



Department of Maritime Engineering

Indian Institute of Technology Gandhinagar



GreenShipping,
Smart Ports and
Blue Economy

About Our Department

Welcome to Department of Maritime Engineering

The maritime industry is undergoing a significant transformation driven by technology, digitalization, and regulations, requiring a skilled workforce equipped with a diverse set of technical and soft skills.

Maiden Department in the country, the Dept of Maritime Engineering @ IIT Gandhinagar is set to lead the Maritime sector through strengthened partnerships, continuous innovation, and sustained high-quality education, training, and research. Gujarat Maritime Board's emphasis on employment generation, creation of maritime clusters, and facilitation of robust industry-academia relationships strengthens this industry-driven academic program. Different dimensions, such as Port-led development, innovation-driven strategies, and national capacity building, are set as primitive targets.

With increasing competition from global maritime hubs, Indian shipyards and ports, education and training imparted in this Dept shall strengthen technological capabilities, modernize infrastructure, and adopt global best practices in the Maritime sector. The maritime sector increasingly requires professionals skilled in emerging technologies — including digitalization, artificial intelligence, autonomous vessels, and green shipping practices. This calls for dynamic curriculum reforms, greater emphasis on multidisciplinary learning, and stronger integration of practical exposure through internships, simulation training, and industry collaborations. The Maritime Engineering department is committed to building a future-ready maritime workforce, not only essential for sustaining competitiveness but for ensuring resilience in the face of disruptions such as decarbonization, supply chain realignment, and technological automation.

Why Choose Us

01

Work with leading faculty and international partners

02

Train in cutting-edge simulation and marine labs

03

Shape the future of sustainable maritime infrastructure

04

Marine Policy, Logistics & Safety



Programmes of Study

MTech and PhD



Advanced Steel Design



Analysis and Design of Maritime Structures



Coastal Engineering



Dynamics of Ocean Structures



Environmental Engineering



General Oceanography



HSE Practices in Maritime Engineering



International Maritime Law



Maritime Logistics



Ocean Engineering



Port and Harbour Engineering



Ship Theory



Steam and Gas Turbines



Wave Hydrodynamics

Department Leadership



Dr. Srinivasan Chandrasekaran Professor and Head of Department

Heading the Dept. is one of the very active academicians, serving academia and industrial consultancy for 25 years in various capacities. His contributions to capacity building in ocean engineering and offshore structures are visible through the innovative methods of teaching and research to undergraduate and postgraduate students in India and abroad. He has invested his ideas in creating a large number of video course for the distance education offered by the National Program of Technology Enhanced Learning (NPTEL) and Massive Open Online Course (MOOC), Ministry of Education, Govt of India. These courses benefitted many academicians, students, and practicing engineers in India and abroad. He also authored twenty-five textbooks and edited four books in the domain of offshore structures, contributing to learning through reinforced concepts. He is a member of many professional bodies in India and abroad.

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