



February 2022

# Maritimes

The Campus News Server



# CONTENTS

*Ayush Khare's Expedition*



*Mrs. Papu Tolani's 90th Birthday*

*First Year's New Year Event*

*TransTech '21*

*TMI's Measures Against COVID 19*

*Dr. APJ Abdul Kalam's Biography in Morse Code*

*Overview of a Navigational Bridge*



It seems like it was just yesterday when we joined Maritimes and here we are with a bag full of memories and determination to face life head on. Not only was it a wonderful learning experience, but I can be certain about the fact that some of my best moments at TMI were spent working with these extremely talented team members who possess such strong work ethics and make this mini job seem like an escapade from that normal routine. The Editorial team made delays but compensated by their beautiful journaling. Photographers never missed a shot, and we the Graphics team incorporated those visual concepts into the final design that you all have been so ardently reading! Even after all the delays, mistakes and what not! All the faculty members have always been very reachable and a source of constant support. So, passing on the legacy to our very talented juniors, Cdt. Aditya Singh will be taking the lead as Graphics Head.

I want to thank you all for your perpetual support and shall wish you avid readers the best always!

Signing Off,  
Harshit Tiwari  
Graphics Head



It's well said, " The two most powerful weapons are patience and time".

My journey as Maritimes Photography was a marvelous experience. Being a beginner to this line of art, Maritimes gave me a platform to express and improve my photography skills. It also taught me to work as a team and as a leader. Thanks to all the members for their support. It's been a great journey. Passing on the command to Cdt. Shubham Malhan and Cdt. Sajal Gupta.

Signing off  
Nikhil Sonker  
Photography Head

Dear Readers,

Writing has always been a form of art and expression for me, to give the reader a perspective of my vision. When I joined this glorious magazine as an editor, I just wanted to deliver to readers and to my seniors who had expectations from me.

Although, publishing editions is a demanding work, which requires every single member to deliver, but, with the guidance of my seniors and support of my batchmates and juniors, being a member of the Maritimes family, it was always a smooth sail for me to do my work.

My entire reign as the Chief Editor was unlike any other, as the world was dealing with a pandemic, inspite of that, we were successful in publishing 2 editions.

Every single article, meeting or edition has helped me learn and gain something valuable from it.

I am extremely thankful to my seniors and the faculty members involved, for their acceptance, guidance, suggestions, corrections and constant support.

I feel emotional as after 3 long years of having this honour, I'm writing this farewell note.

I firmly believe that my juniors are capable and talented individuals who will raise the benchmark of this magazine, with Cdt. Sunami Kotian taking the onus of the Chief Editor.

I wish her all the best along with the team for new responsibilities.

We are obliged to present this landmark issue for all of our readers.

I, on the behalf of the entire team, would thank our readers, for their support, suggestions and valuable feedback and I hope that our readers will continue to do so.

To conclude, I would say that Maritimes and everything I gained from this experience will eternally have a special place in my heart.

Signing Off,  
Hitesh Ranglani  
Editor-In-Chief

# Ayush Khare's Expedition

-Aaron Raymond Netto

Have you ever wondered what it must feel like to climb a mountain? How it feels to get kissed by the strong chilly winds, while climbing those seemingly unlimited rocks?

The hard work that you have to put in to climb those rocks is rewarded in the end with a beautiful view of dove white mountains, soaring in the sky and the brightest sunshine that you have ever experienced streaming down your face. Such was the experience of Cadet Ayush Khare, who along with his mentor Mr. Anand Bansode from the organisation '360 Explorers', completed the mammoth task of conquering Mount Kilimanjaro on 5th of December, 2020.

Mountain climbers such as our prized Cdt. Ayush are known for their diligence, resourcefulness and high levels of physical and mental endurance. It is certainly not everybody's cup of tea, as Cdt. Ayush noted braving temperatures as low as -30°C, winds blasting at 260 km/hr, and extreme amounts of fatigue as he got to sleep only 4 hours a day. His team's herculean efforts were rewarded with a feeling of immense joy and an enthralling sense of patriotism as they hoisted the Indian National flag at the summit of Mount Kilimanjaro at 0930 hours on 5th December 2020. In total it took 5 days for Cadet Ayush and his team to climb up Mount Kilimanjaro and return back to the base camp.



