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Industry Partner for Internship & Placement

Courses are Approved by DG Shipping, Govt. of India.

#Leads to become the Captain of a Ship
B.Tech in Marine Engineering

Why Career as “Navigating Officer or Marine Engineer” is very Exiting & Rewarding?

Have you ever been on a cruise ship? The modern world’s global commerce is largely enabled by the ocean-going technological marvels manned by Navigating Officers & Marine Engineers. With the increase in international global sea traffic, the demand for Navigating Officers & Marine Engineers in Indian and foreign shipping companies has risen. India is one of the largest suppliers of these Officers and Engineers.

Today’s oceans are plied by bulk carriers, oil tankers, gas carriers, chemical tankers, container ships, Reefer ships, that are amazingly huge and complex. The largest ship ever built, once named Seawise Giant, was over 1500 feet long. Royal Caribbean International recently launched 2 Oasis class cruise ships, floating paradises that routinely carry over 5000 happy cruisers on vacation. The Navigating Officers & Marine Engineering involved in assuring the safety of the crews and passengers of these ships is challenging and exciting.

Ships & other water transport vehicles, such as yachts, submarines, aircraft carriers, and tankers, these days use the most modern technology and equipment that can be understood, maintained and handled only by Navigating Officers and Marine Engineers. They manage the enormous power of the ship and all its complicated machinery and help it cross the ocean.
How to Become a Marine Engineer?

A bachelor’s degree in Marine Engineering (B.Tech) is required for Marine Engineers to join ship. Applicants with practical experience are more attractive to employers, which is why cooperative engineering programs (which combine classroom learning with on-the-job training) are so beneficial and essential.

High school students (10+2) who want to prepare for these professions should study science (like physics and chemistry) and mathematics (like trigonometry, algebra, and calculus) and should pass Board Exam with a minimum of 60% average marks in PCM. Also minimum 50% marks in English in class Xth or XIth standard.

Applicants need to clear Medical Test from the DG Shipping, Govt. of India approved doctor.

Undergraduate students of marine engineering can expect to study strength of materials, mechanics of machine, thermodynamics, mathematics, English and marine engineering subjects like marine internal combustion engine, marine auxiliary machineries, ship construction, naval architecture, ship operation and management, engineering drawing and computer-aided design etc.

The age of the candidate should be between 17-25 years, at the time when the course starts.

Infrastructure at Campus

- The institute has a technical library, stocked with books, journals, videos, and periodicals.
- The workshop has a test rig, diesel engine and working models of ship machinery and components.
- Ship-in Campus having 2-stroke Main Propulsion Engine of 3000 BHP along with all Auxiliaries, Generators etc. are available at running condition for practical training.
- Residence in the hostel is compulsory and separate hostel is also available for Boys and Girls students.
- Cadets must wear uniforms throughout their period of training.
Career Prospects of Marine Engineering

It's estimated that job prospects for marine engineers and naval architects will grow by 17% in the next decade. This rate of growth is about average. There is an increasing need for ships and systems which can transport energy products (like liquefied natural gas) all around the planet, which will require more marine engineers and naval architects.

The demand for Marine Engineers in Indian and Foreign shipping companies has risen sharply, with the increase in international global sea traffic. The operations and maintenance of the engine room are the main obligations of a marine engineer. This means that they deal with the technical area of the ship. In fact, they are the overall in-charge of the engine and its crew. The top rung of the hierarchical ladder is the post of a chief engineer.

How to Become a Chief Engineer of a Ship?

Trainee Marine Engineers joining ships have to appear for certificate of competency examinations, conducted by D.G. Shipping, after specified interval of sailing experience and gradually rise to 5th Engineer, 4th Engineer, 3rd Engineer, 2nd Engineer and finally the Chief Engineer of a ship, who is the overall in-charge of operation and maintenance of all ship board machineries.

Opportunities at shore:

Marine engineers usually sail for 15-20 years after which they take land jobs in the following areas:

- Surveyors with the Director General of Shipping, Govt. of India
- Surveyor with various Classification Societies all over the world
- Faculty in various Maritime colleges in India, Gulf countries, U.K., Singapore, Australia, Canada.
- Ship Managers, Ship Superintendent in Indian and Foreign shipping companies.
- Surveyors with various insurance companies, Quality Management system, Comprehension Inspection Program (CIP) monitored by the Director General of Shipping, Mumbai etc.
- Administrators, Banks, Shipyard Engineers
- **Business**: A Marine Engineer can become an entrepreneur in various fields
- Manager in Any Industry
- The Chief Engineers with Tea gardens, Five stars Hotels, Tyre Industry, Large sugar mills, Chemical Industries, or any other processed plant.
- There are job opportunities in other sectors too like banks, hotels and power plants.

