

The Institution of Engineers (India)

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8 GOKHALE ROAD, KOLKATA – 700 020

(Lecture/Paper presentation/Seminar/Workshop/Conference/Technical/Project Demonstration/Model competition/Poster Competition/Group Discussion/Technical Quiz/Aptitude Test/Technical Visit/Film show/Display of Technical Information/Short term course)

Title /Theme: - Online webinar titled “Research aspects and Role of Engineers in Ocean Data Collection”

Date : 19.12.2021

Duration: 1 day (11.00 AM to 12.00 PM)

No. of Students and Faculties Participated: 52 participants

Photographs with caption:

(Activity reports not supported by photographs shall not be considered for award)



RAMCO INSTITUTE OF TECHNOLOGY
Approved by AICTE, New Delhi, Affiliated to Anna University,
Accredited by NAAC & An-ISO 9001:2015 Certified Institution
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Department of Mechanical Engineering
EXTRAMURAL LECTURE SERIES(ELS) - NT004

RESEARCH ASPECTS AND ROLE OF ENGINEERS IN OCEAN DATA COLLECTION

Registration Link
<https://tinyurl.com/Ocean-Data-Collection>

<https://meet.google.com/hne-wsje-ums>



Dr. R. Venkatesan,
M.Tech, PhD, DSc, Chartered Fellow, AMT's Fellow
NACE, ASHRAE, ISO, PCIMA, Engineers

Fulbright Awarded, Darmstadt, USA,
Chair, GRA-IDC UNESCO Paris,
Vice-Chair, SP-2016, INACI, Geneva
Scientist G & Head Ocean Observations,
National Institute of Ocean Technology, Chennai

COORDINATOR
Dr. S. SATHISH
ASST. PROF./MECH

CONVENOR
Dr. P. SUBBESHNATH
ASSOC. PROF./MECH

PATRON
Dr. S. RAJAKANUNAKARAN
VICE PRINCIPAL & HEAD, MECH

CHIEF PATRON
Dr. J. LAKSHMAN
PRINCIPAL

கடலை கண்காணித்தல்

முனைவர். ஆர். வெங்கடேசன்
குருத்தலைவர், பெருங்கடல் கண் காணிப்பு
அமைப்புகள்,
தேசிய கடல்சார் தொழில்நுட்ப கழகம்,
புலி அறிவியல் அமைச்சகம், சென்னை

19 December 2021

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IEI RIT-MECH	Venkatesan Dr R	IEI RIT-MECH
Karthick R	Dr Chandresh K...	THOWFEEK S
JAGADEESH H	35 others	You

11:14 AM | hne-wsje-ums

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REC Venkatesan Dr R is presenting

குறள் 496:

**கடலோடா கால்வல் நெடுந்தேர் கடலோடும்
நாவாயும் ஓடா நிலத்து**

Couplet Explanation:

**Wide chariots, with mighty wheels, will not run on the ocean;
neither will ships that the traverse ocean, move on the earth.**

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11:15 AM | hne-wsje-ums

IEI RIT-MECH Venkatesan Dr R IEI RIT-MECH
Karthick R Dr Chandresh K... THOWFEEK S
JAGADEESH H 35 others You

REC Venkatesan Dr R is presenting

Importance of Ocean / பெருங்கடலின் முக்கியத்துவம்

- Life on earth and the entire global ecosystem depends on ocean for their biodiversity and health
- பூமியிலுள்ள பல்வியிர்களின் வாழ்க்கை மற்றும் ஆரோக்கியம் கடலைப் பொறுத்தது.
- They provide essential services to humans /

the air we breath	/ நாம் சுவாசிக்கும் காற்று
the water we drink	/ நாம் அருந்தும் தண்ணீர்
the food we eat	/ நாம் உண்ணும் உணவு
the climate we live in	/ நாம் வாழும் காலநிலை