**भारतीय टीमने आफ्रिकेतील शिखर किलीमांजारोवर फडकवला तिरंगा**



Cdt. Ayush thanked 'Wildcraft India' for sponsoring this event. His success made both national and international news, Cdt. Ayush was featured in 26 newspapers and 16 news channels across India. He had his name etched in Indian and Asian Book of Records for being the youngest Merchant Navy cadet to climb Mount Kilimanjaro. He got recommended for the prestigious Chief Minister's Award in Uttar Pradesh. He also got his much deserved recognition in the maritime con official YouTube and Facebook pag

This wasn't the first time Cdt. Ayush made headlines either, he previously got his name in the Guinness Book of World Records by becoming the first mariner to summit world's highest trekkable mountain in Leh, Mount Stok Kangri. His athleticism and endurance were on full show when he won gold in 21, 42 km marathon and 120 km cycling & bronze in 50 km cycling.

Tolani Maritime Institute is proud of its cadets such as Cdt. Ayush Khare who help pave the way for the Institute to be one of the leading maritime institutes in the country, with their awe-inspiring tasks both on and off the maritime industry.



# Mrs. Papu Tolani's 90th Birthday

~ Hitesh Ranglani

On 10th of January, 2021, Tolani Maritime Institute along with Tolani College of Commerce, celebrated the 90th Birthday of Mrs. Papu Tolani. The celebration took place on Zoom platform.

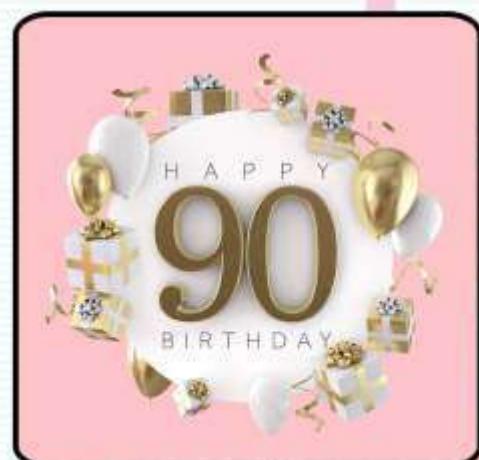
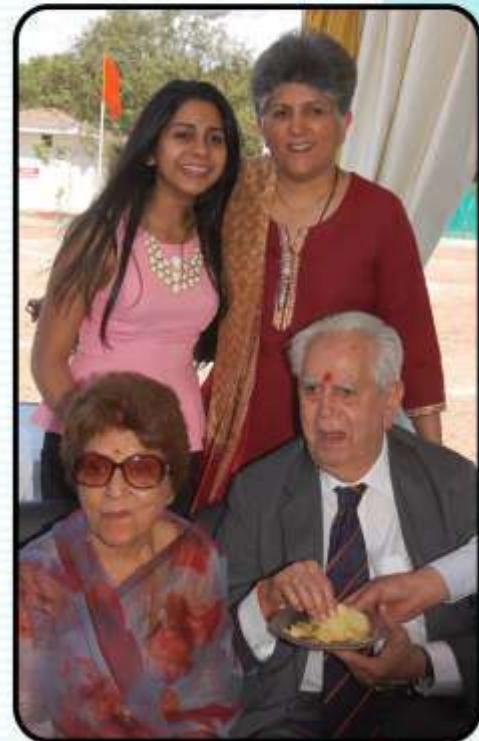
The anchoring cadets, commenced the show with energy and welcomed all of the panelists and the attendees.

The principles of both the institutions, Capt. Krishnamurthy Iyer (TMI) and Dr. Vijaya Krishna (TCC), addressed the gathering and wished Mrs. Papu Tolani on the auspicious occasion.

