



# INDIAN MARITIME UNIVERSITY

(A Central University under the Ministry of Shipping)

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## Academic Brochure 2014-15

For

Undergraduate & Postgraduate Programmes

*"Since I became Chairman of the Joint Chiefs of Staff, I have come to appreciate first hand why our Merchant Marine has long been called our nation's fourth arm of defence. . . .We are a maritime nation. We must be able to project power across the seas. This means that not only do we need a strong Navy but a strong maritime industry as well."*

- U.S General Colin Powell.

## **Vice Chancellor's Message**



Would you like a challenging and rewarding career in the Merchant Navy as Navigating Officer or Marine Engineer? Are you interested in Ship Building, Naval Architecture or Dredging and Harbour Engineering? Do you want to specialise in Port and Shipping Management, International Transportation and Logistics or Maritime Laws?

If your answer to any of the above questions is 'Yes', then the Indian Maritime University (IMU) is the right destination for you.

The IMU, a teaching and affiliating university under the Ministry of Shipping, Government of India, came into being in November 2008 through an Act of the Parliament. It has All-India jurisdiction and is the only university in the country dedicated exclusively to the Maritime sector. The IMU is committed to providing quality maritime education, training and research that are responsive to Industry needs.

I have great pleasure in releasing the IMU's *Academic Brochure for 2014-15* for the benefit of aspiring candidates. It deals with the various UG and PG programmes offered by the IMU and the Computer-based Common Entrance Tests (CETs) for admissions to these programmes.

**K. Ashok Vardhan Shetty,  
Vice Chancellor**

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## 1. **Introduction**

The Indian Maritime University (IMU) was established on 14<sup>th</sup> November 2008 as a teaching and affiliating university under the Ministry of Shipping, Government of India, with Chennai as headquarters. It was set up to promote maritime studies, training, research and extension with focus on emerging areas like oceanography, maritime history, maritime laws, maritime security, search and rescue, transportation of dangerous cargo, environmental studies and other related fields, and to achieve excellence in these areas.

There were 6 renowned legacy teaching-cum-research institutes under the Ministry of Shipping, and these were subsumed under the Indian Maritime University in November 2008. The 3 institutes in Mumbai, namely, the *Training Ship Chanakya*, the *Lal Bahadur Shastri College of Advanced Maritime Studies & Research*, and the *Marine Engineering Research Institute* became the Mumbai campus of the Indian Maritime University. The 2 institutes in Kolkata, namely, the *Marine Engineering Research Institute* and the *Indian Institute of Port Management* became the Kolkata campus of the University. The *National Ship Design and Research Centre* in Visakhapatnam and the *National Maritime Academy* in Chennai became the Visakhapatnam and Chennai campuses respectively of the University. Post-November 2008, 3 new Campuses were set up - in Kochi in 2009, Kandla in 2011 and Karaikal in 2014. The University also has 36 Affiliated Institutes.

## 2. **Programmes**

The following programmes are offered by the Indian Maritime University:

### **Undergraduate programmes**

1. B.Tech (Marine Engineering)
2. B.Tech (Naval Architecture & Ocean Engineering)
3. B.Sc (Ship Building & Repair)
4. B.Sc (Maritime Science)
5. B.Sc (Nautical Science)
6. Diploma in Nautical Science leading to B.Sc. (Nautical Science)

### **Postgraduate programmes**

1. MBA (Port and Shipping Management)
2. MBA (International Transportation and Logistics Management)
3. M.Tech (Naval Architecture and Ocean Engineering)
4. M.Tech (Dredging and Harbour Engineering)
5. LLM (Maritime Laws)

### 3. **Common Entrance Tests for Admissions**

All admissions to the various UG and PG programmes of the IMU and its Affiliated Institutes will be through All-India **Common Entrance Tests** (CETs) conducted every year, usually in the month of June.

There will be a CET common to all UG programmes.

There will be a CET common to the 2 MBA programmes; another CET common to the 2 M.Tech programmes; and yet another CET for the LLM (Maritime Laws) programme.

The results of the CETs are valid for the particular Academic Year only.

**Application Fee** is **Rs.1000** for General candidates and **Rs.700** for Scheduled Caste/Scheduled Tribe candidates.

The **Syllabus** for CET for UG programmes will be Physics, Mathematics, Chemistry, English, General Knowledge and Aptitude at Plus 2 level (CBSE, ISE and State Boards).

The Syllabi for the CETs for PG programmes will be as follows:

- For the 2 MBAs - English, General Knowledge, Aptitude, Financial Accounting, Economics, Maritime Affairs, Mathematics at UG level.
- For the 2 M.Techs - English, General Knowledge, Aptitude, Mathematics and Engineering.
- For LLM (Maritime Laws) - English, General Knowledge, Aptitude and General Laws.

The questions will be of **multiple choice type**.

Candidates who are shortlisted based on CET scores will be called for **Counselling** at designated IMU Campus(es) and will involve verification of original mark sheets and certificates, physical fitness clearance, and allotment of seats in the IMU Campuses or Affiliated Institutes.

**N.B** Admissions to Diploma in Nautical Science leading to B.Sc. (Nautical Science) programme in **Affiliated Institutes** are open only to '**sponsored candidates**', i.e. candidates sponsored by Ship Owning or Managing Companies who qualify in IMU's CET for UG programmes.

#### 4. **Important Announcement: Computer-based CETs from 2014 onwards**

The Indian Maritime University has decided to switch over to Computer-based CETs on the pattern of IIT-JEE from 2014 onwards.

For this purpose, the IMU has selected a Service Provider who will provide **End-to-End Services** for the successful conduct of the Computer-based CET 2014, except for the setting of question papers which will be done by the University itself.

The End-to-End Services that the Service Provider will provide are:

- **Online Registration** of Applicants with facility to upload photographs and scanned signatures and to download and print filled-in application in standard formats. For Online Registration, Applicants should visit the website of the Indian Maritime University at <http://www.imu.edu.in> and click on the CET 2014 hyperlink.
- Secure Payment Gateway for making **Online Payment** of CET Application fees through Net Banking, Credit Card or Debit Card. **Offline (bank challan-based) Payment** is also possible but online payment is desirable as it is faster and less bother.
- Arranging Test Venues at designated cities with sufficient number of computers, relevant software and necessary personnel to administer the CET smoothly without any hitch.
- Facility for Applicants to take at least 3 Web-based **Mock Tests** of a nature similar to IMU's CETs so that they can get familiar with the Computer-based mode of testing.
- Facility for Applicants to download their **Hall Tickets/Admit Cards** with the name of the Test Venue indicated.
- **Automated e-mails/SMS** to every registered Applicant on successful registration of Application, uploading of Hall Ticket, publication of results, etc.
- Conducting the CET at the designated Test Venues.
- Evaluation of answers and publication of CET results within 3 days.

This is a major change from the previous years' CETs and Applicants are requested to note this change and prepare accordingly.

**Applicants are also requested to periodically visit the IMU's website <http://www.imu.edu.in> to keep track of new announcements and changes, if any.** This is very important.

The IMU shall not be responsible for any mistakes committed by an Applicant owing to his negligence in this aspect.

#### **5. Date and Centres of IMU's Computer-based CETs 2014**

The Computer-based CETs for IMU's UG and PG programmes are scheduled to be held on **Saturday 14<sup>th</sup> June 2014 Afternoon** between **2 pm and 5 pm** in a **single shift**.

They will be held simultaneously in the following 34 cities across India:

Agra	Guwahati	Patna
Ahmedabad	Hubli	Port Blair
Allahabad	Hyderabad	Pune
Bangalore	Jabalpur	Raipur
Bhopal	Jaipur	Ranchi
Bhubaneswar	Jodhpur	Shimla
Chandigarh	Kolkata	Siliguri
Chennai	Kota	Srinagar
Cochin	Lucknow	Trivandrum
Coimbatore	Meerut	Visakhapatnam
Dehradun	Mumbai	
Delhi	Nagpur	

The Applicants can give 3 preferences for the cities where they wish to take the CET while registering online.

While every effort will be made to accommodate an Applicant within his 3 preferred cities, **the IMU reserves the right to divert Applicants to the nearest cities** if sufficient number of candidates are not forthcoming in certain cities and also if there are too many candidates for a particular city.

If there is a large number of Applicants for certain cities, the IMU/Service Provider may arrange multiple Test Venues in such cities.

The name and address of the Test Venue will be indicated on the Hall Ticket/Admit Card and Applicants are requested to be present at the Test Venue at least 30 minutes before the time of commencement of the CETs.

