

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 / EVEN SEMESTER

WEBINAR REPORT

The Department of Mechanical Engineering organized a National level webinar on “**Refrigeration and Air-conditioning**” on 07.03.2023 at **11.15 a.m. to 12.30 p.m.** Welcome address was given by **Mr. M.Vivekananthan**, Assistant Professor / Mechanical, Kings College of Engineering.

Resource person **Dr.B.Gobalakrishnan**, **Department of Mechanical Engineering**, CARE College of Engineering, Tiruchirappalli, was introduced by **Mr. R.Rajadurai**, Assistant Professor / Mechanical, Kings College of Engineering. The resource person had given the lecture on “**Refrigeration and Air-conditioning**”. In his lecture, he explained about the various concepts of Air conditioning and refrigeration systems and also explained the applications of Air conditioning and refrigeration systems.

In this webinar, about **130** participants from **7** colleges have been registered. Among these, **126** participants from various Engineering College, polytechnic college and Arts College have attended the webinar. Vote of thanks was given by **Mr. S. Desikan**, AP/Mechanical. Kings College of Engineering.

All the attended participants gave their feedback after the session and E-certificate have been sent to them through email.

Webinar Brochure



A NAAC Accredited Institution
KINGS
COLLEGE OF ENGINEERING
Recognized under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai



A National Level Webinar on



"Refrigeration and Air-conditioning"

Organized by
Department of Mechanical Engineering



Resource Person

Dr. B. GOBALAKRISHNAN , M.E., PhD,
Asst.Prof / Mechanical Engineering,
CARE College of Engineering,
Tiruchirappalli.

On 07.03.2023 @ 11.15 am

Registration Link: [Registration Link](#)