Mr. Kumar, from Tolani Shipping Company, was also present in the meeting, he addressed the meeting with his graceful words and sent his wishes. He expressed how beautifully and respectfully the Tolani family has kept their employees for so many years. He was overwhelmed while talking about Dr. NP Tolani and Mrs. Papu Tolani's golden relationship.

After a small break, the meeting continued with many other dignitaries wishing ma'am on her 90th Birthday. Dr. B.K. Saxena, Ex. Principal, TMI delivered a sweet note and sent his warm wishes across. Capt. Raj Razdan, Provost, TMI, along with his wife wished ma'am. Dr. Sanjeet Kanungo, VPME, TMI, addressed the gathering and sent his heartfelt wishes to ma'am. Capt. Manoj Hirkane, VPNS, TMI, added his warm wishes for ma'am. Mrs. Shalini Hemant Kumar, VP, TCC (Degree-Aided), Dr. Vasudev Iyer, VP TCC (Degree-Self Financed) and Ms Navjit Segue, VP, TCC (Junior College) also addressed the gathering and wished ma'am on this special occasion.

After all these beautiful and enchanting wishes from all of the dignitaries, the programme continued with various



members, which was filled with sixers and clean bolds. It was a nailbiting match, the highlights of the match were played and prizes were distributed to the winners.

The students of TCC took the event forward, by displaying a series of cultural performances. The classical music performance by the students of TCC was melodious and thoroughly enjoyed. The dance performance and the solo singing was no less. The Alumni members of TCC addressed the gathering and wished ma'am.

The students of TCC really put forth great performances.

The rest of the event was taken over by TMI cadets. A poster making competition was held for the celebration of Mrs. Tolani's 90th birthday, more than 100 entries were received. The posters were displayed and the prizes were also given to the students who had won the competition. Next, the cadets of TMI, while being at home had practiced and were ready to showcase wonderful cultural performances.

Cdt. Sunami Kotian presented a beautiful poem to start with. Then Cdt. Romil Talaich made everyone laugh and giggle with his Stand Up comedy.

The girl cadets of TMI had prepared a exquisite dance video, the professionalism and the performance was thoroughly enjoyed.

Bhavesh Kumar, a first year cadet, displayed a unique art, where he carved Ms. Tolani's face on a piece of chalk with a needle. The chalk art was fantastic.

Cdt. Padamjeet Singh displayed an artistic video of a sketch of Mrs. Tolani.

The musical band of TMI also performed a series of classical songs, creating a nostalgic moment for all the attendees. At the end, cdt. Hitesh Ranglani recited a self-composed poem, on the beautiful love story of Dr. NP Tolani and Mrs. Papu Tolani.

The performances showcased by the cadets of TMI displayed how much talent they posses and also how much they wanted to make this day special for Mrs. Tolani.

The 90th birthday of Mrs. Papu Tolani was truly a special one, which will be remembered forever.





# Online New Year's Party

~ By Arkajyoti Mukherjee

“But the most beautiful things in life are just not things. They're people and places, memories, and pictures. They're feelings and moments and smiles and laughter.”

Unknown

After three months of monotonous online classes and adapting to the “New Normal”, the online News Year's party was like a breath of fresh air for the first years. A program like this was like a cuckoo's call in the Hebrides Islands for the thought of stepping into college was like a dream that was yet to come true for the batch of 2020 and the New Year's party did quite the justice of instilling a new ray of hope in their hearts.

The very last day of 2020, saw the seniors of Tolani Maritime Institute put up their best performances to welcome the First Years and give them a taste of the Cultural Environment that is present in the atmosphere of the Institute. It was a warm welcome for the Juniors and something they will hold on to and cherish for years to come.

On 1st January 2021, the mic was taken up by the newest batch of the Institute. They had been burning the midnight oil to showcase their immense talents and for making sure that their performances were well up to the mark as they were more than eager to bring a curve on every teacher's as well as their senior's faces.

The event commenced with an enthusiastic welcome speech put up by the anchors; Yash Katoch, Aaron Netto, Mahima Moulya, and Ananthesh L. Shet, creating the perfect atmosphere for a mellifluous morning on the very first day of the year.