Additionally, many oil companies are trying to drill for oil under the ocean in climates which are quite inhospitable. Countries all over the world recognize the urgent need for ships which generate less pollution. Advances in technology are making this possible, and many governments are allocating more resources toward reducing pollution. These factors will create more demand for marine engineers and naval architects for years to come.

Besides this, Marine Engineers can work in governments as well as the Indian Navy.

The Neotia University has professional collaboration with K. Shipping Pvt. Ltd., Deston Ship Management Pvt. Ltd. and Blue Bird Shipping Management Pvt. Ltd. for training, internship and placement of TNU students.

Salary

The pay is very attractive. A marine engineer at operational level (first rung after the 6 months training) earns between ₹44,000 to ₹88,000 a month. Those joining international shipping companies receive much higher pay packages. This goes up to ₹3-4 lakh a month with promotions. A chief engineer would earn anything around ₹5 – 10 lakh per month. These figures can change with the size, type and flag of the ship.
Bachelor in
Nautical Science#

How to Become a Captain of a Ship?

The life of a merchant navy officer or personnel on board a ship is adventurous, exciting, and extremely rewarding. A marine officer globe trot, visits beautiful places, and meets interesting people. This is true for navigating officers working on any type of ship or vessel irrespective of the people he is working for; however, it is an added advantage if he/she happens to be on a cruise ship or any of the top 10 cruise lines, not to mention the fun if one is on the biggest cruise ship or a futuristic ship.

Bachelor degree in Nautical Science course assists a person to grow to be a deck officer and land you up as a deck cadet, third officer, second officer, chief officer and finally a captain of a ship. Captain means who is commanding the vessel that is he is overall in charge of the ship.

The main responsibilities of navigating officers are the navigating of seafaring vessels and determining a ship’s position by means of the sun, moon, stars, landmarks, magnetic compasses, electronic radio and radar systems. Continual reference to this equipment and to landmarks helps to keep the ship on course. Navigating officers’ skills are particularly necessary in situations such as passing through narrow waterways and entering and leaving harbours. They need to be able to navigate a ship by radar alone.

Also, the navigating officers are the Administrators of the ship and is responsible for all the passengers, Cargo and Ship’s business. They have to study Navigation, Naval Architecture, Voyage Planning, Meteorology, and many more interesting subjects.

#Leads to become the Captain of a Ship
Qualification Required to become a Nautical Expert at Sea?

It is a 3 years B.Sc.(hons) in nautical Science full time residential program. This Bachelor’s Degree course consists of both theoretical as well as practical sessions. Much importance is given to the practical sessions. Candidate should be 12th pass under 10+2 system of schooling (Science stream), with Physics, Chemistry and Mathematics as the main subjects. The minimum marks required are 60% marks average in PCM subjects.

The candidate should have scored at least 50% marks in English subject either 10th std. or 12th std. examination.

The age of the candidate should be between 17-25 years, at the time when the course starts.

Along with educational qualification, medical standards are also given much importance. It is due to the fact that after completion of the course, a cadet may have to work under testing conditions in a ship. Let us take a look at important medical requirements that candidates have to satisfy.

Eyesight requirement is 6/6. The candidate should not suffer from night blindness and color blindness. The candidate should also be physically fit to take on seafaring roles!
A fantastic SHIP MANEUVERING SIMULATOR is there which gives the view from the Navigating Bridge of the ship and can give views of different ports and can give simulated rough sea conditions. This helps to train the Navigating Cadets get an actual hands on experience of the ship.

- The institute has a technical library, stocked with books, journals, videos, and periodicals.
- The workshop has a test rig, diesel engine and working models of ship machinery and components.
- Boat activity is carried out in the campus.
- Cadets must wear uniforms throughout their period of training.
- Ship-in Campus and Free Fall Davit available at running condition for practical training.
- Residence in the hostel is compulsory and separate hostel available for boys and girls.
- Cadets must wear uniforms throughout their period of training.
Career Prospects of Nautical Science Graduates

The Bachelor in Nautical Science degree enables the graduates to become Navigating Officers on-board on merchant ships plying worldwide. Joining as a Deck Cadet after graduation, one needs to complete the training process. The career graph then take the cadets through various shipboard experiences and training courses, for finally rising to the coveted level of Captain (Master) of a merchant ship, based on their performance in relevant examinations conducted by the Directorate General of Shipping.

Prospects after becoming a Captain.