## 6. Important Dates

Last date for Online Registration	<b>20<sup>th</sup> May 2014</b>
Date of Computer-Based CETs	<b>14<sup>th</sup> June 2014, 2pm – 5pm</b>
Date of Publication of Results	<b>18<sup>th</sup> June 2014</b>
Date(s) of Counselling for all UG & PG Programmes	<b>14,15,16,17 &amp; 18<sup>th</sup> July 2014</b> (These are tentative dates and are liable for modification with prior notice on IMU's website).
Date of Commencement of Programmes	<b>11<sup>th</sup> August 2014</b>

## 7. Brief Instructions for Online Registration

N.B. *This is only a broad overview. Candidates must read this Application Brochure fully and also read the detailed instructions in the IMU's/Service Provider's/State Bank Collect's websites before filling up the online registration form.*

1. Please keep a digital copy of your passport size photograph and a digital copy of your signature ready in a pen drive or copy them on to the desktop of the computer in which you propose to do the online registration.
2. Please visit IMU's website at <http://www.imu.edu.in> and click on the CET 2014 hyperlink. It will redirect you to the Online Registration page of the website of the Service Provider.
3. Please fill up all the columns in the application form carefully and then click on the '**Submit**' button which will generate a **unique APPLICATION NUMBER** for you. Please remember to furnish your cell phone number and Email address correctly as you will get periodical intimations about CET 2014 on them.
4. Next, please click on the hyperlink to **STATE BANK COLLECT – A Multi-Modal Payment Portal**. You will be redirected to the relevant page on that website for making online or offline payment of the CET Application fee. Please enter your unique Application number on this page and other required details. 'State Bank Collect' enables you to **pay online** through **Net Banking** or **Credit Card** or **Debit Card** and also **pay offline**.
5. Online Payment is immediate and the registration process can be completed in one go. It should be the convenient and preferred mode of payment and candidates are encouraged to use it. Even if a candidate doesn't have Net Banking facility or Credit Card or Debit Card, he can request his parents,

relatives or friends who have such facilities to make online payment *on his behalf* through Net Banking or Credit Card or Debit Card. The candidate can also make use of Internet kiosks with online payment facility to pay the CET Application fee online.

6. After completing the online payment, a **unique Reference number/Journal number** will be generated. Exit from the State Bank Collect web portal and come back to the saved Online Registration web page of the Service Provider.
7. Please enter the unique Reference number/Journal number and other details such as the mode of payment, date of payment, amount paid, etc. This is to establish that you have paid the necessary CET Application fee.
8. After you click on the 'Submit' button, your application will be duly registered online and you will get a SMS-cum-Email intimation regarding the same.
9. If you must make **offline payment**, steps 1 to 4 are the same as above. On the State Bank Collect web portal, you will be able to download a challan form. Save the page and make physical payment of cash in the nearest SBI bank branch toward the CET Application fee, get your challan receipt and the unique Reference number/Journal number. Steps 6 to 8 above will apply thereafter.
10. If the online registration process is not done correctly or if the Application fee is not paid, then the Applicant will not get a confirmatory SMS or Email. The online registration process is normally foolproof and onus of any non-registration would normally be on the candidate only.
11. All correspondence with IMU regarding CET 2014 shall be made via Email only at [cet2014@imu.co.in](mailto:cet2014@imu.co.in)

## 8. Appendix - I (A)

### **Form of certificate to be produced by Scheduled Caste and Scheduled Tribe candidates who apply for admission to IMU on the counselling day.**

1. This is to certify that Shri/ Shrimati/ Kumari\*

\_\_\_\_\_ of  
son/daughter\* of \_\_\_\_\_ of  
Village/Town\* \_\_\_\_\_  
District/Division\* \_\_\_\_\_ of State/Union  
Territory\* \_\_\_\_\_ belongs to  
the \_\_\_\_\_ Scheduled Caste / Scheduled Tribe\* under:-

\* The Constitution (Scheduled Castes) Order, 1950

\* The Constitution (Scheduled Tribes) Order, 1950

**\* The Constitution (Scheduled Castes) (Union Territories) Order, 1951**

\* The Constitution (Scheduled Tribes) (Union Territories) Order, 1951 [As amended by the Scheduled Castes and Scheduled Tribes Lists (Modification Order) 1956, the Bombay Reorganisation Act, 1960, the Punjab Reorganisation Act, 1966, the State of Himachal Pradesh Act, 1970, the North Eastern Areas (Reorganisation) Act, 1971, the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 1976 and the Scheduled Castes and Scheduled Tribes Orders (Amendment) Act, 2002]

\* The Constitution (Jammu and Kashmir) Scheduled Castes Order, 1956;

\* The Constitution (Andaman and Nicobar Islands) Scheduled Tribes Order, 1959, as amended by the Scheduled Castes and Scheduled Tribes Order (Amendment) Act, 1976;

\* The Constitution (Dadara and Nagar Haveli) Scheduled Castes Order, 1962;

\* The Constitution (Dadara and Nagar Haveli) Scheduled Tribes Order, 1962;

\* The Constitution (Pondicherry) Scheduled Castes Order, 1964;

\* The Constitution (Uttar Pradesh) Scheduled Tribes Order, 1967;

\* The Constitution (Goa, Daman and Diu) Scheduled Castes Order, 1968;

\* The Constitution (Goa, Daman and Diu) Scheduled Tribes Order, 1968;

\* The Constitution (Nagaland) Scheduled Tribes Order, 1970;

\* The Constitution (Sikkim) Scheduled Castes Order, 1978;

\* The Constitution (Sikkim) Scheduled Tribes Order, 1978;

\* The Constitution (Jammu and Kashmir) Scheduled Tribes Order, 1989;

\* The Constitution (Scheduled Castes) Order (Amendment) Act, 1990;

\* The Constitution (Scheduled Tribes) Order (Amendment) Act, 1991;

\* The Constitution (Scheduled Tribes) Order (Second Amendment) Act, 1991;

2. #This certificate is issued on the basis of the Scheduled Castes / Scheduled Tribes\* Certificate issued to

Shri/Shrimati\* \_\_\_\_\_ father/mother\* of Shri /Shrimati /Kumari\*  
\_\_\_\_\_ of \_\_\_\_\_ Village/Town\*  
\_\_\_\_\_ in District/Division\* \_\_\_\_\_ of  
the State/Union Territory\* \_\_\_\_\_ who belong to the Caste / Tribe\*  
which is recognised as a Scheduled Caste / Scheduled Tribe\* in the State / Union  
Territory\*

\_\_\_\_\_ issued by the \_\_\_\_\_ dated \_\_\_\_\_.

3. Shri/ Shrimati/ Kumari \* \_\_\_\_\_ and / or\* his / her\* family ordinarily reside(s)\*\* in Village/Town\* \_\_\_\_\_ of \_\_\_\_\_ District/Division\* of the State Union Territory\* of \_\_\_\_\_.

Signature: \_\_\_\_\_

(with seal of the Office)

Name and Designation \_\_\_\_\_

Place: \_\_\_\_\_ State/Union Territory\* \_\_\_\_\_

Date: \_\_\_\_\_

**\* Please delete the word(s) which are not applicable.**

**# Applicable in the case of SC/ST Persons who have migrated from another State/UT.**

**IMPORTANT NOTES:**

The term "ordinarily reside(s)\*\*" used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.

Officers competent to issue Caste/Tribe certificates:

1. District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / Ist Class Stipendiary Magistrate / City Magistrate / Sub-Divisional Magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner.
2. Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
3. Revenue Officers not below the rank of Tahsildar.
4. Sub-divisional Officer of the area where the candidate and/ or his family normally reside(s).
5. Administrator / Secretary to Administrator / Development Officer (Lakshdweep Island).
6. Certificate issued by any other authority will be rejected.

## **9. Appendix - I (B)**

### **Form of the certificate to be produced by Other Backward Classes (non creamy layer) on the counselling day.**

This is to certify that Shri / Smt. /  
Kum\*. \_\_\_\_\_

Son /Daughter\* of Shri / Smt.\*

\_\_\_\_\_ of Village/Town\* \_\_\_\_\_ District/Division\*

\_\_\_\_\_ in the \_\_\_\_\_ State belongs  
to the \_\_\_\_\_

community which is recognized as a backward class under:

- i. Resolution No. 12011/68/93-BCC(C) dated 10/09/93 published in the Gazette of India Extraordinary Part I
- ii. Section I No. 186 dated 13/09/93.
- iii. Resolution No. 12011/9/94-BCC dated 19/10/94 published in the Gazette of India Extraordinary Part I Section
- iv. I No. 163 dated 20/10/94.
- v. Resolution No. 12011/7/95-BCC dated 24/05/95 published in the Gazette of India Extraordinary Part I Section
- vi. I No. 88 dated 25/05/95.
- vii. Resolution No. 12011/96/94-BCC dated 9/03/96.
- viii. Resolution No. 12011/44/96-BCC dated 6/12/96 published in the Gazette of India Extraordinary Part I Section
- ix. I No. 210 dated 11/12/96.
- x. Resolution No. 12011/13/97-BCC dated 03/12/97.
- xi. Resolution No. 12011/99/94-BCC dated 11/12/97.
- xii. Resolution No. 12011/68/98-BCC dated 27/10/99.
- xiii. Resolution No. 12011/88/98-BCC dated 6/12/99 published in the Gazette of India Extraordinary Part I Section
- xiv. I No. 270 dated 06/12/99.
- xv. Resolution No. 12011/36/99-BCC dated 04/04/2000 published in the Gazette of India Extraordinary Part I
- xvi. Section I No. 71 dated 04/04/2000.
- xvii. Resolution No. 12011/44/99-BCC dated 21/09/2000 published in the Gazette of India Extraordinary Part I
- xviii. Section I No. 210 dated 21/09/2000.
- xix. Resolution No. 12015/9/2000-BCC dated 06/09/2001.
- xx. Resolution No. 12011/1/2001-BCC dated 19/06/2003.
- xxi. Resolution No. 12011/4/2002-BCC dated 13/01/2004.
- xxii. Resolution No. 12011/9/2004-BCC dated 16/01/2006 published in the Gazette of India Extraordinary Part I
- xxiii. Section I No. 210 dated 16/01/2006.
- xxiv. Resolution No. 12011/14/2004-BCC dated 12/03/2007 published in the Gazette of India Extraordinary Part I
- xxv. Section I No. 67 dated 12/03/2007.
- xxvi. Resolution No. 12015/2/2007-BCC dated 18/08/2010.
- xxvii. Resolution No. 12015/13/2010-BCC dated 08/12/2011.

