

AmbujaNeotia

THE NEOTIA UNIVERSITY

ज्ञानम् आत्म प्रदीपाय

Approved Under Sec.2(f) of UGC Act 1956

www.tnu.in



B.Tech Marine Engineering (MRE)

(Leads to be the Chief Engineer of a ship)



B.Sc. Nautical Science (BNS)

(Leads to be the Captain of a ship)



P.G Diploma in Marine Engineering (PGDME)



Diploma in Nautical Science (DNS)



Orientation Course for Catering Personnel (OCCP)



School of Maritime Studies



TNU Student

Industry Partner for Internship & Placement



Approval & Recognition

Courses are Approved by DG Shipping, Govt. of India



B.Sc. Nautical Science

(Leads to be the Captain of a ship)

Eligibility Criteria

- 12th standard pass with Physics, Chemistry & Mathematics with at least 60% marks. 50% in English in Class-10 or Class-12 final examination. Clearing Medical Test as per D.G Shipping, GOI.
- A valid passport is required during admission.
- Maximum age limit - 25 Years.
- IMU-CET Rank holder
- Eye sight should be 6/6 without glass. No Color blindness.

Fees Structure (Rs.) (Including hostel charges)

Fee Per Semester	One Time Fee	1st Semester Fee	Total Course Fee
B.Sc. Nautical Science (BNS) (3 years)			
1,96,667	1,02,000	2,98,667	12,82,002

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 icing on the cake if he/she happens to be on a cruise ship of 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 Navigation and watch keeping of the vessels. You are required to be knowledge & able to apply a variety of navigational techniques, utilizing different tools like ECDIS, Radar, GPS & other technologies in addition to celestial navigation.

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 the all the passengers, Cargo and Ship's business. They have to study Navigation, Naval Architecture, Voyage Planning, Meteorology, and many more interesting subjects.

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 Opt. for higher studies in Indian Maritime University (Chennai) and World Maritime University, Malmö (Sweden) & 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.
- Govt. Service cum DDG Tech under Ministry of Shipping
- 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.
- MAINE, USA Maritime College and Various Universities in UK.

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 Nautical graduates from our University are now placed onboard ships owned & managed by various shipping companies, including Mitsui O.S.K. Lines, Synergy Maritime Pvt. Ltd., Confidence Shipping Pvt. Ltd., Pan Bulk Marine Services, Asmi Ships Pvt. Ltd., Marinezone Shipping Service Pvt. Ltd., KSM Navigation Pvt. Ltd., United Ocean Ship Management, MMS Maritime (MMSI), Apeejay Shipping, Searland Management Service, and Herald Maritime Service, etc.

TNU also offered



Diploma in Nautical Science (DNS) (1 year)

Eligibility Criteria:

- 12th standard pass, or equivalent examination with physics, chemistry, Mathematics (pcM) and English as separate subjects with a pcM average of not less than 60% and 50% in English either in 10th or 12th.
- Need to be qualified in IMU- CET examination.
- Age not more than 20 years.
- Medical fitness as per DGS norms .



Orientation Course for Catering Personnel (OCCP) (12 days) (Excluding mandatory Five STCW basic courses)

Eligibility Criteria:

- Academic standards: 10th standard pass from a recognized Board. Minimum 40% aggregate and 40% marks in English in 10th standard or 12th standard.
- Degree/ Diploma/ Certificate in hospitality & hotel administration / hotel management & catering technology, Hospitality & tourism of minimum 6 months duration duly recognized by State Board, UGC approved universities, National council for hotel management & catering technology.
- Age between 18 and 28 years.
- Medical fitness as MS Medical Examination Rules 2000.



B.Tech Marine Engineering

(Leads to be the Chief Engineer of a ship)

Eligibility Criteria

- IMU CET Rank holder
- Eye sight 6/9 with glass. No Color blindness
- Distance vision unaided 0.5
- (6/12) in each eye
- A valid passport is required during admission

Lateral Entry Criteria:

3 years Diploma Engg. Course in ME / MRE / EE / EEE / AUE / DE / ECE / ETE / Electronics / Instrumentation + 50% in English at Class X/XII + Valid Passport + Age 18-25yrs + Candidates must be Medically Fit including Eye Sight and Hearing (Medical Fitness Certificate from doctor empanelled by the D.G. Shipping, Govt. of India)

Fees Structure (Rs.) (Including hostel charges)

Fee Per Semester	One Time Fee	1st Semester Fee	Total Course Fee
B.Tech Marine Engineering (MRE) (4 years)			
1,80,000	1,02,000	2,82,000	15,42,000
B.Tech Marine Engineering (MRE) (Lateral) (3 years)			
1,96,667	1,02,000	2,98,667	12,82,002

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 XIIth 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**.