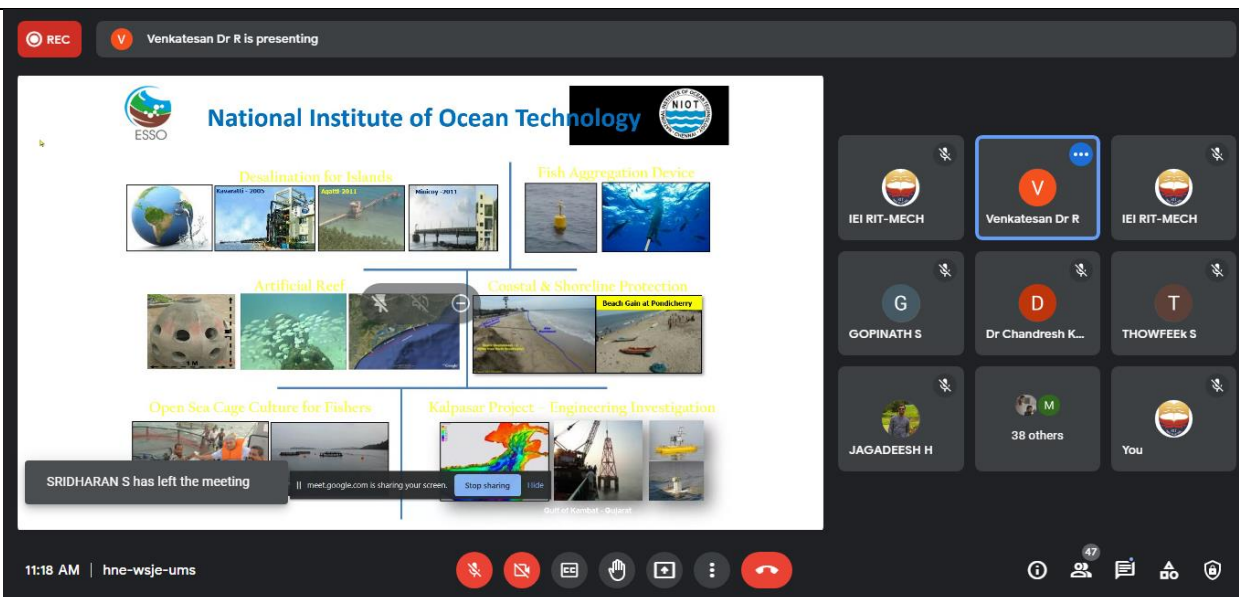
AIR காற்று
WATER தண்ணீர்
FOOD உணவு
CLIMATE காலநிலை

- Oceans and seas were healthy; Once it was thought they have the capacity and ability to absorb any level of disruption from human activities due to their expansive size
- பெருங்கடல் மற்றும் கடல்களின் ஆரோக்கியம் நன்றாக இருந்தது. அவைகளின் பறந்து விரிந்த பரப்பை கொண்டு, அவை மனிதனால் உண்டாக்கப்படும் எத்தகைய கழிவுகளையும் தன்னகத்தே உள்வாங்கிக்கொள்ளும் என்று நம்பப்பட்டது.
- Tsunami – another dimension
- சுனாமி / ஆழிப்பேரலை மற்றொரு பிரமாணம்

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11:16 AM | hne-wsje-ums

IEI RIT-MECH Venkatesan Dr R IEI RIT-MECH
Karthick R Dr Chandresh K... THOWFEEK S
JAGADEESH H 35 others You

**Details:**

Chief Guest/ Guest of Honor: Nil
Designation: Nil

Speaker 1: Dr. R. Venkatesan
Designation/Organization: Scientist G & Head Ocean Observation, National Institute of Ocean Technology, Chennai

Report

(maximum 250 words)

Department of Mechanical Engineering organized Extramural lecture series (ELS)- NT004 - Online webinar titled "Research Aspects and Role of Engineers in Ocean Data Collection" on 19.12.2021 for all the faculties and Students in various Engineering Colleges.

Mr.L.Karthikeyan, AP/Mech delivered welcome address and Dr.J.Jabinth, AP/Mech introduced the resource person of this event. He detailed about the schedule of event.

The resource person explained about the development of technologies for deep sea mining and under water vehicles. He explained the different works carried out by NIOT in underwater vehicles. He also explained about the projects related to extraction of energy from ocean. The ships used to do research along the coast. He showed the film of David Attenborough hydrothermal vent, the sources of ocean observation like satellites using microwaves, sub surface monitoring instruments. He also discussed about the transmission of data to the surface of ocean by induction principle and then to the satellite. He also discussed about the various marine meteorological sensors used, design of mooring system. At the end of the webinar, Mr. L. Karthikeyan, AP/Mech acted as a moderator for the whole event and Dr.V.Sivakumar, AP/Mech delivered vote of thanks.

Totally, there are 91 registrations are received across all major cities of our state and few are from other states also. Out of which 52 participants attended via Google Meet Platform. All the 52 Participants received their certificate after they completed all procedures.

Recording url (19.12.2021): https://drive.google.com/file/d/1Asj5wH1MZOoDNsr_nWF2gHTHQz8L-Q4v/view?usp=sharing

**Sample Certificate****Brochure**



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Date :December 19, 2021
(Sunday)
IST: 11.00 A.M to
12.00 noon



Dr.R.Venkatesan,
M.Tech, Ph.D, D.Sc, CMarTech, Fellow-MTS, Fellow-
NACE, SMIEEE, FIE, PGDML, PGDMPM
Fulbright Awardee, Dartmouth, USA,
Chair GRA-IOC UNESCO Paris,
Vice-Chair SG-DOIS WMO, Geneva
Scientist G & Head Ocean Observation,
National Institute of Ocean Technology, Chennai

COORDINATOR Dr.J.JABINTH ASST. PROF./MECH	CONVENER Dr.P.SURESHKUMAR ASSOC. PROF./MECH	PATRON Dr.S.RAJAKARUNAKARAN VICE PRINCIPAL & HEAD /MECH	CHIEF PATRON Dr.L.GANESAN PRINCIPAL
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