Shri / Smt. / Kum. \_\_\_\_\_  
and / or his family ordinarily reside(s) in the \_\_\_\_\_ District /  
Division of \_\_\_\_\_ State. This is also to certify that he/she **does not**  
**belong to the persons/sections (Creamy Layer)** mentioned in Column 3 of the  
Schedule to the Government of India, Department of Personnel & Training O.M.  
No.36012/22/93-Estt.(SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004  
Estt.(Res.) dated 09/03/2004, further modified vide OM No. 36033/3/2004-Estt. (Res.)  
dated 14/10/2008 or the latest notification of the Government of India.

Dated:

District Magistrate /Deputy Commissioner / Competent Authority

Seal

\* Please delete the word(s) which are not applicable

**NOTE:**

- i. The term 'Ordinarily resides' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.
- ii. The authorities competent to issue Caste Certificates are indicated below:
- iii. District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
- iv. Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
- v. Revenue Officer not below the rank of Tehsildar' and Sub-Divisional Officer of the area where the candidate and / or his family resides.

## **10. General Instructions for U.G Programmes**

### **1. Date of Birth (For DG, Shipping-approved courses)**

In respect of candidates belonging to General (GEN) and Other Backward Classes (OBC) categories, the date of birth should fall on or after 1<sup>st</sup> August, 1989. In respect of candidates belonging to Scheduled Castes (SC) and Scheduled Tribes (ST), the date of birth should fall on or after 1<sup>st</sup> August, 1984. Those born earlier are not eligible to appear for CET 2014.

### **2. Reservation of Seats**

15% of the total seats available to Indian Nationals are reserved for eligible candidates belonging to Scheduled Castes, 7.5% for Scheduled Tribe and 27% Seats are reserved for Other Backward Class (OBC) candidates belonging to non-creamy layer (NCL). A total of 3% of the seats is reserved for Disabled (DA) candidates wherever applicable. For applicants belonging to SC/ST, a relaxation of 5% of the aggregate will be considered for all programmes except core marine programmes viz., Diploma in Nautical Science, B.Sc (Nautical Science), B.Sc (Maritime Science) and B.Tech (Marine Engineering).

Candidates belonging to SC/ST should submit in support of the claim, a certificate, in original, in the form given in APPENDIX I (A) from the District Magistrate or any other officer who has been designated by the State Government concerned as competent authority to issue such certificate of the District in which his parents (or surviving parent or if there are no surviving parents, he/himself she/herself) ordinarily reside.

The OBC candidates (non-creamy layer) will be required to produce original OBC (NCL) certificate issued on or after January 01, 2014 by a competent authority in the prescribed format APPENDIX – I (B) at the time of application.

Those failing to do so will NOT be considered for admission to the respective reserved seats.

### **3. Physical Fitness**

Candidate for admission to marine courses (DG, Shipping-approved courses) are required to produce certificate for medical fitness by authorities authorized by Director General of Shipping. **Candidates with Disability (DA) are not eligible for admission to marine courses.** List of approved doctors for issuing the certificate is available in MS Notice 14 of 2011 ([www.dgshipping.gov.in](http://www.dgshipping.gov.in)). The candidate must be physically fit and should meet the medical requirements as

specified by DGS guidelines. Failure to meet the medical standards would disqualify a candidate for admission. In case of appeal, the same will be referred to a medical board appointed by the Indian Maritime University. The decision of such medical board shall be final. Cadets are subject to further medical examination by the respective shipping companies before joining ships.

*Note:* All Candidates who qualify for B Tech (Naval Architecture & Ocean Engineering) and B.Sc (Ship Building & Repair) degree courses will have to submit a Physical Fitness Certificate from Registered Medical Practitioner in a prescribed format that will be made available to them at an appropriate time.

#### **4. Eye sight**

For DGS-approved courses viz DNS, B.Sc (Nautical Science), B.Sc (Maritime Science) & B.Tech (Marine Engineering), there should not be any degree of squint or any morbid condition of eyes or of the eyelids that is liable to aggravate or recur, pressure of trachoma and iris complication sequela. Candidates must possess good binocular vision (Fusion faculty and full field of vision in both eyes). Movement of the eyeballs must be full in all directions and the pupils should react normally to light and accommodation.

Candidates joining DNS, B.Sc. (Nautical Science) & B.Sc. (Maritime Science) degree course are not allowed to wear glasses and their vision should be 6/6 (normal) in each eye separately. In case of candidates joining B. Tech. (Marine Engineering) degree course, glasses may be allowed but eye sight in each eye beyond plus/minus 2.5 will be rejected. Unaided vision should be 6/12 in both eyes minimum or 6/9 in the good eye and 6/12 in the other eye minimum. Defective colour vision tested by ISHIARA test chart is disqualification for B.Sc. (Nautical Science), B.Sc. (Maritime Science) & B. Tech. (Marine Engineering). In case of candidates joining T.S. Chanakya, MERI, Mumbai and MERI, Kolkata their eye sight standard should conform to the NEW ENTRY STANDARD as per Mercantile Marine Department of Government of India.

#### **5. Year of Passing Qualifying Examination(QE) for UG Courses**

To appear in Computer-based CET 2014, a candidate must have either passed the qualifying examination in the first attempt on or after 1st August, 2012 or should be appearing in it for the first time in 2014. Those who are going to appear in the qualifying examination later than 31<sup>st</sup> May 2014 are not eligible to appear in Computer-based CET 2014.

The qualifying examinations are listed below:

- i. The final examination of the 10+2 system, conducted by any recognized central/state Board, such as Central Board of Secondary Education, New Delhi; Council for the Indian School Certificate Examinations, New Delhi; etc.
- ii. Intermediate or two-year Pre-University examination conducted by a recognized Board/University.
- iii. Final examination of the two-year course of the Joint Services wing of the National Defence Academy.
- iv. General Certificate Education (GCE) examination (London/Cambridge/SriLanka) at the Advanced (A) level.
- v. High School Certificate Examination of the Cambridge University or International Baccalaureate Diploma of the International Baccalaureate Office, Geneva.
- vi. H.S.C vocational examination.
- vii. Senior Secondary School Examination conducted by the National Institute of Open Schooling with a minimum of five subjects.
- viii. A Diploma recognized by AICTE or a state board of technical education of at least 3 year duration.
- ix. Any Public School/Board/University examination in India or in any foreign country recognized as equivalent to the 10+2 system by the Association of Indian Universities (AIU).
- x. In case the relevant QE is not a public examination, the candidate must have passed at least one public (Board of Pre-University) examination at an earlier level.

## **11. General Instructions for P.G Programmes**

### **1. Reservation of Seats**

15% of the total seats available to Indian Nationals are reserved for eligible candidates belonging to Scheduled Castes, 7.5% for Scheduled Tribe and 27% Seats are reserved for Other Backward Class (OBC) candidates belonging to non-creamy layer (NCL). A total of 3% of the seats is reserved for differently abled (DA) candidates wherever applicable.

Candidates belonging to SC/ST should submit in support of the claim, a certificate, in original, in the form given in APPENDIX I (A) from the District Magistrate or any other officer who has been designated by the State Government concerned as competent authority to issue such certificate of the District in which his parents (or surviving parent or if there are no surviving parents, he/himself she/herself) ordinarily reside.

The Other Backward Class (OBC) candidates (non-creamy layer) will be required to produce original OBC (NCL) certificate issued on or after January 01, 2014 by a competent authority in the prescribed format APPENDIX – I (B) at the time of application.

Those failing to do so will NOT be considered for admission to the respective reserved seats.

### **2. Physical Fitness**

All Candidates who qualify for PG degree courses will have to submit a Physical Fitness Certificate from Registered Medical Practitioner in a prescribed format that will be made available to them at an appropriate time.

## **12. U.G PROGRAMMES IN IMU**

### **IMU SCHOOLS**

IMU currently offers various UG programmes under the following Schools:

- School of Nautical Studies
- School of Marine Engineering
- School of Naval Architecture & Ocean Engineering

### **School of Nautical Studies (SNS)**

This offers UG Programmes in Nautical Science and Maritime Science contributing to training quality seafarers. The global demand for Indian seafarers is a testimony to their tenacity and discipline.

