



A Report on Seminar on
“Maritime sector opportunities and career for Mechanical Engineers”
Organized by Department of Mechanical Engineering
In association with MITS ISTE Student Chapter
on 06.02.2026.



Report Submitted by: Dr. Gejendhiran S, Assistant Professors, Department of Mechanical Engineering; Dr. Ved Prakash, Assistant Professors, Department of Mechanical Engineering.

Resource Person Details: Dr. Pradeep Raja C, Assistant Professor, School of Marine Engineering and Technology, Indian Maritime University, (A Central University under Govt. of India), Kolkata Campus, West Bengal.

Venue: Seminar Hall A

Time: 11.00 AM

Mode of Conduct: Offline

Report Received on 07.02.2026.

Overview:

The maritime sector plays a vital role in global trade, offshore engineering, shipbuilding, and marine energy systems, offering diverse career opportunities for mechanical engineers. To create awareness among students about emerging prospects in this sector, the Department of Mechanical Engineering, MITS, in association with the ISTE Student Chapter, organized a seminar titled “Maritime Sector Opportunities and Career for Mechanical Engineers.”

The seminar aimed to familiarize students with current maritime industry trends, career pathways, and the relevance of mechanical engineering knowledge in marine applications. A total of 55 students actively participated in the event.

Report

The seminar commenced with Dr. Gejendhiran S, Assistant Professor, Department of Mechanical Engineering, who introduced the event and served as the Master of Ceremonies (MC). He welcomed the gathering and emphasized the importance of exploring multidisciplinary career opportunities beyond conventional mechanical engineering roles.



Following this, Dr. Prithivirajan R, Associate Professor, Department of Mechanical Engineering, addressed the gathering and delivered an informative session on current trends in the maritime industry. He highlighted developments in ship design, offshore structures, marine propulsion systems, automation, and sustainability in the maritime sector, motivating students to consider maritime engineering as a promising career path.

Subsequently, Dr. Ved Prakash, Assistant Professor, Department of Mechanical Engineering, formally introduced the Chief Guest, outlining the guest's expertise and professional contributions to the maritime field.

The Chief Guest then delivered an insightful and engaging lecture on "Maritime Sector Opportunities and Career for Mechanical Engineers." The session provided a comprehensive overview of the maritime industry ecosystem, emphasizing the critical role played by mechanical engineers in shipbuilding yards, offshore oil and gas installations, port and harbor infrastructure, and marine propulsion and auxiliary systems. The speaker also highlighted emerging opportunities in marine renewable energy, including offshore wind, tidal, and wave energy systems, as well as the growing demand for skilled professionals in the maintenance, inspection, and repair of marine machinery and structures.

In addition, the lecture shed light on future-focused domains such as green shipping, decarbonization technologies, smart ports, and digitalization in maritime operations, which are shaping the next generation of the industry. The Chief Guest further guided students on essential skill sets, relevant certifications, higher education pathways, and strategic career planning, enabling them to align their mechanical engineering background with the evolving needs of the maritime sector. The session encouraged students to explore interdisciplinary learning and prepare themselves for global career opportunities in maritime engineering.

The session was interactive, with students actively participating by asking questions related to career prospects, industry expectations, and future technological advancements in the maritime domain.

The programme concluded with a Vote of Thanks delivered by Dr. Gejendhiran S, Assistant Professor, Department of Mechanical Engineering, who expressed gratitude to the Management, Chief Guest, faculty members, ISTE student chapter coordinators, and student participants for their enthusiastic involvement and support in making the seminar a success.

Outcome of the Seminar:

- Students gained awareness of career opportunities in the maritime sector for mechanical engineers.
- Improved understanding of current maritime industry trends and technologies.
- Exposure to diverse domains such as shipbuilding, offshore engineering, and marine systems.
- Motivation to pursue specialized skills, certifications, and higher studies related to maritime engineering.

Summary:

The seminar on "Maritime Sector Opportunities and Career for Mechanical Engineers" successfully provided valuable insights into the scope and significance of the maritime industry. With the active participation of 55 students, the event achieved its objective of guiding mechanical engineering students toward emerging and rewarding career paths in the maritime sector.