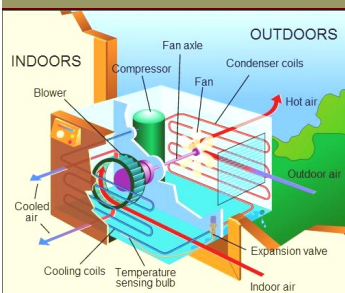


Mechanical Department

21<sup>st</sup> June , 2014

SMT. S. R. PATEL ENGINEERING COLLEGE

# FDP Report

## One Day FDP on “Advances in Refrigeration & Air-Conditioning ”

### Objectives:

To get the knowledge about the Advances in the field of refrigeration and air-conditioning.

To know the up coming requirements related to research of alternates in this field.

To study the optimization of the system.

### Speakers:

Dr . Ragesh Kapadiya  
Principal  
SVNIT, Bharuch.

Dr. Vishal N Singh  
Professor & Head,  
ADIT, VV Nagar

Dr. Jignesh R Mehta  
Assistant Professor,  
The M.S. University of  
Baroda, Vadodara

Dr. Vijay K Matawala  
Professor & Head,,  
GPERI, Mehsana

### FDP co-ordinators:

Dr. Vijay Matawala  
Prof. Hitesh Panchal

### Summary:

Faculty got the good advance knowledge of about Advances in refrigeration and air conditioning .the expert explained the following topics.

### Topics :

- Refrigerants for Future Generation
- Refrigerant Compressor Technologies and Challenges .
- Solar Energy for Cooling Application.
- Exegetic optimization of VAR System
- Alternative Air Conditioning Techniques

### Participated & Submitted By:

Prof. Dixit M Patel (Mechanical)

Prof. Harshad C Patel (Mechanical)

Prof. Vinod P Rajput (Mechanical)

### DETAIL OF FDP

After the registration and high tea the Inauguration function was started at 10:30 pm. This is contained of welcome address, prayer, floral welcome, about institute, about FDP, about vote of thanks.

In first session conducted the topic “Refrigerants for Future Generation”. He focuses on the different protocols related to ODP & GDP and also explained the road map for research and development of new refrigerant. Second session was on “Refrigerant Compressor Technologies and Challenges ” which focuses on different type of compressors and their problems. Third and fourth sessions is combined and taken on “Solar Energy for Cooling Application and Alternative Air Conditioning Techniques ” . This included the different alternative ways of refrigeration and get high COP using evaporative cooling of air. The last session was held on Exegetic optimization of VAR System which focused exergy analysis of Li-Br VAR system.



**GUJARAT POWER ENGINEERING  
& RESEARCH INSTITUTE, MEVAD**