Coordinators

Mr.M.Vivekananthan, AP/Mech,
Mr.R.Rajadurai, AP/Mech,



HoD/Mech

Dr.T.Pushparaj

Principal

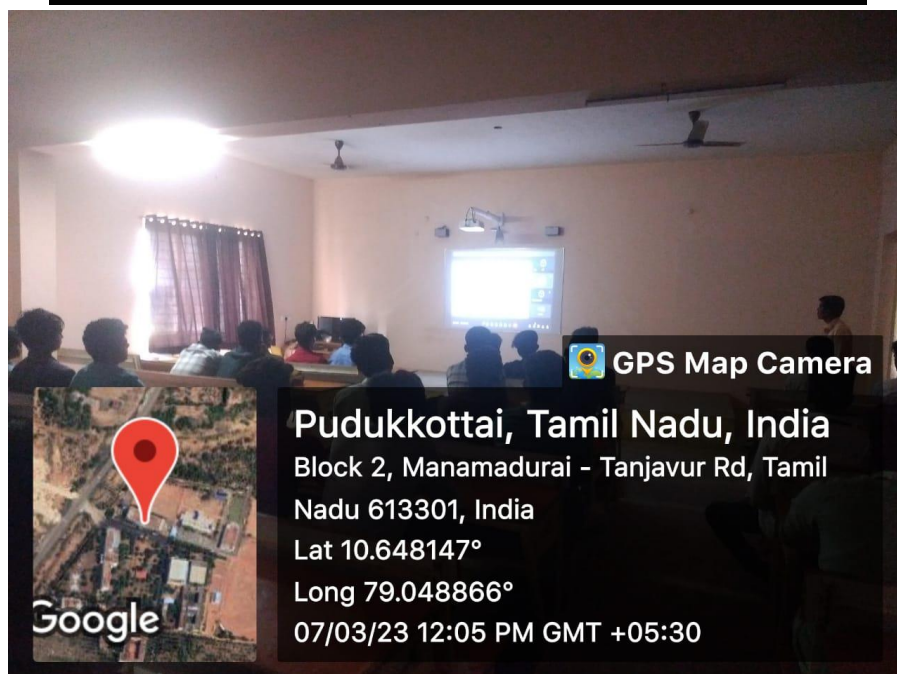
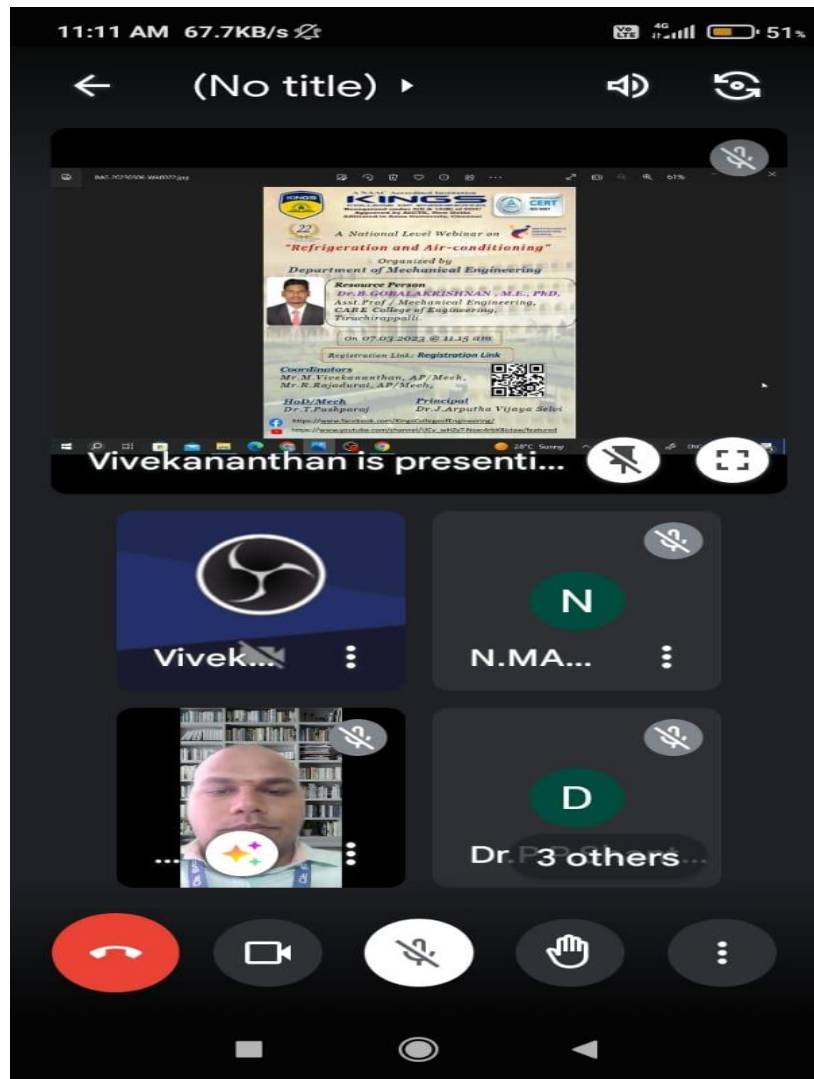
Dr.J.Arputha Vijaya Selvi