#### **Programmes Offered (Residential)\***

<b>Programme</b>	<b>Location</b>	<b>Eligibility</b>	<b>Fees</b>
DNS course leading to B.Sc (Nautical Science)	Chennai, Mumbai, Cochin, Kandla Port, Karaikal	10+2/equivalent (PCM-60% & English- 50%)	For Male Cadets Rs 2,20,000/-per year; For Female Cadets Rs 1,40,500/- per year.
3 Year B.Sc (Nautical Science)	Chennai, Mumbai, Kolkata	10+2/equivalent (PCM-60% & English- 50%)	For Male Cadets Rs 2,20,000/-per annum; For Female Cadets Rs 1,40,500/- per annum
3 Year B.Sc (Maritime Science)	Mumbai	10+2/equivalent (PCM-60%& English- 50%)	For Male Cadets Rs 2,20,000/-per annum; For Female Cadets Rs 1,40,500/- per annum

Fees for III semester onwards is intimated by respective institutes during the programme.

The syllabi of first two courses are drawn up with a view to give broad-based marine education, with special emphasis on fundamentals of marine subjects and practical aspects of profession. 3-year polyvalent (Dual Certification) course leading to B.Sc. (Maritime Science) is a new concept of training with a view to producing a maritime officer having combined knowledge of both the branches of Nautical and Marine Engineering. The syllabus and the curriculum are drawn up with the right mix of Nautical and Engineering subjects.

All applicants to the above UG programmes i.e. Diploma in Nautical Science (DNS) course leading to B.Sc (Nautical Science), 3 Year B.Sc (Nautical Science) & 3 Year B.Sc (Maritime Science) need to clear their physical fitness test which is essential for admission as per the guidelines of the Director General of Shipping, Mumbai. The prospective candidates are required to produce a medical fitness certificate in the prescribed format issued by a Medical Officer approved by Directorate General of Shipping.

Only unmarried candidates are eligible to apply for DNS, B.Sc (Nautical Science) and B.Sc (Maritime Science).

Candidates desirous of joining these courses are advised to apply for Passport before taking admission.

## **COURSE CONTENTS**

### **DNS Leading to B.Sc(Nautical Science)**

<b>Semester – I</b>	<b>Semester – II</b>
Applied Mathematics	Navigation III : Terrestrial, Coastal and Celestial Navigation
Applied Sciences	Navigation IV : Advanced Bridge Equipment, Watchkeeping and Meteorology
Applied Electricity & Electronics	Cargo Handling, Stowage and Seamanship II
Navigation I : Terrestrial & Celestial	Ship Construction & Ship Stability
Navigation II : Bridge Equipment, WatchKeeping and Meteorology	Ship Operations
Cargo Handling, Stowage and Seamanship I	English Laboratory
English, Human Factors & Maritime History	Workshop Practices and Seamanship Laboratory
Applied Sciences Laboratory	Navigation Laboratory
Computer Laboratory	
Workshop Practices	
Seamanship Laboratory	
<b>Semester – III</b>	<b>Semester – IV</b>
Bridge Watch Keeping, Ship Safety & Security	Navigational Aids & Environmental Protection

<b>Semester – V</b>	
Ship Manoeuvring & Future issues	

### **B.Sc - Nautical Science**

<b>Semester – I</b>	<b>Semester – II</b>
English & Communication Skills Paper-I	English & Communication Skills Paper - II
Computer Hardware,software, Networking Paper - I	Computer Hardware,software, Networking Paper – II
Nautical Mathematics Paper – I	Nautical Mathematics Paper – II
Applied Mathematics Paper – I	Applied Mathematics Paper – II
Nautical Physics Paper – I	Nautical Physics Paper-III
Nautical Physics Paper – II	Nautical Physics Paper-IV
Navigation Paper – I	Navigation Paper – II
Bridge Equipment, Watchkeeping & Col.Reg. Paper – I	Bridge Equipment, Watchkeeping & Col.Reg. Paper – II
Cargo Handling & Stowage paper – I	Cargo Handling & Stowage paper - II
Naval Architecture Paper – I	Naval Architecture Paper – II
Ship Operation Technology Paper – I	Ship Operation Technology Paper – II
Marine Engineering Automation & Control Systems Paper – I	Marine Engineering Automation & Control Systems Paper – II
<b>Semester – III</b>	<b>Semester – IV</b>
Computer Science Paper- I	Computer Science Paper- II
Applied Mathematics Paper – III	Applied Mathematics Paper - V
Applied Mathematics Paper – IV	Applied Mathematics Paper - VI
Nautical Electronics –I	Nautical Electronics - III
Nautical Electronics Paper-II	Nautical Electronics Paper - IV
Navigation Paper – III	Navigation paper - IV
Bridge Equipment, Watchkeeping & Col.Reg. Paper – III	Bridge Equipment, Watchkeeping & Col.Reg. Paper – IV
Cargo Handling & Stowage paper – III	Cargo Handling & Stowage Paper - IV
Naval Architecture Paper – III	Naval Architecture Paper - IV

Ship Operation Technology Paper – III	Ship Operation Technology Paper - IV
Meteorology Paper – I	Meteorology Paper - II
Marine Engineering Automation & Control Systems Paper – III	Marine Engineering Automation & Control Systems Paper - IV

<b>Semester – V</b>	<b>Semester – VI</b>
Navigation Paper – V	Navigation Paper - VI
Bridge Equipment, Watch keeping & Col.Reg. Paper – V	Bridge Equipment, Watchkeeping & Col.Reg. Paper - VI
Cargo Handling & Stowage Paper – V	Cargo Handling & Stowage Paper - VI
Naval Architecture Paper – V	Naval Architecture Paper - VI
Ship Operation Technology Paper – V	Ship Operation Technology Paper - VI
Marine Engineering Automation & Control Systems Paper – V	Marine Engineering Automation & Control Systems Paper - VI
Meteorology Paper – III	Meteorology Paper – IV
Marine Environment Protection(Marpol,Ballast Water) Paper – I	Marine Environment Protection(Marpol, Ballast Water) Paper- II
Shipping Management Paper-I	Shipping Management Paper – II
Maritime Law – I	Maritime Law Paper – II
Bridge Equipment, Watchkeeping & Col.Reg. Paper - V (Practical)	Bridge Equipment, Watchkeeping & Col.Reg. Paper - VI (Practical)
Ship Operation Technology Paper – V (Practical)	Ship Operation Technology Paper – VI (Practical)
Marine Engineering Automation & Control Systems Paper – V (Practical)	Marine Engineering Automation & Control Systems Paper – VI (Practical)
Meteorology Paper – III (Practical)	Meteorology Paper – IV (Practical)

### **B.Sc – Maritime Science**

<b>Semester – I</b>	<b>Semester – II</b>
Basic Engineering Science	Marine Electro Technology Paper – 1
Heat & Thermodynamics	Bridge Watch Keeping & Emergencies Paper – 1

Terrestrial and Coastal Navigation Paper – I	General Engineering Knowledge Paper – 1
Computer Science & Applications	Marine Auxiliaries Paper – 1
Communication Skill & English	Motor Engineering Knowledge Paper – 1
Mathematics – I	Mathematics – II
Engineering Drawing	Ship Construction, Naval Architecture(Stability), Safety and Environmental Protection Paper - 1

<b>Semester – III</b>	<b>Semester – IV</b>
Marine Electro Technology Paper – 2	Terrestrial and Coastal Navigation Paper - 2
Meteorology	Marine Auxiliaries Paper - 2
General Engineering knowledge Paper - 2	Ship Construction, Naval Architecture (Stability), Safety and Environmental Protection Paper – 2
Basic Engineering Science , Paper – 2	Fluid Mechanics
Motor Engineering Knowledge Paper - 2	Fire Prevention & Fire Fighting
Celestial Navigation -1	Motor Engineering Knowledge Paper - 3
Bridge Watch Keeping & Emergencies Paper - 2 (Training)	Celestial Navigation -2
<b>Semester – V</b>	<b>Semester – VI</b>
Marine Electro-technology Paper – 3	Motor Engineering Knowledge Paper –5
Practical Celestial Navigation (Theory)	Marine Auxiliaries Paper - 4
Bridge Watch Keeping & Emergencies Paper - 3	Marine Instrumentation & Control Engineering
Motor Engineering Knowledge Paper – 4	Naval Architecture (Stability), Safety and Environmental Protection Paper – 4
Marine Auxiliaries Paper - 3	Cargo handling & stowage-2
Cargo handling & stowage-1	Ship Operation & Management
Marine Engineering Drawing & Design	Competency Enhancement modules including GMDSS GOC Engine Room Simulator modular course.

