a year-long Fellowship Program, which is a step forward in building global collaborations in UDA. These interns and fellows work with designated mentors who guide them and offer solutions when needed on topics related to UDA, including Sediment Management, Sediment Classification, Digital Transformation, Marine Spatial Planning, Freshwater Management, the Blue Economy, maritime security, Climate Change, and other relevant areas.

Skilling workshops at Government Institutions:



We have been actively engaged in capacity-building initiatives with key government institutions, fostering knowledge sharing and strengthening India's maritime capabilities. Our programs have catered to diverse stakeholders, including Armed Forces officers at the **Military Institute of Technology (MILIT) in Pune**, Foreign Service officers at the **Sushma Swaraj Institute of Foreign Service in New Delhi**, and Indian Navy officers at the **Anti-Submarine Warfare School in Kochi**. Additionally, MRC has contributed to the professional development of faculty and student officers from the **Defence Services Technical Staff Course (DSTSC)**. These engagements reflect MRC's commitment to building interdisciplinary understanding, promoting strategic awareness, and equipping officers with the tools necessary to address emerging challenges in the maritime domain.

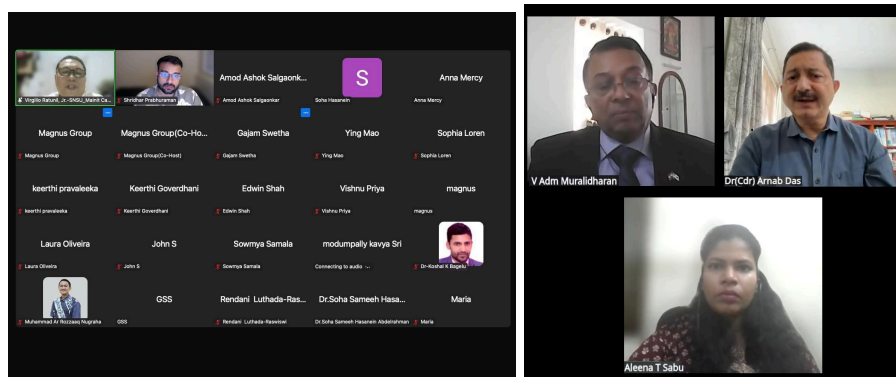
[Skiing workshops with academic and corporate institutions](#)



We place strong emphasis on capacity building through skilling workshops at both academic and corporate institutions, enabling young scholars and industry professionals to engage with cutting-edge maritime concepts and technologies. Our initiatives span prestigious universities and colleges, including the **University of Strathclyde (UK)**, the **UGC Centre for Maritime Studies at Pondicherry University**, **O.P. Jindal Global University in Sonipat**, **St. Stephen's College, University of Delhi**, **South Asian University, New Delhi** and **Fergusson College, Pune**. Extending beyond academia, MRC has also partnered with leading corporates, including **Capgemini** and **Bharat Electronics Limited (BEL)**, to conduct specialised workshops designed to strengthen domain knowledge and technical expertise. These efforts underscore MRC's commitment to

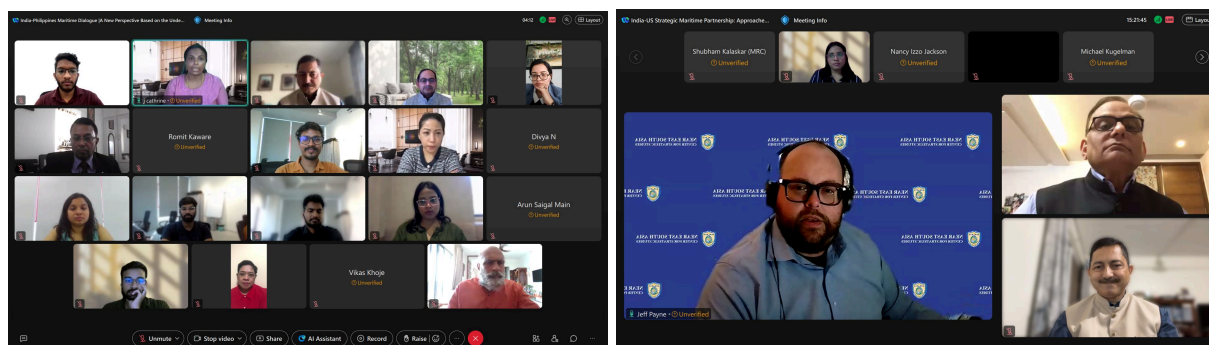
cultivating a skilled talent pool capable of making significant contributions to both maritime research and industry innovation.

Participation in external skilling workshops



We have actively participated in external skilling workshops and knowledge-sharing platforms, thereby extending our expertise beyond in-house programs. Notable engagements include the seminar on **“UDA in Coastal India”** conducted by the **Centre for Public Policy Research (CPR)**, where MRC contributed to fostering awareness and building interdisciplinary perspectives on the challenges and opportunities in the coastal domain. Similarly, MRC’s participation in the **World Aquaculture, Fisheries and Seafood Conference 2025** provided a platform to connect with international experts, share insights on sustainable practices, and highlight the role of UDA in driving innovation and resilience across the blue economy. These external collaborations strengthen MRC’s mission of building human resource capacity and bridging gaps between research, policy, and practice in the maritime sector.

Skilling webinars in partnership with International Institutions



As part of its international outreach, we have conducted UDA skilling webinars in collaboration with leading global institutions, creating platforms for cross-border dialogue, knowledge exchange, and joint capacity building. Through initiatives such as the **India–Philippines Maritime Dialogue** (held in collaboration with the **National Police College, Philippines**), the **India–US Strategic Maritime Dialogue** (Held in partnership with the **Near East South Asia Centre for Strategic Studies, USA**), and the **India–Japan Regional Dialogue** (Held in partnership

with the Sasakawa Peace Foundation, Japan), MRC brings together experts, policymakers, academics, and practitioners to deliberate on critical issues surrounding Underwater Domain Awareness (UDA). These webinars not only enhance technical and strategic understanding but also promote cooperation on themes such as maritime security, blue economy, and sustainable ocean governance. By engaging with international partners, MRC strengthens its mission of building an informed global ecosystem equipped to address the shared challenges of the maritime domain.

Field validation of the APY Tool in Maharashtra and Gujarat



The field validation of the **Area Production Yield (APY) Analysis Tool** in **Maharashtra and Gujarat** formed a crucial component of our **skilling initiatives**, as it bridged theoretical knowledge with practical, real-world application. By engaging the coastal community directly in field exercises, MRC provided hands-on exposure to advanced technologies and methodologies in UDA. This experiential learning not only enhances technical proficiency in areas such as data collection, acoustic signal analysis, and environmental monitoring but also builds problem-solving skills by linking research outcomes with real-world challenges in coastal and freshwater ecosystems. Through such field-based validation, MRC ensures that participants acquire both domain expertise and applied skills, thereby strengthening the talent pipeline needed for India's growing maritime and blue economy sectors.

More Details:

You can find elaborate details on our other day-to-day skilling initiatives by accessing the following documents:

1. Annual report 2024- [LINK HERE](#)
2. Newsletter for Quarter 1 of 2025- [LINK HERE](#)
3. Newsletter for Quarter 2 of 2025- [LINK HERE](#)