Then the flaming torch was handed over to their fellow cadets as the show was carried on by several others who put up their beautiful performances one after another. Several dance, instrumental and musical performances made the audience tap their feet to the soulful beats and flood the chatbox with words of appreciation. Cdt. Rohan Sharma and Cdt. Devansh Diwaker chimed in with a quiz that was open to all and which saw a cut-throat competition for credit points. The main highlight of the day was the welcome speech from none other than Karanvir Singh Nayyar himself; Brand Ambassador of 'Maersk' and a graduate from Tolani Maritime Institute. The speech did quite the justice of motivating the junior cadets to dream big and hustle hard.

At last, the much-awaited day came to an end. A day that strengthened the bond between the seniors, teachers, and the juniors of the college and made Tolani Maritime Institute feel like home for the newbies.

#### Participants

Yash Katoch(Host)		
Mahima(Host)		
Aaron Netto(Host)		
Ananthesh		
Devansh		
Rohan		
Akshaz Sood		
Priyanshu		
Raunak Raj		
Abhisumat		
Sumrit		
Purba Dutta		
Apoorva Shukla		
Abdullah Khan		
Ankit Kumar Sahu		
Joslin Joel		
Abhinav Roy		
Romil		
Tanvi		
Atul		

# TRANSTECH

~Sunami S. Kotian

As India grappled with the deadly 2nd wave of the COVID-19 pandemic, and as our lives literally fell into gloom, it was but an allaying experience to find ways to distract ourselves. Propitiously, the 14th edition of the annual All India Technical Seminar, TRANSTECH was held in a nascent webinar format this year. Organized by Tolani Maritime Institute in association with IMEI, Pune branch & IEIPLC from 28th-30th April, TRANSTECH, 2021 set its main theme as "Efficient Shipping on Clean Oceans".

With 8 participating institutes, the finest 12 of the total 47 full length papers presented & 5 models exhibited, TRANSTECH'21 provided an eclectic platform for participants from varied maritime institutions to display their outlooks predicated on the sub themes of : Alternative Fuels, Hull Form Optimization, Coatings & Corrosion, Zero Emission Technologies, Life Cycle Analysis of a Ship, Vessel Performance Optimization, Advancements in Sensor Technologies in Shipping, & System Integration - Automation & Digitalization on Ships.

## DAY 1:

Hosted by Cdt.Hitesh Ranglani & Cdt.Sunami Kotian, day 1's events proceeded from an auspicious Saraswati Vandana to the principal, Capt. Krishnamurthy Iyer's, the convenor, Mr. Anirudh Kumar's & the Chairman of IEIPLC, Prof. K.K. Ghosh's respective welcome addresses.

Revered personalities from associated domains invited to address the seminar benefited attendees with their experiences and knowledge. Introduced by Capt. Indranath Banerji, the Chief Guest & Key Note Speaker, Dr. Ketan Kotecha, Dir. of SIT, delivered a detailed address on "Artificial Intelligence for All", correlating its utility with the maritime industry. He also released the "Book of Proceedings for TRANSTECH 2021" & the yearly "Technical Bulletin of TMI" which publishes research papers contributed by TMI's faculty team. Following this, Dr. Sanjeet Kanungo, Vice Principal, ME, presented the Vote of Thanks.

The 1st Technical Session chaired by Dr. Sanjay Dabagaoonkar was set into motion under the 3 judges- Mr. Arvind Kumar, Mr. Anand Thakoor & Mr. Shailendra Kumar. The day's events wrapped up after a splendid presentation of 4 technical papers from TMI;IMU, Kolkata; HIMT & AEMA.



## DAY 2:

Invigorated by Day 1's smooth display of healthy competition and edifying speeches, Capt. Kevin Mascarenhas inaugurated Day 2's proceedings by introducing the Guest Speaker, Capt. Gajanan Karanjikar, pres. AIMPA. He shared his insights on the topical theme of "Blue Economy". The 2nd Technical Session was chaired by Dr. Sudhir Sindagi and after a fine series of presentations from TMI; GEIMS & IMU, Mumbai, Dr. Sindagi conclusively summarised the session.