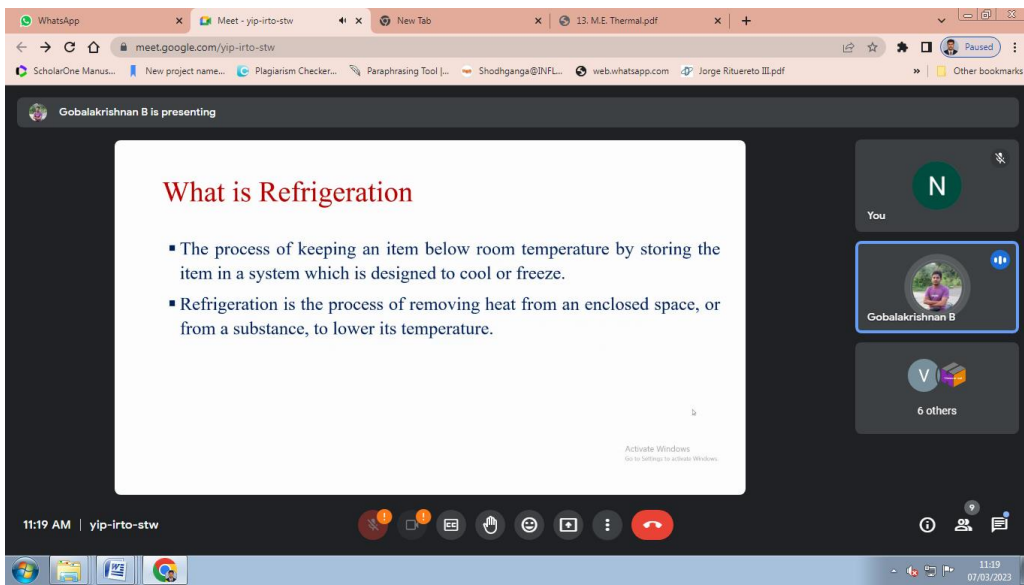
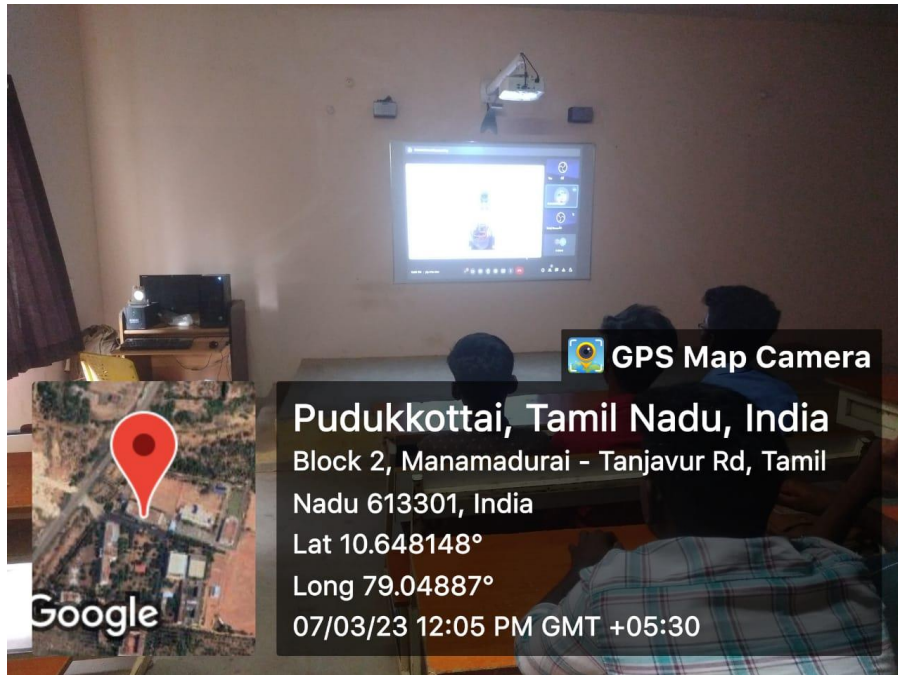


<https://www.facebook.com/KingsCollegeofEngineering/>

https://www.youtube.com/channel/UCv_wHZyT-Nxxc4rbXBiciaw/featured

Glimpses of the Event





Gobalakrishnan B is presenting

What is Refrigeration

- The process of keeping an item below room temperature by storing the item in a system which is designed to cool or freeze.
- Refrigeration is the process of removing heat from an enclosed space, or from a substance, to lower its temperature.

11:21 AM | yip-irto-stw

In-call messages

Messages can only be seen by people in the call and are deleted when the call ends

Vivekananthan M 11:15AM
good morning sir
your voice is audible sir

Vivekananthan M 11:17AM
yes sir

Send a message to everyone

Gobalakrishnan B is presenting

Principle of Refrigeration

- Since the heat has to be transferred from a low temperature body to a high temperature body some external work has to be done according to the second law of thermodynamics.
- This external work is done by means of Compressor.

Hot body

Migration System

Cold Body

Work input

11:33 AM | yip-irto-stw

IMG-20230306-W...jpg

Objective

The main objectives for organizing this Webinar are,

- ❖ Learning the fundamental principles and different methods of refrigeration and air conditioning.
- ❖ Comparative study of different types of refrigerants with respect to properties, applications and environmental issues.
- ❖ Study the various equipment-operating principles, operating and safety controls employed in refrigeration air conditioning systems.

