

Mechanical Department

17<sup>th</sup> October, 2014

SMT. S. R. PATEL ENGINEERING COLLEGE

# Industrial Expert Lecture Report

## Industrial Expert Lecture on “Shell and Tube Heat Exchanger: Design, TEMA standards and Detailing”

### Objectives:

To enhance the knowledge about the heat exchangers used in the different field like dairy industry, brewages and pharmaceuticals.

To get ideas about the designing of mostly used heat exchanger: Shell and Tube Heat Exchanger,

To realize the problems related to designed s for different plants.

### Industrial Expert:

Mr. Akhilesh Patel  
Design Engineer  
IDMC Ltd., Anand

### Industrial Expert Lec- ture coordinator:

Prof. Vinod P Rajput  
Mechanical Department,  
SRPEC.

### Summary:

Importance of heat exchangers like evaporators and condensers in process industry is explained. The topics covered are mentioned below.

### Topics :

1. Why a Shell and Tube Heat Exchanger
2. TEMA Standards
3. Inner Details of S&T HX
4. Thermo-Hydraulic Analysis of Heat Exchanger
5. Software used in Design of such complex heat exchangers.
6. Different Method used in designing.

### DETAIL OF INDUSTRIAL EXPERT LECTURE

Industrial expert lecture was started at 1:40 PM. The lecture was started with the importance of the heat exchangers in almost each industry. The different types ate explained of shell and tube heat exchangers according to TEMA standards. The different methods to design such heat exchangers are explained. The software used to design such complex heat exchangers are introduced to the students. The session was completed after the brain storming questions and satisfying answers from the expert's side.

Feed back from the students	Excellent	Very good	Good	Inadequate
1. Relevancy of Topics	49%	27%	23%	1%
2. Overall Quality of Contents	46%	31%	22%	1%
3. Duration of Expert Lecture	37%	46%	17%	0%
4. Communication by Faculty	36%	48%	16%	0%

### Lecture Participant :

Expert lecture was organized for students of 7th semester Mechanical Engineering . There were 104 students were present in Expert lecture.