• Marine arbitrators to settle disputes between two parties.
• Ship / cargo broker in India or abroad.
• Faculty in various Colleges in India, Gulf countries, UK, Singapore, Australia, Canada.
• Cargo Planner for container liners.
• Compass adjuster in various Indian ports.
• P & I correspondents for carrying out investigation of damage/accidents to ships, cargo.
• Can carry on further studies in Indian Maritime University, Chennai or World Maritime University, Malmo, Sweden and do research.
• Can get jobs in IMB and MSC of the International Maritime Organization, London (which is under the UNO).
• Pilots in various ports of India, Australia, Singapore, UAE, Qatar, Bahrain, Saudi Arabia, West Africa.
• MMD surveyors in various ports of India.
• Draught surveyors in various companies in India and abroad.
• Marine Superintendents of various shipping companies.
• Safety and quality inspectors of various shipping companies.
• Auditors of companies and classification societies.
• Surveyors in Classification Societies all over the world.
• Marine lawyers as advisors to judges or fight cases on their own.

The higher position that a navigating officer can aspire for is to become the Master of the ship or Captain who is in charge of the ship and is fully responsible for it. Many Indian graduates are now placed on board ships owned and managed by various shipping companies including Elegant Marine Services, Wallem Ship Management, Mitsui O.S.K. Lines, MSC Ship Management, United Ocean Ship Management, Gulf Energy Maritime Services (GEM), Wilhelmsen Ship Management, MMS Maritime (MMSI), Apeejay Shipping, Univan Ship Management, Searland Management Service, and Herald Maritime Service, etc.

The salary of a fresh graduate in nautical science is roughly rupees ₹40,000 – ₹80,000 a month. Those joining international companies receive much higher pay packages. Then with promotion in each stage the salary and other facilities will increase substantially. A Captain can earn around US$ 8000 – 12,000 per month which is tax free.
# Alumni of NITMAS / TNU: (Partial List)

Since the pass out of 1st batch of Marine Engineering students from NITMAS / TNU more than 800 students have been placed at various National and International ships and are sailing all over the world. Some of our students have already become the Chief Engineer also. Following are the few examples of our students from different batches those have been placed at various companies across the Globe:

<table>
<thead>
<tr>
<th>Name of the Students</th>
<th>Name of the Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andre Justin Gomes</td>
<td>GEM</td>
</tr>
<tr>
<td>Neeraj Gupta</td>
<td>GEM</td>
</tr>
<tr>
<td>Kumari Nini</td>
<td>DEEJAY Marine</td>
</tr>
<tr>
<td>Prashant Kumar</td>
<td>United Ocean</td>
</tr>
<tr>
<td>Manish Dubey</td>
<td>United Ocean</td>
</tr>
<tr>
<td>Sanjib Kr. Singh</td>
<td>Apeejay Shipping</td>
</tr>
<tr>
<td>Rudra Mukherjee</td>
<td>Apeejay Shipping Ltd</td>
</tr>
<tr>
<td>Ravi Gupta</td>
<td>Apeejay Shipping Ltd</td>
</tr>
<tr>
<td>Sarvottam Pandit</td>
<td>Apeejay Shipping Ltd</td>
</tr>
<tr>
<td>Ishan Nawaz Khan</td>
<td>Bibby Ship Management</td>
</tr>
<tr>
<td>Sayan Sanyal</td>
<td>ABC Ship Management</td>
</tr>
<tr>
<td>Shashank Shekhar</td>
<td>MSC</td>
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<tr>
<td>Kumar Rajan</td>
<td>Wallem</td>
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<tr>
<td>Sonu Kumar</td>
<td>Wallem</td>
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<tr>
<td>Sourav Kumar</td>
<td>Cambell Shipping</td>
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<tr>
<td>Sourav Mitra</td>
<td>Great Offshore</td>
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<tr>
<td>Subrata Dutta</td>
<td>Scorpio</td>
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<tr>
<td>Ajitabh</td>
<td>Fleet Management</td>
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<tr>
<td>Dipak Dave</td>
<td>Wallem Ship Management Pvt Ltd.</td>
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<tr>
<td>Dipwaman Sapui</td>
<td>Wallem Ship Management Pvt Ltd.</td>
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<tr>
<td>Iman Kalyan Dasgupta</td>
<td>Mitsui O.S.K Lines Pvt Ltd.</td>
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<tr>
<td>Ankit Jaiswal</td>
<td>Mitsui O.S.K Lines Pvt Ltd.</td>
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<tr>
<td>Abhishek Kumar</td>
<td>Mitsui O.S.K Lines Pvt Ltd.</td>
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<tr>
<td>Sudipta Hazra</td>
<td>Mitsui O.S.K Lines Pvt Ltd.</td>
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<tr>
<td>Binit Kr. Singh</td>
<td>Herald Maritime Services Pvt Ltd.</td>
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<tr>
<td>Jishi Kumar</td>
<td>Herald Maritime Services Pvt Ltd.</td>
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<tr>
<td>Md. Furkan</td>
<td>Apeejay Shipping Ltd</td>
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<tr>
<td>Sovanmoy Mitra</td>
<td>Apeejay Shipping Ltd</td>
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<tr>
<td>Sumit Paul</td>
<td>Gulf Marine</td>
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<tr>
<td>Dipankar Biswas</td>
<td>Gulf Marine</td>
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<tr>
<td>Palash Biswas</td>
<td>Searland Management Services</td>
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<td>Najim Mondal</td>
<td>Searland Management Services</td>
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<td>Saumava Guha</td>
<td>MTM Ship Management</td>
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<tr>
<td>Bhupendra Kumar</td>
<td>Dockendale Ship Management</td>
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<td>Arunava Raha</td>
<td>Tag Offshore</td>
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<tr>
<td>Rahul Kr. Shaw</td>
<td>Tag Offshore</td>
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<tr>
<td>Nilay Bhardwaj</td>
<td>MOL</td>
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<tr>
<td>Navpreet Singh</td>
<td>MOL</td>
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<tr>
<td>Vishal Kumar</td>
<td>Mercator</td>
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<tr>
<td>Shibadyuti Howlader</td>
<td>Anglo Eastern</td>
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<tr>
<td>Gautam Kumar</td>
<td>SVS Marine</td>
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<tr>
<td>Shhek Sarlad</td>
<td>SVS Marine</td>
</tr>
<tr>
<td>Pankaj Paul</td>
<td>Marketor Lines</td>
</tr>
</tbody>
</table>
Testimonials of Marine Engineering / Nautical Science Students