The 3rd & final Technical Session chaired by Dr. Anjali Deshpande, saw complex topics like manoeuvrability & machine learning being presented with beautiful ease and coherency by cadets from IMU, Kolkata; MANET; HIMT & TMI.

## DAY 3:

After 2 consecutive days of insightful speeches by the dignitaries, fascinating papers presented by the enthusiastic participants, & engaging Q & A rounds hosted by the judges, the 3rd day unfurled with quite a fresh and innovative vibe. Recorded videos of models were exhibited with their makers briefing the seminar about their inspiration, the life cycle of their model and as to why their model would be good enough to be incorporated on a larger scale in a favourable future. The Key Note Speaker, Dr. Sanjay E. Talole, Scientist & group dir. of SCG at the R&DE, shared his cognizance on "Disturbance Estimation & Rejection based Control of Marine Vessels" & the Chief Guest, Dr. Gopinath Chandroth, an accredited marine accident investigator from MAIB, UK, delivered an interactive address on "Marine Accident Investigation & Prevention", a pressing issue that deserves more exposure & attention.



As tough as it is to give a physical and lingual shape to one's ideas and bring it to reality whilst having the confidence to display it on an open dais, it is important to honour these efforts and dedications with cash prizes for the winning papers & models sponsored by IMEI, Pune branch & TMI.

TRANSTECH was conceived with the manifesto of providing an estrade for perspicacious minds, who can build an avant-garde future of engineering, thereby bringing together like minded people to enable the progress of mankind. Notwithstanding the new webinar setup wherein viewing models was also a virtual task, the rigorous efforts put in by the participants & the organizing team, & the patience and cognizance of all the attendees is exactly what brought fruition to TRANSTECH's vision. With over 900 attendees on Zoom & YouTube combined, it is only reasonable to believe that the event was mutually beneficial & therefore efficacious.

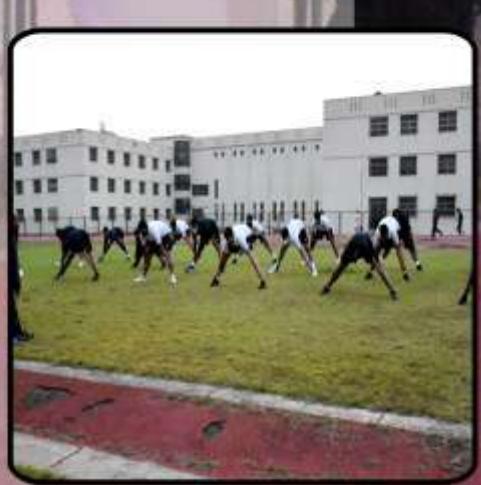
# TMI's Measures Against COVID-19

- Nikhil Shahani

Regardless of all the measures taken to inhibit the rise in cases, India reported the world's fastest growing outbreak of COVID-19 in absolute numbers according to WHO. Restrictions began to be lifted in June, and this relaxation has continued ever since being the sole reason for dramatic increase in case numbers nationally. Beneath these alarming national figures, the pattern of spread in India is shaded and complex, with marked differences between states, and between rural and urban areas.

COVID-19 may have drained energy of so many people, but honestly, when it comes to Tolani Maritime Institute, nothing could ever beat the zeal and gusto of this Institute. Maharashtra being one of the worst affected states, TMI managed to conduct online lectures through Zoom platform. The lectures were conducted 6 days a week with proper and a scheduled time-table. Moreover, when the college amended the teaching methodology, it tried to embrace this new form of virtual learning from every aspect possible. Hence, Moodle LMS was brought into force, where-in every cadet could sign in using their own credentials and have access to notes on each subject uploaded by the respective faculty.

