

# ADITYA COLLEGE OF ENGINEERING

(Approved by AICTE & Affiliated to JNTUK, Kaklnada)  
Aditya Nagar, ADB Road, Surampalem – 533437

## Department of Mechanical Engineering

Title of the Workshop	: Refrigeration & Air Conditioning
Resource Persons	: Prof A SRIDHAR, GITAM University
Date(s) of Workshop	: 24-10-2016 to 26-10-2016
Aim of Workshop	: Refrigeration fundamentals Learning various methods in Refrigeration Learn to guide learners on Refrigeration Learn the relevance of applications in real time

Refrigeration is mainly required in various food processing and food preservation operations and refrigeration required in almost all chemical and process industries. It is also required for comfort and industrial air conditioning and there are also several other applications of air conditioning and refrigeration such as in medicine, construction, sports extra.

Natural ice can be obtained from colder regions and it can be transported to regions where it is not available. For example ice is available in Polar Regions so you can cut the blocks of ice from the polar region and they used to be transported to other areas. This used to be actually a very flourishing business in olden times. Of course the ice use to come all the way from America to even to India, i mean countries like India. Then the second methods are harvest the ice in winter and store it for use in summer.

There are several countries where the winters are very harsh so you can actually make ice lakes and rivers freeze in winter so you cut the ice blocks and store them in ice houses and use them in summer. This is the second popular method. And the third method is to production of ice using nocturnal cooling. This is the method which has been used for centuries in countries like India and Middle East. So now let us look at the principle of nocturnal cooling.

### **Program Schedule:**

<b>Date</b>	<b>24-10-2016</b>
10:00-10:20	Intro to Workshop
10:20-11:10	Getting started with Refrigeration
11:10-11:30	Tea break
11:30 -1:10	Basics of Refrigeration
1:10-2:00	Lunch
2:00-4:40	Hands-On and review



<b>Date</b>	<b>25-10-2016</b>
9:30-10:30	Types pf Air conditioning
10:20-11:10	present situation
11:10-11:30	Tea break
11:30-12:20	Video demonstration
12:20-1:00	Applications
1:00-2:00	Lunch
2:00-4:40	Hands-On and review

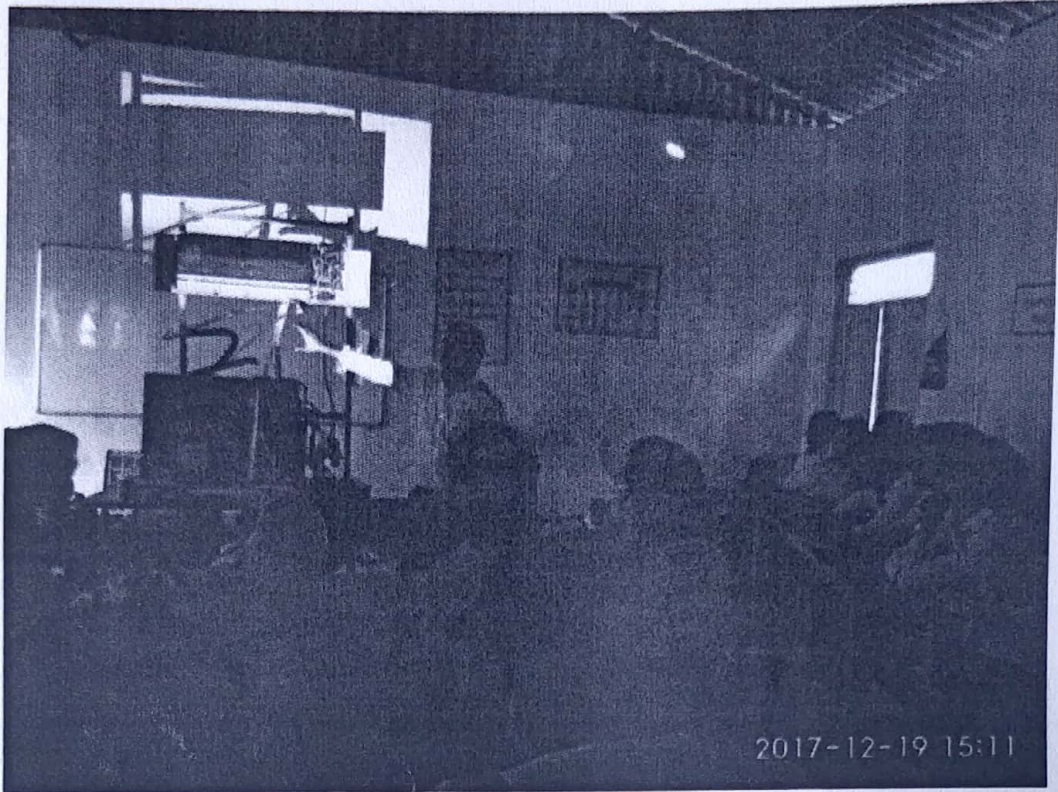
<b>Date</b>	<b>26-10-2016</b>
9:30-10:30	Role of Refrigeration in industries
10:20-11:10	Technology developments
10:20-11:10	Role of Mechanical Engineers
11:10-11:30	Tea break
11:30-12:20	Video demonstration
12:20-1:00	Future Scope
1:00-2:00	Lunch
2:00-4:40	Overview

**No. of Participants : 85**

### **PROGRAM PHOTOS**







**Overall Assessment : Good**

**Event Coordinators :**

1. Mr. M. RAMBABU

Assistant Professor, Dept. of ME

2. Mr. P.V.S.S. KRISHNA

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