Ship Construction, Safety and Environmental Protection Paper – 3	Motor Engineering Knowledge Paper –5 (practical covers syllabus of V&VI semesters)
Marine Electro-technology Paper – 3 (Practical)	Marine Auxiliaries Paper - 4 (practical covers syllabus of V&VI semesters)
Practical Celestial Navigation (Practical)	Marine Instrumentation & Control Engineering (Practical)
Bridge Watch Keeping & Emergencies Paper - 3 (Practical)	Ship Construction, Naval Architecture (Stability), Safety and Environmental Protection Paper –4 (practical covers syllabus of V&VI semesters)
	External Marine Workshop Training

**Fees for Indian Nationals Joining B.Sc. (Nautical Science) / B.Sc. (Maritime Science) programmes**

<i>Course</i>	<i>Programme Fee* payable every year to IMU, Chennai</i>	<i>Fees For First Semester to be paid to Institute every year</i>	<i>Fees For Second Semester to be paid to Institute every year</i>	<i>Total Fees **</i>
<b>B.Sc. (Nautical Science) &amp; B.Sc. (Maritime Science)</b>	<b>Rs.27,500/-</b>	<b>Rs.1,00,000/-</b>	<b>Rs.92,500/-</b>	<b>For Male Cadets Rs.2,20,000/-per year</b>
		<b>Rs.60,000/- (for girl cadets)</b>	<b>Rs.53,000/- (for girl cadets)</b>	<b>For Girl Cadets Rs.1,40,500/- per year</b>

\* Programme Fee is to be collected by the Affiliated Institute/IMU Campus and passed on to IMU Hqrs at Chennai.

\*\* Total Fees include mess charges, lodging charges, cost of uniform, cost of books, course fee for four mandatory courses, tuition fees/training fees, Indian National Database of Seafarers (INDOS), Continuous Discharge Certificate (CDC).

Examination Fees as prescribed by the University are to be paid separately.

## School of Marine Engineering

This offers Undergraduate Programme in Marine Engineering and a Postgraduate Diploma Programme that serves as a platform of quality training for incumbents who aspire for a career in Marine Engineering.

### **Programmes Offered (Residential)**

<b>Programme</b>	<b>Location</b>	<b>Eligibility</b>
4 Year B.Tech (Marine Engineering)*	Chennai, Kolkata, Mumbai	10+2/equivalent (PCM-60% & English- 50%)

\* For B.Tech (**Marine Engineering**) Lateral Entry (into second year), candidates with Engineering Diploma in Marine/Mechanical/ Electrical are eligible.

### **COURSE CONTENTS**

#### **B.TECH – MARINE ENGINEERING**

<b>Semester – I</b>	<b>Semester – II</b>
Communicative English & Sociology	Seamanship, Elementary Navigation & Survival at Sea
Mathematics – I	Mathematics – II
Basic Thermodynamics	Applied Thermodynamics – I
Basic Electrical & Electronics Engineering	Strength of Materials – I
Engineering Mechanics – I	Computer Science
Workshop Technology	Engineering Mechanics – II
Geometrical Drawing	Engineering & Machine Drawing
Basic Electrical & Electronics Laboratory	Applied Mechanics Laboratory
Workshop Practicals – I	Workshop Practicals – II
Communicative English Lab	Computer Laboratory – I
Credit Marks	Credit Marks
<b>Semester – III</b>	<b>Semester – IV</b>
Computational Mathematics	Ship Structure & Construction
Electronics	Marine Boiler Steam Engineering

Applied Thermodynamics – II	Mechanics of Machines – II
Strength of Materials – II	Electrical Machines – II
Mechanics of Machines – I	Fluids Mechanics – I
Electrical Machines – I	Marine Heat Engine & Air Conditioning
Marine Engineering Drawing	Practical Marine Automation
Electronics Laboratory	Heat & Boiler Chemical Laboratory
Computer Laboratory – II	Workshop Practicals – IV
Workshop Practicals – III	Control Engineering Laboratory I
Credit Marks	Credit Marks

<b>Semester – V</b>	<b>Semester – VI</b>
Material Science	Ship Fire Prevention & Control
Management Science & Economics	Marine Internal Combustion Engine II
Marine Internal Combustion Engine – I	Marine Electrical Technology
Fluid Mechanics – II	Marine Auxiliary Machines – II
Marine Auxiliary Machines – I	Naval Architecture – II
Naval Architecture – I	Elective subject – 1
Elementary Design & Drawing	Fire Control & Life Saving Appliances Laboratory
Material Science Laboratory	Marine Power Plant Operation – II
Mechanics & Fluid Laboratory	Electrical Machines Laboratory
Marine Power Plant Operation – I	Credit Marks
Credit Marks	

<b>Semester – VII</b>	<b>Semester – VIII</b>
Ship Operation & Management	ON BOARD TRAINING & ASSESSMENT
Advanced Marine Control Engineering & Automation	Voyage Report
IMO & Maritime Conventions	Environmental Project
Advanced Marine Technology	Viva - Voce

Engine Room Management	
Elective subject – 2	
Marine Machinery & System Design	
Simulator & Control Laboratory	
Technical Paper & Project	
Credit Marks	
Carryover Credit Group from I to VI Semester	

**Elective Subjects:**

Double Hull Tanker Vessels
Advanced Marine Heat Engines(Co-Cycles)
Environmental Science & Technology
Advanced Computer Application
Advanced Hydraulics and Hydraulic Machinery
Transport & Logistic Management
Advanced Material Science & Surface Coating Engineering
Renewable Energy Sources & Applications

**Fees for Indian Nationals Joining B.Tech (Marine Engineering) programme**

<i>Course</i>	<i>Programme Fee* payable every year to IMU, Chennai</i>	<i>Fees For First Semester to be paid to Institute every year</i>	<i>Fees For Second Semester to be paid to Institute every year</i>	<i>Total Fees **</i>
<b>B. Tech (Marine Engineering)</b>	<b>Rs.25,000/-</b>	<b>Rs.1,07,500/-</b>	<b>Rs.92,500/-</b>	<b>For Male Cadets Rs.2,25,000 /- per year</b>
		<b>Rs. 65,000/- (for girl cadets)</b>	<b>Rs. 53,000/- (for girl cadets)</b>	<b>For Girl Cadets Rs.1,43,000 /- per year</b>

\* Programme Fee is to be collected by the Affiliated Institute/IMU Campus and passed on to IMU Hqrs at Chennai.

\*\* Total Fees include mess charges, lodging charges, cost of uniform, cost of books, course fee for four mandatory courses, tuition fees/training fees, Indian National Database of Seafarers (INDOS), Continuous Discharge Certificate (CDC).

Examination Fees as prescribed by the University are to be paid separately.

Expenses for "on board Training Assessment Record (TAR) Book" and "External Training", if any will be charged extra as and when required from the cadets joining Marine Engineering programmes.

All applicants to the above under graduate programme i.e. 4 Year B.Tech (Marine Engineering) need to clear their physical fitness test which is essential for admission as per DG Shipping Guidelines. The prospective candidates are required to produce a medical fitness certificate in the prescribed format issued by a Medical Officer approved by Directorate General of Shipping.

Only unmarried candidates are eligible to apply for 4 Year B.Tech (Marine Engineering).

Candidates desirous of joining this course are advised to apply for Passport before taking admission.

### **School of Naval Architecture and Ocean Engineering**

This offers UG and PG Programmes in Naval Architecture and Ocean Engineering. It also offers PG Programme in Dredging and Harbour Engineering. In addition to these, an UG Programme in Ship Building & Repair and a Doctoral Programme are also offered. The School has carved a niche for itself by offering high quality-industry perspective based programmes which are only offered by very few institutions. Those wishing to enter into the niche career of Design & Construction of ships & offshore structures, Ship Building, Ship Repair and Dredging & Harbour engineering can opt for the courses under School of Naval Architecture and Ocean Engineering (SNA).

#### **Programmes Offered (Residential)**

<b>Programme</b>	<b>Location</b>	<b>Eligibility</b>	<b>Fees</b>
3 Year B.Sc (Ship Building and Repair)	Cochin	10+2/equivalent (PCM- 50% & English- 50%)	Fees for Residential candidates Rs.2,00,000/- per year which includes Food, Uniform & Books.  Fees for Non-residential

			candidates Rs.1,40,000/- per year.
4 Year B.Tech (Naval Architecture and Ocean Engineering)*	Vishakhapatnam	10+2/equivalent (PCM - 60% & English- 50%)	Fees for all the Candidates (Male & Female) Rs.2,25,000/- per annum

\* For B.Tech (Naval Architecture & Ocean Engineering), lateral Entry (into second year), Candidates with Diploma in Shipbuilding Technology from Goa Ship Building Institute and B Sc (SB &R) from IMU Cochin campus are eligible.

### **Fees for Indian Nationals Joining B.Tech (Naval Architecture & Ocean Engineering) programme**

<i>Course</i>	<i>Programme Fee* payable every year to IMU Headquarter at Chennai</i>	<i>Fees For First Semester to be paid to Institute every year</i>	<i>Fees For Second Semester to be paid to Institute every year</i>	<i>Total Fees**</i>
<b>B.Tech. (Naval Architecture) &amp; Ocean Engineering</b>	<b>Rs.25,000/-</b>	<b>Rs.1,07,500/-</b>	<b>Rs.92,500/-</b>	<b>Fees for all the Candidates (Male &amp; Female) Rs.2,25,000/- per year</b>

\* Programme Fee is to be collected by the Affiliated Institute/IMU Campus and passed on to IMU Hqrs at Chennai.

