

# COLLEGE OF SHIP TECHNOLOGY

The only institution in India to offer a comprehensive SBR course approved by a University



**MARINERS EDUCATIONAL TRUST**

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An Initiative of MARINERS CLUB THRISSUR Members

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# COLLEGE OF SHIP TECHNOLOGY

Mariners Educational Trust is established with the aim of uplifting all section of the society, especially in the field of Marine Education by a collective of Mariners. Realising the phenomenal potential of employment in the marine field and lack of availability of skilled and qualified personnel globally, the trust decided to conduct College of Ship Technology, to impart world class training in Ship Building and Repair at affordable expenses.

This college has been running BSc. Ship Building and repair course affiliated with Indian Maritime University since 2010. College also has conducted Ship Production & Repair courses approved by DNV Norway, Ship Wright course, and various other certification courses in specialised fields of Ship Building and Repair. All students passed out from here are placed well in shipping industry.

## SCOPE

The major problem faced by shipbuilding industry in India is the "Delayed Delivery" of the ship with "low quality" compared to leading ship building nations. Both problems are directly linked with availability of trained manpower. This has been mentioned in the report prepared in 2013 by Dept of Scientific and Industrial Research, Ministry of Science and Technology, GOI. Major ship building Countries like China, South Korea, Japan, Germany etc has shortages of skilled man power. The vital part is creation of Multi skilled Technicians in various aspects of Ship Production and Repair. They have vast opportunities globally.

Govt. of India through its "Sagarmala Project" has high ambition in Indian Ship building and Port facility up gradation. GOI's Make in India & Skilling India will lead this industry to new heights of success. Modernisation of Industry will make high demand for skilled man power.

Presently College of Ship Technology is the only one institution in our country which conducts these specific courses to meet the huge demand of the industry. It is the only institution which has most modern equipments for practical training, large work shop facility and tie up with several shipyards for Shipyard training.

## COURSE CURRICULUM

The course is practical oriented with specialization in Ship design, Production and Repairs. Curriculum also have courses in Engineering Graphics, Mechanics, Materials, Machinery, Marine Electrical & Electronics, Industrial Management, CAD, Ship drawing, Ship construction, Machinery installation and Seamanship. Course is of six semesters. 50% of the course is for practical skill development. Six weeks training at Shipyard.

## EMPLOYMENT POTENTIAL

The course curriculum covers industry requirements for employment in Shipyards and Marine related industries such as Oil & Gas, Offshore, Ports & Harbours, Classification societies, equipment manufacturers & service, Merchant Navy etc in India and abroad. Middle East, Europe and Far East countries do not employ Technicians without a government approved University Degree. In light of above, this program will provide huge employment opportunity to the young generation. Their work criteria changes according to the type and domain of the company they are working with. As the industrial sector has drastically risen in pace and technology the need for more technically trained professionals has increased exponentially.

## CAREER GROWTH PROSPECTUS

Successful candidates can start their career at Managerial level in shipyards and various companies, subsequently elating to highest levels in any organization. They can also go for higher studies and specialization programs like MBA, MSc. and Post Graduate Diplomas in specialized streams. They also have opportunity in Merchant Navy.

## ELIGIBILITY

10+2 / 12th equivalent with PCM -50% and minimum of 50% marks in English 10th/12th examination. Common Entrance Test by IMU.

# 3 Year programme in B.Sc Ship Building & Repair

## Under INDIAN MARITIME UNIVERSITY



### 1. Objective

The programme is designed to educate and train the students in Shipping Technology with a view to perform multi functions in shipping Industry.

### 2. Programme Structure

The programme will have six semesters. The programme is designed as a combination of Lecture, Practical's at workshops, Ship visit and attachment at a shipyard. The semesters will be conducted by having three semesters theory (lectures) based and the remaining three semesters with a major bias towards practical's.

### 3. Entry Requirements

Candidate will have to satisfy the entry requirement of a pass in plus2 examination (10+2 or equivalent with 50 % in PCM & English 50%) and CET conducted by IMU.

### 4. Intake Strength

The total intake strength is to be 40 per year in the beginning of the academic year.

### 5. Duration

The programme is of three years of six semesters. A student is expected to complete the programme in 3 years period and those could not do so, can complete it within 5 years (not more than 10 semesters).

### 6. Credit System

The University follows credit system and one hour of theory per week and two hours of practical per week is given one credit each for a semester. The total number of credit is 144 and is equally divided among the six semesters.

### 7. Attendance

The students are required to have 75% attendance in each semester as requirement to appear for the respective university semester exams. However the shortage in attendance can be condoned by VC for valid reasons.

### 8. Examination

At the end of each semester, a university examination will be conducted. The examination will cover all the subjects covered during the semester. The maximum marks for each subject is 100 and is composed as below:

Sessional- 30 Marks University Exam - 70 Marks

The students are required to get 50% in each of the above to get a pass in all the subject. A student is considered to have completed a semester if he/she obtains pass mark in all the subjects of the semester.

### 9. Award of Degree

A student is eligible for award of degree only if he/she successfully completed the programme within the stipulated period and obtain pass in all the subjects in the manner prescribed.

## 10. Gradation

The Degree will be awarded with the following grade

Ranges of Marks (Average of all Subjects)	Grade
90-100	Ex
89-89	A
70-79	B
60-69	C
50-59	D
Lessthan50	Fail

## 3 Year programme in B.Sc Ship Building & Repair Under INDIAN MARITIME UNIVERSITY

SEMESTER- I (Theory)	SEMESTER-II (Theory & Practical)
English&Ethics	Mathematics II
Mathematics-I	Computer Science
AppliedScience	Marine Materials
EngineeringGraphics	Workshop Practice-1 Fitting
Engineering Solid and Fluid Mechanics	WorkshopPractice-2 Welding
WorkshopTechnology	WorkshopPractice-3 Machining
SEMESTER- III (Theory)	SEMESTER-IV (Theory & Practical)
Introduction to Ship building	Industrial Management
Marine Machinery I	Marine Machinery II
Electrical & Electronics	Marine Electrical & Electronics
Machine Drawing	Ship Mechanics II
Marine Structures	Ship Production and Repair
Ship Mechanics I	Basic ship drawing
	CAD
SEMESTER-V (Theory & Practical)	SEMESTER-VI (Practical)
Seamanship	Hull Fabrication
ShipHull-Construction	Main Machinery Installation
Advanced Ship Drawing	Aux. Machinery Installation
Shipyard Attachment	Outfitting