

Webinar on Advancements in Marine Technology- February

20th Feb 2021, Aligarh: MTS AUV ZHCET had successfully organised a webinar on “ Advancements in Marine Technology” through a google meet. Dr R Venkatesan (Chairperson of MTS Society India) and Mr Nandakumar (Secretary MTS Society India) graced this event as our Chief Guests. Prof Pervez Mustajab (Dean, Faculty of Engineering & Technology, A.M.U), Prof M.M Sufyan beg (Principal, ZHCET) and Prof. Saleem Anwar Khan (Faculty Advisor, MTS AUV ZHCET) were also part of this event.

The webinar began with a welcome note by Salma Zehra Ahsan Shamsi followed by the recitation of the Holy Quran by Mohd. Hozaifa Khan. Our guest of honour Prof. Pervez Mustajab addresses the audience and appreciates the continuous hard work of the MTS AUV ZHCET club got recognition in the form of becoming the 9th MTS Student section in India. The webinar continues with Prof M.M Sufyan Beg describing the rich legacy of Zakir Hussain college of engineering and technology.

The webinar was continued further by the introduction of our Guest speaker Dr R Venkatesan and he enlightened us by presenting a PPT on “Ocean Innovation- Biometric Learning from Nature”. He started by explaining the history of the MTS INDIA Section which was established in 2016 with 9 Student sections. He also explained the challenges faced while making underwater robots which can be overcome by the 9 principles of biomimicry. He also told when we talk about the ocean, we need to also think about sustainable development which can be done by Medical Advances, Mechanical navigation and Propulsion and Resilient materials with life chemistry.

Salma Zehra Shamsi then invited Mr Nandakumar and gave a brief introduction about his career and achievements. Mr Nanda Kumar began by greeting everyone and told us about his career in high-speed satellite communication. The topic was SHORE LIKE CARE AT SEA which intends that people out at sea should also have similar diagnostic healthcare just like people on land. Maritime labour convention (MLC) specifies certain requirements for seafarers. The scale of the problem is very huge as we have a total no. of 60000 deep-sea vessels and around 1.5 million seafarers but there are only 15 telemedical maritime assistance services, around 20000 are assisted and close to 2000 are evacuated annually. So the regulatory bodies for this are IMHA i.e International Maritime Health Association, STCW i.e Standards of training, certification and watchkeeping and ILO/MLC i.e the Maritime Labour Convention.

The webinar was ended by a thank you note given by our faculty advisor Prof Saleem Anwar Khan, thanking everyone for being a part of this and making it a successful one. The team at AUV ZHCET looks forward to organising more such events soon.

Dr R Venkatesan is presenting

Advancements in Marine Technol... X

People (54) Chat

IN CALL

- Shubham Singh (You)
- 18EEB074 Aditi Jaiswal
- 19MVB 309 Lalit Baghel
- 19mb306 Neeraj Shar...
- 19MVB310 Apoorva Pac...
- 20MEB202 Mayank Awa...
- 257 Mohd Ravish
- 259 Noor Mohammad
- 293 Gopal Awasthi

19mb306 Neeraj Sharma

Sufyan Beg

257 Mohd Ravish

Dr R Venkatesan

Salma Zehra Ahsan Sha...

Advancements in Marine Technology Webinar ^

Raise hand Turn on captions Dr R Venkatesan is presenting

Species	Speed	Length	VL
Herring (G)	Speed = 9 km/h = 1.67 m/s = 3.7 MPH	Length = 0.3 m	VL = 5.6
Pike (S)	Speed = 9 km/h = 1.67 m/s = 3.7 MPH	Length = 0.5 m	VL = 3.3
Carp (S)	Speed = 9 km/h = 1.67 m/s = 3.7 MPH	Length = 0.3 m	VL = 2.1
Dod (S)	Speed = 9 km/h = 2.22 m/s = 5 MPH	Length = 1.2 m	VL = 1.9
Mackerel (C)	Speed = 11 km/h = 3.06 m/s = 8.8 MPH	Length = 0.5 m	VL = 8.1
Salmon (S)	Speed = 45 km/h = 12.5 m/s = 28 MPH	Length = 1.0 m	VL = 12.5
Rainbow (T)	Speed = 60 km/h = 16.7 m/s = 37 MPH	Length = 0.5 m	VL = 15.6
Small Tuna (T)	Speed = 60 km/h = 16.7 m/s = 37 MPH	Length = 3.0 m	VL = 5.6
Black Tuna (T)	Speed = 60 km/h = 22.2 m/s = 50 MPH	Length = 0.5 m	VL = 7.4
Swordfish (T)	Speed = 90 km/h = 26.7 m/s = 60 MPH	Length = 4.0 m	VL = 8.7

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Problems with existing knowledge

Flow discontinuity in the fish due to mechanical links

Potential solutions to existing knowledge

Streamlined flow on the fish due to continuous body and tail

Rajiform AUV with similar shapes.

Current understanding- Robots based on current knowledge