\*\* Total Fees include mess charges, lodging charges, cost of uniform, cost of books, tuition fees/training fees, etc.

Examination Fees as prescribed by the University are to be paid separately.

### **COURSE CONTENTS**

#### **B.Sc – Ship Building and Repair**

<b>Semester – I</b>	<b>Semester – II</b>
English & Ethics	Mathematics – II
Mathematics – I	Computer Science
Applied Science	Marine Materials
Engineering Graphics	Workshop Practice -1 Fitting

Engineering Mechanics	Workshop Practice -1 Welding
Workshop Technology	Workshop Practice -1 Machining
<b>Semester – III</b>	<b>Semester – IV</b>
Introduction to Ship Building	Industrial Management
Marine Machinery – I	Marine Machinery – II
Electrical & Electronics	Marine Electrical & Electronics
Machine Drawing	Ship Mechanics II
Marine Structure	Ship Production & Repair
Ship Mechanics I	Basic Ship Drawing
<b>Semester – V</b>	<b>Semester – VI</b>
Seamanship	Hull Fabrication
Ship Hull – Construction	Main Machinery Installation
Advanced Ship Drawing	Aux. Machinery Installation
Shipyards Attachment	Outfitting

### **B.TECH – Naval Architecture & Ocean Engineering**

<b>Semester – I</b>	<b>Semester – II</b>
Mathematics-I	Mathematics -II
Chemistry	Physics
Chemistry Laboratory	Physics Laboratory
Mechanics	Programming & Data Structure
Electrical Technology	Programming & Data Structure Laboratory
Electrical Technology Laboratory	Engineering Drawings and Graphics
English for Communication	Workshop Practice
Engineering Drawings and Graphics	Fluid Dynamics
Workshop Practice	Introduction to Naval Architecture
Extra Academic Activity	Extra Academic Activity

<b>Semester – III</b>	<b>Semester – IV</b>
Mathematics-III	Machine Design
Thermodynamics	Elements of Ocean Engineering
Basic Electronics	Resistance & Propulsion
Basic Electronics Laboratory	Marine Construction & Welding
Hydrostatics & Stability	Marine Structures-I
Marine Hydrodynamics	Marine Structures computations
Extra Academic Activity	Hydrostatics & Stability Calculations
	Extra Academic Activity

<b>Semester – V</b>	<b>Semester – VI</b>
Marine Structures II	Marine Design II
Motion & Control	Marine Systems
Marine Design-I	Computer Aided Design & Production
Marine Production	Industrial Management
Marine Materials	Elective subject – 1
Hydrodynamics Laboratory	Marine System Laboratory
	CAD-& Production Laboratory

<b>Semester – VII</b>	<b>Semester – VIII</b>
Industrial Training	Project
Ship Design Project	Viva-voce
Business Fundamentals & Economics	Physical Oceanography
Vibration & Noise	Seminar
Vibration & Noise Laboratory	Elective subject – 2
Marine Power Plant	Elective subject – 3
Comprehensive Viva-voce	Automation & Control Theory

<b>Elective Subjects:</b>
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High Performance Marine Vehicle
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Port Infrastructure and management
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Fishing Vessel Technology
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Inland Water Transportation
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Submarines and Submersibles
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Environmental Management
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### **13. P.G PROGRAMMES IN IMU**

IMU currently offers various PG programmes under the following Schools:

- School of Maritime Management
- School of Maritime Law
- School of Naval Architecture & Ocean Engineering

#### **School of Maritime Management**

This offers the following 2 programmes

1. Two-year full-time MBA programme in Port & Shipping Management.
2. Two-year full-time MBA programme in International Transportation & Logistics Management.

The general objective of the MBA programme in Port and Shipping Management is to ensure that after successfully completing this programme, the young students can obtain management positions in the shipping and port industry. Further, the students are equipped to solve complicated management problems, having gained required knowledge and competency such as integrated multi-disciplinary professional knowledge of shipping and transport, at the highest academic level and skills to apply this knowledge on tactical and strategic level in the port and shipping industry.

The general objectives of the MBA programme in International Transportation and Logistics Management are to enable the students to have a detailed knowledge and understanding of both the operations and strategies of shipping as a single transport mode within the context of international multimodal logistics.

The course provides the students not only with a clear understanding of managerial subjects but also with an in-depth knowledge of the supply chain and logistics sector and the latest developments in transport management.

Some of the vital areas the students will be trained in, are to create awareness of social responsibilities in shipping and transport, related to labour conditions, safety, security and protection of the environment. Leadership qualities, analytical and social skills, besides a strong research oriented mind are also encouraged as essential components of the learning process.

## **P.G programmes for 2014-15**

NAME OF COURSE	CAMPUS	ELIGIBILITY
MBA in Port & Shipping Management (2 years)	CHENNAI, COCHIN	A bachelor's degree in any discipline with 50% marks from recognized universities (45% marks in case of SC/ST)
MBA in International Transportation & Logistics (2 years)	CHENNAI, COCHIN, KOLKATA	

This programme is spread over a period of two academic years (i.e. four semesters).

### **COURSE CONTENTS**

#### **MBA in Port & Shipping Management**

<b>Semester – I</b>	<b>Semester –II</b>
Principles and Practices of Management	Quantitative Techniques for Business
Managerial Economics	Management Accounting
Financial Accounting	Economic of Sea Transport
Port and Terminal Management	Human Resource Management
International Trade and Commerce	Legal Aspects of Shipping
Managerial Communication	Business Promotion & Entrepreneurship (soft skill)

<b>Semester – III</b>	<b>Semester – IV</b>
Internship	Logistics and Supply Chain Management
Port Economics	Port Pricing and Finance
Shipping Management	Port Marketing and Services
Research Methodology	Business Consultancy (Soft Skill)
Strategic Cost Management	Project Work
Management Information Systems	
Cultural Diversity and Business(Soft skill)	

## **MBA in International Transportation & Logistics Management**

<b>Semester – I</b>	<b>Semester –II</b>
Principles and Practices of Management	Quantitative Techniques for Business
Managerial Economics	Financial Management
Financial Accounting	Import Export documentation & Procedures
International Transport Systems	Human Resource Management
International Marketing	Logistics and Operations Management
Managerial Communication(Soft Skill)	Business Promotion & Entrepreneurship(soft skill)

<b>Semester – III</b>	<b>Semester – IV</b>
Internship	Transport Economics
Cost and Management Accounting	Multi modal Transport
International Transportation Law	Operation Research
Research Methodology	Business Consultancy ( Soft Skill)
Strategic Management	Project Work
Management Information System	
Cultural Diversity and Business ( Soft Skill)	

### **FEE DETAILS**

#### **Course Fee and Duration**

The students are instructed to remit the course fee on or before the commencement of the course for every year. They need not wait for a separate intimation/communication from the University regarding the fee. The University also encourages enrolment of candidates sponsored by their organization.

The course fee is Rs.2 lakhs per year as non-residential and should be paid only by way of Demand Draft drawn in favour of **"Indian Maritime University"**. For those who seek boarding/lodging Rs. 60,000 will be charged extra.

## **School of Maritime Law**

This offers a two-year full-time LL.M Masters of Law Programme in Chennai Campus. The general objective of LL.M (Maritime Laws) course is to educate and train lawyers in international Maritime Law, which will enable them to make valuable contributions to the vibrant, international shipping industry.

More than 90% of the world's trade takes place through the oceans. Ships are the lifeline of world commerce. The increase in International trade in the coming decades will undoubtedly lead to a growth in the shipping sector. Maritime Law is the body of Law dealing with such matters as marine commerce, navigation, shipping, sailors, transportation of passengers and goods by sea and other marine affairs. With growth in maritime commerce, the number of maritime disputes are also likely to go up. There will therefore be a rise in demand for lawyers trained in maritime law.

The Indian economy is growing at a fast pace. With the growth of shipping in India and the increase in the number of ports there will be great demand for maritime professionals. Lawyers with specialized knowledge of Maritime Law can find employment in shipping companies, ports and law firms besides various other opportunities available to them.

IMU has signed a MoU with the National Law School of Indian University (NLSIU), Bangalore. The signing of the MoU has facilitated academic cooperation between the two institutions. IMU offered a seminar course, on the Law of the Sea, to Five year integrated Undergraduate course students at NLSIU which was very well received. IMU is also looking for collaboration with foreign universities.