Anurag Tamret
Marine Engineering, 2005
I am currently working as 4th Engineer in Wilhensin Ship Management. ITME provided the platform on which we could grow and carve niche in this competitive world. We had very good professors & faculty members under whom we thrived & became competent.

Aniruddh Mishra
Marine Engineering, 2008
I am on ship of Mediterranean Shipping Company, whose offshore H.O is in GENEVA, SWITZERLAND. MSC is 2nd world largest shipping company. NITMAS has played a major role in my life. My faculties helped me to identify various manifested qualities within me.

Abhishek Kumar Pandey
Marine Engineering, 2007
I am currently working with Mediterranean shipping company SA, MSC 8th engineer. Studying in NITMAS has been a great experience.

Narsing Kumar Jha
Marine Engineering, 2005
I have pursued my Ph.D. from IISC, Bangalore. Now, I am moving ahead in life as, Research Associate, Department of Applied Mathematics and Theoretical Physics at University of Cambridge, UK. NITMAS has laid the foundation for shaping my career & personality.

Sabyasachi Mukherjee
Marine Engineering, 2002
I am a class 1 COC holder, NITMAS has paved my path to success with dedicated professors, well-built infrastructure facilities, experiential learning and friends with whom I am still in touch.

Pratik Ricardo Gomes
Marine Engineering, 2018
The university offers the best infrastructure in Eastern India and is possibly the best Institute teaching the course of Marine Engineering. The School of Maritime Studies offers excellent, modern and state-of-the art Training methods for MRE and BNS cadets under strict disciplinary norms. Extracurricular activities are highlighted through Club Marine.

Suman Kuri
Marine Engineering, 2018
I am privileged to be a part of the School of Maritime Studies under one of the best mentors we could possibly have. The training is rigorous, tough and discipline oriented, that will help us to become excellent Marine Engineers. We learn a lot practically at our Ship-On Campus, and we are eagerly looking forward to the beginning of our Free-Fall Lifeboat Project.

Nilay Bharadwaj
Bachelor of Nautical Science, 2019
The University offers the Bachelor of Nautical Sciences course which comes with excellent infrastructure that helps us a great deal with our practical training. Side by side, we have excellent and experienced Faculty who are Master Mariners and Chief Engineers and this helps us to develop practical knowledge.
Some activity photographs in campus
Legend - Building

A. Utility & Services
1. Main Gate/Securityroom
1a. ATM
6. Panel Room
16. Central Store
19. Electrical Room

B. Administrative
2. Administrative Block

C. Institutional
3. Scholastic Building-I
4. Scholastic Building-III
5. Scholastic Building-II
7. Workshop
8. Ship Building
9. BNS Scholastic Building

D. Residential
10. Boys Hostel-II
11. Girls Hostel-III
12. Boys Hostel-IV
13. Boys Hostel-VI
15. Staff Quarter
17. Canteen Block
22. Director's Residence
23. Basketball Court
24. Badminton Court
25. Football Ground

E. Recreational
20. Multipurpose Hall
21. Swimming Pool