Hope is necessary, and recognizing successes is vital, especially during a pandemic. However, looking at the current situation in India, with a too positive approach, not only clouds reality but also deteriorates vital public health initiatives. Ceasing unrealistic claims or failing to honestly report negative news creates uncertainty among the public and health-care professionals, discouraging people from taking required action or public health messages seriously. India has the expertise in medicine, public health, research, and manufacturing to lead the nation through the COVID-19 pandemic.



DNS and 2017 NS cadets. By this time, it became indispensable for the college to remain closed prohibiting the conduct of practical training and examinations. Cadets were informed ten days in advance to report at the campus. Strict norms assessed by the government were followed. Masks, face shields, sanitizers and rest of the safety equipment was made compulsory. Everyone was under a strict isolation of 14 days, in a single room allotment. No one was allowed to move out of their respective hostels until the quarantine period was completely over. Following the 14 days confinement, practical training was conducted for all the subjects consisting of 10 cadets per batch keeping in mind the concept of social-distancing. On conclusion of the entire training, proper examinations were conducted considering the rules and regulations provided by IMU. Simultaneously theory classes were being held for the remaining cadets in order to prevent any loophole put forward by this pandemic.



As the time passed, it became quite monotonous for cadets sitting at home with no work to do except the assignments and classes. At our institute, academics and extra-curricular activities are kept at par. Keeping the spirits high and maintaining even-handedness with the educational side, two back to back virtual events were conducted. On December 31st, a cultural event was conducted on Zoom under the guidance of Mr. Rahul Kale and the cultural society of TMI. It was a two day event inclusive of dance, drama and various quizzes. Of course, the in-person event has a whole lot of different feeling but this event finally brought a change into our lives, made it a bit merrier. On February 15th, Founder's Day was celebrated again on Zoom. The best part about that event was cameras went live to show us the memorial of Dr. NP Tolani. This event again included dance, poems, singing and drama. The program was a complete success.

At the same time, practical training was directed and regulated for 2018 batch of Nautical Science and Marine Engineering followed by the practical training for 2019 batch. The very new 2020 batch was also called to the institute in order to kick start with their training.

# Dr. APJ Abdul Kalam's Biography in Morse Code

~ Devansh Diwaker  
~ Sunami Kotian

All of us, at some point in our life time have been fantasised by the alluring code languages we see in spy movies, as indeed it is fascinating to see some secrets being conveyed in a language that not everyone takes on board. Such is the code language called Morse, a coded language named after Samuel Morse which is made out of just dots and dashes.

Though this code is no longer in use but Cdt. Sahil Sha K.S. of the DNS program (2020 Batch) had different plans. This boy from Ernakulam city of Kerala used this code to give the best possible tribute to The Missile Man and The People's President, Dr. APJ Abdul Kalam. Cdt. Sahil translated Dr. Kalam's autobiography "The Wings of Fire" into a morse code version. This 596-page book which took 31 days till perfection got Cdt. Sahil's name carved into the "Asia Book of Records" and the "India Book of Records". Sahil even made it to the headlines of the popular Malayalam news channel "Mediaone TV live" wherein he even gave an interview.

Cdt. Sahil alludes that it was his father who educated him about the Morse code, it was his father again who inspired him to join the Merchant Navy as a career which was a dream to him carried out by his son, but it was Sahil's magnanimity that inspired him to utilise the lockdown and give this great encomium to the great Scientific Sage.

Sahil says, "He (Dr. Kalam) is the most inspiring person for me and each and every Indian."