### **POST GRADUATE PROGRAMMES FOR 2014-15**

NAME OF COURSE	CAMPUS	ELIGIBILITY
LL.M – Maritime Laws (2 years)	CHENNAI	A bachelor's degree in Law from any recognized University approved by UGC with minimum 50% marks (45% marks in case of SC/ST)

## **COURSE CONTENTS**

### **L.L.M Maritime Law**

<b>Semester – I</b>	<b>Semester – II</b>
Law and Social Change	Judicial Process and Constitutional Interpretation
Legal Education & Research Methodology	Carriage of Goods By Sea
International Law of the Sea	Admiralty Law
Elective subject -1	
<b>Semester – III</b>	<b>Semester –IV</b>
Law of Marine Insurance	International Maritime Arbitration & Conciliation
Marine Pollution and Legal Control	Dissertation + Viva voce
Elective subject – 2	
A Synopsis - Research Design	

#### **Elective Subjects:**

Port and Terminal Management

Admiralty and Maritime Jurisdiction

Law on Maritime Safety, Security and Safety of Navigation

Shipping Business

Maritime Labour Laws

Ownership and Registration

Collision and Safety of Navigation.

## **FEE DETAILS**

### **Course Fee and Duration**

The students are instructed to remit the course fee on or before the commencement of the course for every year. They need not wait for a separate intimation/communication from the University regarding the fee. The University also encourages enrolment of candidates sponsored by their organizations.

The course fee is Rs.2 lakhs per year as non-residential and should be paid only by way of Demand Draft drawn in favour of **“Indian Maritime University”** payable at Chennai. For those who seek boarding/lodging Rs. 60,000 will be charged extra.

### **School of Naval Architecture and Ocean Engineering**

This offers two PG programmes:

- M.Tech in Naval Architecture and Ocean Engineering.
- M.Tech in Dredging and Harbour Engineering.

The School has carved a niche for itself by offering high quality- industry perspective based programmes which are only offered by very few institutions. Those wishing to enter into the niche career of Design & Construction of Ships & Offshore Structures, Ship Building, Ship Repair and Dredging & Harbour Engineering can opt for the courses under SNA.

#### **Programmes Offered (Residential)**

<b>Programme</b>	<b>Location</b>	<b>Eligibility</b>	<b>Fees*</b>
M.Tech in Naval Architecture and Ocean Engineering (2 years)	Vishakhapatnam	Graduate Engineering in Mechanical/Civil/Aeronautical /Marine/Naval Architecture or equivalent with 60% aggregate	Fees for all the Candidates (Male & Female) Rs. 2,25,000/- per year
M.Tech in Dredging and Harbour Engineering (2 years)	Vishakhapatnam	Graduate Engineering in Mechanical/Civil/Aeronautical/ Marine/ Naval Architecture or equivalent with 60% aggregate	Fees for all the Candidates (Male & Female) Rs. 2,25,000/- per year
PhD (Non-residential)#	Vishakhapatnam	Post graduate degree in Marine Engineering/Naval Architecture	Fees for all the Candidates (Male & Female) Rs 10,000/- per annum.

# PhD admissions will be announced separately.

## **COURSE CONTENTS**

### **M.TECH – Naval Architecture & Ocean Engineering**

<b>Semester – I</b>	<b>Semester – II</b>
Introduction to Ships & Offshore Structures	Ship Design
Safety, Pollution Control and Stability	Ship Production
Ship Construction and Welding	Performance of Marine Vehicles – II
Performance of Marine Vehicles – I	Elective subject – 1
Strength of Ships and Offshore Structures	Elective subject – 2
Industrial Seminar	Computer Software Laboratory
Ship Drawing	Design Project
Hydrodynamics Laboratory	
Ship Structural Analysis Project	
<b>Semester – III</b>	<b>Semester – IV</b>
Elective subject – 3	Project - II
Elective subject – 4	
Comprehensive Viva-voce	
Project –I	

<b>Elective Subjects:</b>
Hydrographic Survey
Cargo Handling in Ports
Engineering Economics
CAD CAM in Ship Design & Production
Marine Propulsion Machinery & Systems
Design of Offshore Structures
Advanced Structural Analysis
Computational Fluid Dynamics

Optimisation Methods

Maritime Management

### **M.TECH – Dredging & Harbour Engineering**

<b>Semester – I</b>	<b>Semester – II</b>
Port and Harbour Structures	Dredging Equipment and Slurry Transportation
Safety, Pollution Control and Security	Ship Handling in Ports and Harbours
Port and Coastal Hydrodynamics	Sea-bed Mechanics
Marine Materials and Corrosion	Elective subject – 1
Dredgers and Harbour Craft	Elective subject – 2
Industrial Seminar	Computer Software Laboratory
Ship Drawing	Dredging/Port Design Project
Laboratory	
Harbour Structural Analysis Project	
<b>Semester – III</b>	<b>Semester – IV</b>
Elective subject – 3	Project - II
Elective subject – 4	
Comprehensive Viva-voce	
Project –I	

#### **Elective Subjects:**

Hydrographic Survey

Cargo Handling in Ports

Engineering Economics

CAD CAM in Ship Design & Production

Marine Machinery & Systems

Design of Offshore Structures

Advanced Structural Analysis

Computational Fluid Dynamics
Optimisation Methods
Maritime Management

## **14. Campuses of the Indian Maritime University**

### **Chennai Campus**



*Aerial View of IMU, Chennai Campus*

The IMU Chennai Campus is located at short distance (about 25 KM.) from the Metropolitan City of Chennai, on the picturesque East Coast Road on the way to Mahabalipuram. The campus is credited with ISO 9001:2000 certification and accredited with Grade 1 rating by Investment Information and Credit rating agency (ICRA).

The IMU Chennai Campus offers the following courses:

1. One-year Diploma in Nautical Science course leading to B.Sc. degree.
2. Three-year B.Sc (Nautical Science).
3. Four-year B.Tech (Marine Engineering).
4. Two-year MBA (Port and Shipping Management).
5. Two-year MBA (International Transportation & Logistics Management)
6. Two-year L.L.M (Maritime Law).

Apart from the above, the Chennai Campus offers short term training programmes for merchant navy personnel, working both on deck and engine side and for officials of major ports, Maritime Boards, non-major ports and organizations connected with transport trade.



### Contact Address

Indian Maritime University Chennai Campus,  
East Coast Road,  
Uthandi, Chennai 600 119  
Tel: (044) 2453 0343 / 345, Fax: (044) 2453 0342.  
Email: [director.che@imu.co.in](mailto:director.che@imu.co.in)

### **Karaikal Campus**

Karaikal Campus, which is the most recent of all the centres of the IMU, was inaugurated on 20<sup>th</sup> January 2014 by the Hon'ble Shipping Minister, Govt of India. Karaikal is one of the major ports on the East Coast of India. The felt need for an Institution for Maritime studies was addressed and a Campus has been envisioned for this town.

At present, a one year Diploma in Nautical Science leading to B.Sc in Nautical Science course is offered at this campus.



**Karaikal Port**

### Contact Address (Admin Office)

Indian Maritime University,  
Karaikal Campus,  
East Coast Road,  
Uthandi, Chennai -119

### **Cochin Campus**

Cochin, the queen of the Arabian Sea, which enjoys one of the longest coastlines in the east-west trade route, was complimented with the establishment of an IMU campus in the year 2009. The main building for academics and administration is in the final stage of completion and is equipped with the latest facilities. The presence of Cochin port, Cochin Shipyard, Liquefied Natural Gas (LNG) Petronet Project and the International Container Transshipment Terminal (ICTT) at Vallarpadam and numerous shipping lines offer significant benefits in terms of training and exposure to the student community at IMU Cochin Campus.

IMU, Cochin offers the following academic programmes:

- MBA in Port and Shipping Management
- MBA in International Transportation and Logistics
- B.Sc in Ship Building and Repair.
- Diploma in Nautical Science leading to B.Sc. in Nautical Science.
- P.G Diploma in Marine Engineering (Admission only in January).



### Contact Address

Indian Maritime University, Cochin Campus,  
Main Campus, South End Reclamation Area (SE&A), NH-47A,  
Near Alexander Parambithara Bridge, Matsyapuri (P.O.),  
Willingdon Island,  
Cochin-682029

#### MBA Campus:

Bristow Road, Willingdon Island, Cochin - 682003  
Tel: (0484) 2989402/ 04.  
Tel: (0484) 2668641  
Email:cochincampus@imu.co.in  
Web: imu.edu.in

### **Kandla Port Campus**

This campus is 1 Km away from Kandla Port and 15Kms from Gandhidham railway station. Gandhidham is the main city for this campus. 12.5 Acres of land has been allotted by Kandla Port Trust where the IMU will be constructing a full-fledged Campus of the University.

At present, a one year Diploma in Nautical Science leading to B.Sc in Nautical Science course is offered at this campus.



**Contact Address:**

Indian Maritime University,  
Kandla Port Campus, Port Colony,  
New Kandla-370210,Kutch.Telefax: 02836 270055  
email: director.kan@imu.co.in.

**Kolkata Campus**

Kolkata Campus comprises two premier institutions- the Marine Engineering and Research Institute (MERI, Kolkata) and the Indian Institute of Port Management (IIPM, Kolkata).



*MERI, Kolkata*



MERI symbolises the birth of marine engineering training in India. It was founded in 1949 by Pandit Jawaharlal Nehru. It is the premier Maritime Training Institute not only in India but in the whole of South East Asia. The IIPM was set up by the Kolkata Port Trust in 1965 at Subhas Bhavan in the hub of port and container terminals.

