

AERONAUTICAL ENGINEERING

Celebrates Innovation Day (Kalam' 89)

Organises Webinar on sea plane and hovercraft by

Resource Person: Dr.K.Ramachandra

Date: 15/10/2020

Platform: Online mode

About the gathering

The program was started at 02.00 PM with the welcome speech by HOD/AE and followed by the introduction of the resource person by DrAchintya Krishna Sarkar, Prof/ Aeroanautical.All the Students of Aeronautical Engineering were present in the meeting along with the faculty members.

ACS COLLEGE OF ENGINEERING
#207, Kambipura, Mysore Road, Bangalore – 560 074.
Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi and Govt. Of Karnataka

**DEPARTMENT of
AEROSPACE and AERONAUTICAL ENGINEERING**

On the Occasion of 89th Birth Anniversary Celebration of
Dr. A.P.J Abdul Kalam
and World Student's Day

Presents Webinar on
**“Seaplane and
Hovercraft - Indian
Seacoast & Lakes”**

**You were born with wings
Don't Crawl
Learn to use them to
Fly and Fly**
- Dr.A.P.J. Abdul Kalam

Resource Person
Dr. K. Ramachandra
Outstanding Scientist
and Former Director - GTRE
DRDO, Ministry of Defence, GOI.

Event Co-Ordinator
Mr. J. Siva
Ph: 08667291504

Dr. G. Ramanan
Ph: 09965418124

Head of the Institution
Dr.M.S. Murali
Principal

Date : 15th October 2020(Thursday) Time : 2:00pm to 3:00pm
Register Here : <https://forms.gle/jVMqNfrS3f2RfCSq7>

About the speaker

Webinar on the Sea plane and Hovercraft by Dr.K.Ramachandra, Former Director of National Design and Research Foundation

- Former Director – National Design and Research Foundation
- Outstanding Scientist and Former Director
- Gas Turbine Research Establishment
- Defence Research and Development Organisation (DRDO)
- Ministry of Defence, Government of India, Bangalore

About the Webinar

The webinar was more of Aerodynamics combined with Hydrodynamics. The main title being the sea planes and hovering, we learnt different aspects relating to seaplanes and hovercraft and its applications and use in Indian seas and lakes. It was more of an interactive session, unlike one way presentation. We, students were allowed to clarify our doubts as well.



Talk Highlights

Sea Planes: Aircrafts which are capable of take-off and landing on water. The basic concept behind is hydrodynamic lift

Hovercraft: It is an amphibious craft capable of travelling overland, water, mud, ice and other surfaces. It is based on principle of Pressure Difference.

The various aspects discussed are:

- i. Galloping
- ii. Gas turbine propulsion system for seaplanes
- iii. Economic viability
- iv. Disaster management
- v. Societal Applications
- vi. Marine Applications
- vii. Amphibian Hovercraft

THE INFRASTRUCTURE OPTIONS



Ramachandra's screen

Applications of Hovercraft



OUTCOME

- Basic concept of Seaplanes and Hovercraft
- Applications of the same
- Basics of Aerodynamics and Hydrodynamics
- Transportation and connectivity
- Aerodynamics and levitation

Acknowledgment

I would like to thank our faculty members and Dr.K.Ramachandra for availing us with grasp information apart from our curriculum