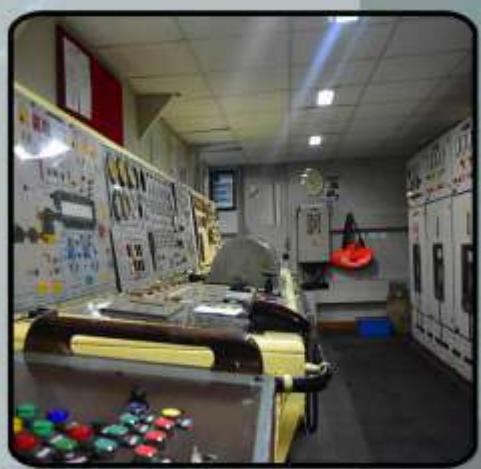
# Overview of a Navigational Bridge

-Abhijeet

-Nikhil Shahani

“Health is a state of complete harmony of the body, mind and spirit.” When you hear these lines said by B.K.S. Iyengar, the first image that comes to the mind may not be a 450 metres long ship cruising through the Pacific. If we compare the ship to a human body, the navigational bridge is the mind of the ship whereas the crew is her spirit. The perfect harmony of these three achieved with the intrinsic decision making that goes on at the bridge enables our grand shipping industry to achieve some of the world's greatest precision and expertise demanding overhauls.

The ship's Navigational bridge serves as a command-and-control station for the entire vessel including her mechanical, electronic as well as her communication functions. All equipments and systems onboard must meet the requirements of International Maritime Organization (IMO) prior their installation and throughout entire lifespan. The navigational bridge consists of several workstations; workstation includes devices, equipment and furniture of all job-related items for certain tasks. These workstations function as sub parts of the bridge and overlook some of the most critical operations like Navigating and manoeuvring (ship handling), monitoring (provides a wide angle to view to surrounding environment), docking and communications. These are some of the most crucial parameters to ensure a safe and successful voyage. Furthermore, it has stations for planning,



When in-charge of a two hundred thousand tonne ship, even the slightest bit of information cannot be overlooked and therefore to ensure the same, there are certain guidelines, without which the layout of workstations can be inconsistent, chaotic and difficult to use. To ensure that the bridge is always at its full potential, everything from the displays to the dials is designed with utmost perfection, the viewing angles are kept to ensure maximum visibility and everything is properly labelled. A perfect work environment is maintained on the bridge at all times that resonates with the crew to ensure quality of bridge watch keeping. Everything from the climate, temperature, ventilation, illumination to noise and acoustics is kept at a perfect level to ensure the very best environment for entire crew.

A ship navigates twenty-four hours a day in open deep-seas as well as through restricted waters in variable weather and dynamic sea conditions. To ensure proper conduct, the bridge consists of modern equipment to compliment with highly skilled crew manning it. Some of these equipments include depth indicator, vessel speed indicator, engine and rudder status indicators, advanced weather information systems and other crucial indicators/controls. Moreover, ships more than 10,000 GRT are fitted with at least two Automatic Radar Plotting Aid (ARPA) equipped radars and from July 2012 onwards, all vessels of 500 GRT and above are to be fitted with an ECDIS (Electronic Chart Display and Information System). In these ways the Navigation Bridge of a vessel serves as the nervous system, responsible for the entirety of the actions being performed on the ship, resulting in a



## EDITORIAL TEAM

Hitesh Ranglani  
Ashwin Menon  
Shaunak Mukhopadhyay  
Siddhant Biswas  
Sunami Kotian  
Nikhil Shahani  
Sparsh Bhushan  
Puspak Thakur  
Aaron Raymond Netto  
Abhijeet Kumar  
Arkajyoti Mukherjee  
Devansh Diwaker

## PHOTOGRAPHY

Abhaydeep Singh  
Nikhil Sonker  
Sajal Gupta  
Shubham Malhan  
Meghadri Ganapati  
Samarth Jogi

## FACULTY ADVISORS

Ms. Vanadana Shinde  
Ms. Swati Bhise  
Mr. Ganesh Ingle  
Capt. S. Lakdawala  
Mr. Rahul Kale

## GRAPHICS

Harshit Tiwari  
Aahan Rai  
Aditya Singh  
Harsh Sharma  
Shaurya Sharma

## FEEDBACK

**Do send your valuable feedback, comments and suggestions at:  
Tolani Maritime Institute, Talegaon Dabhade, Pune-410507**

**Phone: +91 2114 242016, Portal: [www.tolani.edu](http://www.tolani.edu) Email: [maritime.tmi@gmail.com](mailto:maritime.tmi@gmail.com)**