The MERI Campus is based on a sprawling 33 acres land. It contains the main administrative building, 7 nos. of students' hostels, 99 residential quarters, an auditorium for 1000 persons, an Olympic size swimming pool, a multigym, a state of the Art Library with over 16000 books, 6000 BHP Marine Propulsion Engine, 350 KW Generator set, an 8-bed Infirmary, play grounds etc. There are dedicated Class Rooms, Tutorial Halls, Drawing Halls, Language Lab, Computer Centre, 10 nos. of various technical laboratories and a well-equipped Workshop to cater to the students' needs. It offers the following courses:

1. DNS leading to B Sc. Nautical Science.
2. B.Tech (Marine Engineering).

The IIPM offers MBA (International Transportation & Logistic Management).

Contact Address

Indian Maritime University  
Kolkata Campus  
Marine Engineering & Research Institute  
P – 19, Taratalla Road, Kolkata - 700 088  
Tel: (033) 2401 4673 / 76 & 78  
Fax: (033) 2401 4333.  
E-mail: [director.kol@imu.co.in](mailto:director.kol@imu.co.in)  
Website: <http://www.merical.ac.in/>

Indian Maritime University  
Indian Institute of Port Management  
Subhas Bhavan,  
2nd Floor, 40,  
Circular Garden Beach Road,  
Kolkata - 700 043.  
Tel : (033) 2439 4123/4124  
Fax : (033) 2439 7179 / 0097

## **Mumbai Campus**

IMU Mumbai Campus with Head Office at Nerul, Navi Mumbai consists of three institutes namely, the *Training Ship Chanakya*, the *Lal Bahadur Shastri College of Advanced Maritime Studies and Research* and the *Marine Engineering and Research Institute (MERI)*, Mumbai. These are premier Maritime Training Institutes not only in India but in the whole of South East Asia.



T S Chanakya is the successor of T S Rajendra and the grand old lady of Indian Shipping, T S Dufferin, where the training of Merchant Navy Officers in India started in the year 1927. T S Chanakya is a shore based Academy. Lal Bahadur Shashtri College of Advanced Maritime Studies & Research (LBS CAMSAR) is the only institute in India offering Extra Masters & Extra First Class Engineer courses, the highest programmes in the field of Nautical Science and Marine Engineering respectively. Marine Engineering & Research Institute (MERI) is the only institution in India offering B.Sc (Maritime Science) programme, giving dual certification of Nautical and Engineering stream for employment on board the Merchant Navy ships. MERI also offers a one year PG Diploma in Marine Engineering (PGDME) programme to help graduates in Mechanical Engineering and Naval Architecture become Marine Engineers.

Courses offered:

1. DNS leading to B Sc. Nautical Science.
2. B.Tech (Marine Engineering).
3. PG Diploma in Marine Engineering (Admission only in January).
4. B.Sc (Maritime Science).
5. B.Sc (Nautical Science).



**Contact Address:**

Indian Maritime University -Mumbai Campus,  
 Karave, Nerul, Navi Mumbai- 400706  
 Tel: (022) 27703876/27701935  
 Fax No.: (022) 27700398  
 E-mail: director.mum@imu.co.in  
 Website: www.imumumbai.com

*LBS College of Advanced  
 Maritime Studies &  
 Research*

Hay Bunder Road,  
 Mumbai- 400033.

Tel:  
 (022)23719932/35/36/40/4  
 1/44/46

Fax No.: (022) 23739784  
 E-mail :  
 headlbs.mum@imu.co.in  
 Website:  
 www.imumumbai.com

*T S Chanakya*

Karave, Nerul, Navi Mumbai-  
 400706

Tel: (022)  
 27703876/27701935  
 Fax No.: (022) 27700398

E-mail:  
 tschanakya.mumbaicampus  
 @imu.co.in

Website:  
 www.imumumbai.com

*Marine Engineering &  
 Research Institute*

Hay Bunder Road,  
 Mumbai- 400033.

Tel:(022)23723577  
 / 23774261,  
 23725987

Fax No: (022)  
 23753151

E-mail:  
 headmeri.mum@imu.  
 co.in

## **Visakhapatnam Campus**



Indian Maritime University - Visakhapatnam Campus was previously known as National Ship Design Research Centre (NSDRC). The IMU Visakhapatnam Campus emerges from the confluence of the centrally established Indian Maritime University and India's premier ship design and maritime research institution, the National Ship Design and Research Centre (NSDRC). IMU Visakhapatnam Campus heralds the integration of visionary academic insight with the accumulated professional expertise and knowledge base on Ship Design and Maritime Technology.

Courses offered:

1. B.Tech in Naval Architecture and Ocean Engineering.
2. M.Tech in Naval Architecture and Ocean Engineering.
3. M. Tech in Dredging and Harbour Engineering.
4. Ph.D programmes.

### **Contact Address:**

Indian Maritime University

Visakhapatnam Campus, NSDRC

PO Gandhigram, Visakhapatnam- 530 005.

Tel: (0891) 258360/64, Fax: (0891) 2577744

Email: [director.viz@imu.co.in](mailto:director.viz@imu.co.in), Website: [www.nsrdc.com](http://www.nsrdc.com)

## **General Instructions for Students of IMU Campuses**

The IMU Campuses at all major Centres are equipped with good Hostel facilities. Students will find the rooms well equipped with all necessary amenities. There are separate Hostels for Boys and Girls. It is the endeavour of the University to make this a "Home away from Home" for the students.



Mess facilities, where a variety of cuisine is available, serves the hostel inmates. Health and hygiene are given importance.



Co-curricular activities and Sports are encouraged, and most campuses are equipped with gym and a swimming pool and other outdoor equipment.

- Strict discipline is maintained in the University on similar lines to that of Naval or Army Offices/establishment. Performance of cadets is assessed not only in terms of performance in academic subjects but also in terms of participation in co-curricular and extracurricular activities and discipline maintained by them as well.
- The medium of instruction in the institute is English.

Request for leave to proceed home during a term will not be entertained except on grounds of serious illness of the cadets. Any leave granted during the term on whatever grounds, will have to be made good by serving 'back time' as additional period of training beyond four years. Unauthorized absence will be treated as breach of discipline. In case the cadet's attendance in class falls considerably short or in case he/she is found deficient, the cadets may have to undergo additional years of study.

## **15. List of Institutes Affiliated to the IMU**

Sl. No.	College Name	Courses Offered
1	Anglo Eastern Maritime Academy, Mumbai	DNS
2	Applied Research International, New Delhi	DNS
3	Aquatech Institute of Maritime Studies, New Delhi	DNS
4	B P Marine Academy, Mumbai	DNS
5	C V Raman College of Engineering, Bhubanewsar	DNS, B.Tech(ME)
6	Centre for Maritime Training, Lucknow	DNS
7	Coimbatore Marine College, Coimbatore	B.Tech(ME), B.Sc(NS)
8	Cosmopolitan Technology of Maritime, Kancheepuram	DNS
9	Dr. B R Ambedkar Institute of Technology, Port Blair	DNS
10	Euro Tech Maritime Academy, Cochin	DNS, B.Tech(ME)
11	GKM Institute of Marine Sciences and Technology, Chennai	B.Sc(NS)
12	Haldia Institute of Maritime Science, Kolkata	DNS
13	HIMT College, Kilpauk, Chennai	DNS, B.Tech(ME) B.Sc(NS)
14	Hind Institute of Nautical Science & Engineering, Noida (U.P)	B.Sc(SBR)
15	International Maritime Institute, New Delhi	DNS, B.Tech(ME)
16	Mangalore Marine College, Mangalore	B.Tech(ME)
17	Marine Officers Training Academy, Puducherry	DNS
18	Maritime Foundation, Nungambakkam, Chennai	DNS
19	Maritime Training Institute, (SCI) Mumbai	DNS
20	Maritime Training Institute, (SCI) Tuticorin	DNS
21	MMTI'S Education & Research Trust, Mumbai	DNS
22	Nandhanam Maritime Academy, Thirupathur	B.Tech
23	Park Maritime Academy, Coimbatore	B.Tech(ME)
24	Perunthalaivar Kamarajar Institute of Maritime Science and Engineering, Chidambaram	DNS
25	RVS College of Maritime Science & Engineering, Karaikal	DNS
26	Sailors Maritime Academy, Vishakhapatnam	DNS
27	Sairam Shipping Science College, Chennai	DNS
28	Samundra Institute of Maritime Studies, Mumbai	DNS, B.Tech(ME)
29	Shriram Institute of Marine Studies, New Delhi	DNS
30	Southern Academy of Maritime Studies, Chennai	DNS
31	The Great Eastern Institute of Maritime Studies, Mumbai	DNS
32	Tolani Maritime Institute, Pune	DNS
33	Training Ship Rahaman, Mumbai	DNS
34	Trident College of Maritime, Kolkata	DNS
35	Vishwakarma Maritime Institute, Pune	DNS
36	Yak Education Trust, Mumbai	DNS

**WISHING ALL ASPIRING CANDIDATES TO  
THE INDIAN MARITIME UNIVERSITY**

**THE VERY BEST!**