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 Synergy Maritime Pvt. Ltd., Mitsui Osk Lines, Confidence Shipping Pvt. Ltd., Asmi Ship Pvt. Ltd., KSM Navigation Pvt. Ltd., Marinezone Shipping Service Pvt. Ltd. for training, internship and placement of TNU students.



P.G Diploma in Marine Engineering (PGDME) (1 year)

Eligibility Criteria:

- Category (A) - A full time BE / B. Tech in Engineering streams e.g. Mechanical and Electronics, Mechanical and Automobile etc. However, Mechanical and Automobile etc. should be first indicating that mechanical and the second subject is the elective. Or
- Category (B) - An Naval Architecture streams e.g. Naval Architecture and Ocean. Engineering, Naval Architecture and Shipbuilding etc. However, the word., Naval Architecture should be first indicating that Naval Architecture is the core and the second one is elective. Or
- Category (C) - BE /8. Tech in Marine Engineering

- Category (D) - BE /8. Tech in Mechanical Engineering
- The above BE/ B. Tech degree or any other higher degree such as 5 year integrated M E / M.Tech degree must have been obtained from AICTE approved institute or the IITs' or from university Engineering colleges.
- Minimum marks of 50% in final year and with minimum 50% marks in English language at 10th or 12th or in Degree Exam.
- Age not more than 28 years.
- Medical fitness as per the DGS norms.
- All candidates must possess a valid passport.
- Graduates have various career opportunities in the maritime industry, both onshore and offshore.

Fees Structure (Rs.) (Including hostel charges)

Fee Per Semester	One Time Fee	1st Semester Fee	Total Course Fee
P.G Diploma in Marine Engineering (1 year)			
2,70,000	91,000	3,61,000	6,31,000
Orientation Course for Catering Personne (12 days)			
35,000	5,000	40,000	40,000

Fee Per Semester	One Time Fee	1st Semester Fee	Total Course Fee
Diploma in Nautical Science (1 year)			
2,55,000	91,000	3,46,000	6,01,000

Scholarships & Financial Aid

At TNU, we offer numerous merit-based as well as need-based scholarships (25% to 100% on Tuition Fees) to ensure that no student is left behind. There is no limit to the number of scholarships granted by the University and if a student is eligible as per the given criteria then he or she will get the "Guaranteed Scholarship":

- **CHANCELLOR SCHOLARSHIP**
- **SPORTS SCHOLARSHIP**
- **CULTURAL SCHOLARSHIP**
- **SARVODAYA SCHOLARSHIP** (in the memory of Late Suresh Kumar Neotia) (Family Income < 2.5 Lakhs / annum)
- **MERE APNE SCHOLARSHIP** (For AmbujaNeotia Group employees in the memory of Late Vinod Kumar Neotia)
- **SAHODARYA SCHOLARSHIP** (Siblings of all TNU students - present or passed out)
- **GRAMOTTHAN SCHOLARSHIP** (Students from Gram Panchayat area of South 24 Parganas)
- **SPECIAL HILL STUDENTS SCHOLARSHIP** (Resident of GTA Area (W.B), North-East States, Andaman and Nicobar Islands, Nepal & Bhutan)

West Bengal Govt. Student Credit Card is accepted at TNU

Infrastructure at Campus



Laboratories



Mechanical Lab



Hydraulic Lab



Heat Lab



Control Lab



Boiler Lab



Computer Lab



Fire Fighting Lab



Electronics Lab



Electrical Lab



Simulation Lab



Seamanship Lab

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.

Some activity photographs Maritime Studies at our campus



Garden Reach Ship Yard Visit



Simulator Lab -BNS



Guard of Honour



Welding Practical Class

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