Outcomes

Students who pass the course will be able to;

- ❖ Present the properties, applications and environmental issues of different refrigerants.
- ❖ Illustrate the fundamental principles and applications of refrigeration and air conditioning system.
- ❖ Able to operate the refrigeration and air conditioning systems.
- ❖ Solve the cooling capacity and coefficient of performance calculations by conducting test on vapour compression refrigeration systems.

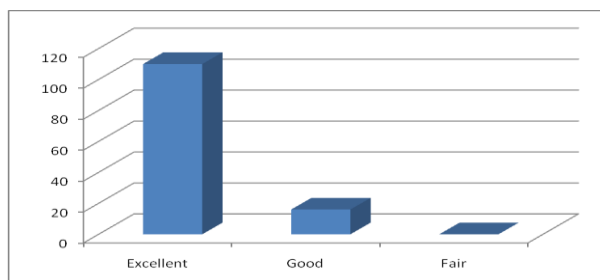
List of Attended Participants

S.No	Name of Institute/Organisation	Number of participants
1	A.V.C.COLLEGE OF ENGINEERING	4
2	CARE College of Engineering	10
3	Anjalai Ammal Mahalingam Engineering College	3
4	EGS PILLAY ENGINEERING COLLEGE	5
5	Kings College of Engineering	93
6	K Ramakrishnan College of Engineering & Technology	5
7	M.I.E.T. Engineering College in Trichy	6

Feedback questions and responses

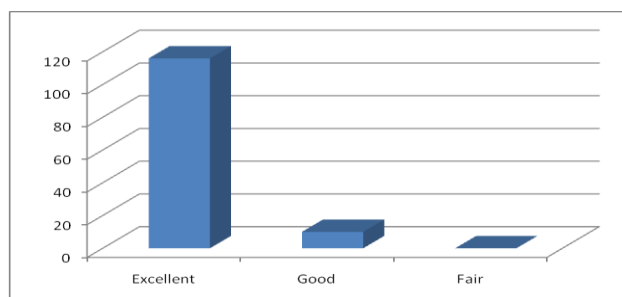
1. Content of the Program?

Excellent	Good	Fair
110	16	0



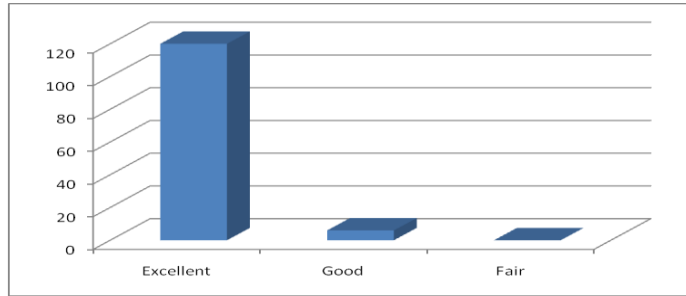
2. Quality of Audio/Video Streaming?

Excellent	Good	Fair
116	10	0



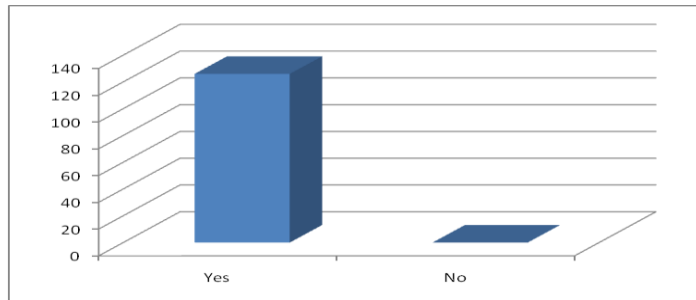
3. Way of Presentation?

Excellent	Good	Fair
120	06	0



4. Are you interested in future webinars in Kings?

Yes	No
126	0



M.V.
7/3/23
Coordinator
(Mr.M.Vivekananthan)
(Mr.R.Rajadurai)

T. Pushparaj
7/13/23
HOD/Mechanical
(Dr.T.Pushparaj)

J. Arputha
07/13/2023
Principal
(Dr,J,Arputha Vijaya Selvi)