



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय
नवाबगंज, कानपुर - 208002, उ.प्र., भारत
HARCOURT BUTLER TECHNICAL UNIVERSITY
NAWABGANJ, KANPUR - 208002, U.P., INDIA
(Formerly Harcourt Butler Technological Institute, Kanpur)



The Institution of Engineers (India)

Kanpur Local Centre

In association with

Department of Computer Science & Engineering,
Harcourt Butler Technical University, Kanpur

&

All India Valuers Association

Cordially invite you to participate in the theme lecture on the occasion of

NATIONAL MARITIME DAY-2026

on

Friday, 10th April 2026 at 05:30 PM

Prof. Raghuraj Singh



Department of Computer Science & Engineering, H.B.T.U., Kanpur
has kindly consented to deliver the theme lecture

on

“Maritime India-Empowering Progress”

at

Conference Hall, The Institution of Engineers (India), Kanpur Local Centre,
HBTU East Campus, Kanpur

Er. R. K. Srivastava
Honorary Secretary, IEI, KLC

Er. Rama Kant Yadav
Convener

Er. S. S. Dash
President, AIVA

Prof. Anita Yadav
HOD, CSE, HBTU, Kanpur

PROGRAMME

- 05:30 to 05:35 PM Welcome Address by Chairman, IE(I), Kanpur Centre **Prof. Raghuraj Singh**
- 05:35 to 05:40 PM Address by HOD, CSE, HBTU, Kanpur **Prof. Anita Yadav**
- 05:40 to 05:45 PM Address by President, AIVA **Er. S. S. Dash**
- 05:45 to 05:50 PM Introduction of Guest Speaker by **Er. Rama Kant Yadav**
- 05:50 to 06:25 PM Theme Lecture by **Prof. Raghuraj Singh**
- 06:25 to 06:27 PM Felicitation of the Theme Speaker
- 06:27 to 06:30 PM Vote of thanks by Honorary Secretary, IE(I), Kanpur Centre **Er. R K Srivastava**

Computer Science and Engineering Department, HBTU Kanpur

Report on Theme Lecture

“Maritime India – Empowering Progress”

Organised by

**The Institution of Engineers (India), Kanpur Local Centre
in association with Department of CSE, HBTU Kanpur
& All India Valuers Association**

Date : 10 April 2026

1. Key Speaker:

Prof. Raghuraj Singh

Department of Computer Science & Engineering
HBTU, Kanpur

Expertise: Computer Science, Engineering Applications, Technical Education

2. Organizing Team

- The Institution of Engineers (India), Kanpur Local Centre
- Department of CSE, HBTU Kanpur
- All India Valuers Association

Key Coordinators:

- Er. R. K. Srivastava (Honorary Secretary, IEI KLC)
 - Er. Rama Kant Yadav (Convener)
 - Er. S. S. Dash (President, AIVA)
 - Prof. Anita Yadav (HOD, CSE, HBTU Kanpur)
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3. Participants

The lecture was attended by faculty members, engineering professionals, and students from HBTU Kanpur and other institutions. The event witnessed active participation and engagement from the audience.

4. Objectives of the Theme Lecture

- To highlight the significance of National Maritime Day
 - To create awareness about India's maritime sector and its role in national development
 - To discuss technological advancements in maritime infrastructure
 - To emphasize the role of engineering in strengthening maritime capabilities
 - To inspire students to explore opportunities in maritime and allied sectors
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5. Event Highlights

- The programme commenced with a welcome address by the Chairman of IE(I), Kanpur Centre
- Address by Prof. Anita Yadav, HOD, CSE, HBTU
- Address by Er. S. S. Dash, President, AIVA
- Introduction of the guest speaker by Er. Rama Kant Yadav
- An insightful theme lecture delivered by Prof. Raghuraj Singh
- Felicitation of the keynote speaker
- Vote of thanks by Er. R. K. Srivastava











6. Key Discussion Points

- Importance of maritime sector in India's economic growth
- Role of ports, shipping, and logistics in global trade
- Government initiatives for maritime development
- Integration of technology in maritime operations
- Opportunities for engineers in maritime industries
- Sustainable and eco-friendly maritime practices

7. Core Concepts Explained

7.1 National Maritime Day Significance

- Celebrated to commemorate India's maritime history and achievements
- Highlights the importance of sea trade and naval strength

7.2 Maritime Infrastructure in India

- Development of ports and coastal infrastructure
- Modernization through digital and smart technologies

7.3 Role of Technology in Maritime Sector

- Use of automation and data analytics
- Application of AI and software systems in navigation and logistics
- Importance of cybersecurity in maritime operations

7.4 Economic Impact of Maritime Industry

- Backbone of international trade
- Supports import-export activities
- Generates employment and industrial growth

7.5 Sustainable Maritime Development

- Focus on green shipping practices
 - Reducing environmental impact
 - Adoption of renewable energy in maritime systems
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8. Real-World Applications & Industry Perspective

Case Study 1: Port Management Systems

- Use of digital platforms for efficient cargo handling
- Automation improves turnaround time

Case Study 2: Shipping & Logistics Optimization

- AI-based route optimization
- Cost and fuel efficiency improvements

Case Study 3: Maritime Safety Systems

- Advanced monitoring systems for ships
- Use of sensors and real-time data

Industry Workflow Example:

1. Cargo Planning & Scheduling
 2. Port Operations Management
 3. Transportation & Logistics Coordination
 4. Monitoring & Safety Compliance
 5. Data Analysis & Optimization
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9. Learning Outcomes

After attending the lecture, participants were able to:

- Understand the importance of the maritime sector in India
- Gain insights into modern maritime technologies

- Recognize the role of engineers in maritime development
 - Learn about sustainable practices in the industry
 - Relate theoretical knowledge to real-world maritime applications
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10. Conclusion

The theme lecture on “Maritime India – Empowering Progress” provided valuable insights into the growing importance of the maritime sector in India’s development. The session effectively highlighted how engineering and technology play a crucial role in enhancing maritime infrastructure and operations. It was an informative and inspiring session for all participants.

11. Acknowledgement

The organizing bodies sincerely thank the keynote speaker, Prof. Raghuraj Singh, for delivering an enlightening lecture. Gratitude is also extended to all organizers, faculty members, and participants whose contributions made the event successful.