



## VISHWKARMA GOVERNMENT ENGINEERING COLLEGE, CHANDKHEDA

### **Report on the Training Program on 'Process Engineering and Design'** **(Session – 2)**

<b>Name of Department</b>	:	Chemical Engineering
<b>Title of Session – 2</b>	:	Introduction to HTRI Software
<b>Expert Name, Designation &amp; Affiliation</b>	:	Shri Apurva Shah Deputy Manager, Linde Engineering India Pvt. Ltd. Vadodara
<b>Date &amp; Time</b>	:	21/02/2021, 11:00 a.m. to 1:00 p.m.
<b>Venue</b>	:	ONLINE (Microsoft Teams)
<b>No of Participants</b>	:	120
<b>Event Coordinator</b>	:	Prof. U. P. Christian

#### **About the Training Program**

An Online training on '**Process Engineering and Design**' (total duration of 20 hours) is organized by Chemical Engineering Department under the auspices of the **Institution of Engineers India (IEI)** from February to April 2021. This training program is organized for U.G. and P.G. students of Chemical Engineering from various Institutes of Gujarat.

#### **Objectives of the Training Program**

- To discuss about the significant procedure for the design of process plant equipment such as shell & tube heat exchanger, distillation column, absorbers or scrubbers, pump, flow meters and piping.
- To learn about the detailed selection criteria among the different types of equipments.
- To learn about the mechanical design of pressure vessel.
- To discuss on specification sheets, drawings, etc.
- To get the exposure of software such as HTRI, and ASPEN used for the design and simulation of equipment.

#### **Discussion Points: Session-2**

- Initiating the design of heat exchanger
- Different points to consider while designing heat exchanger
- Input needed for heat exchanger design using HTRI
- Analysis of HTRI reports

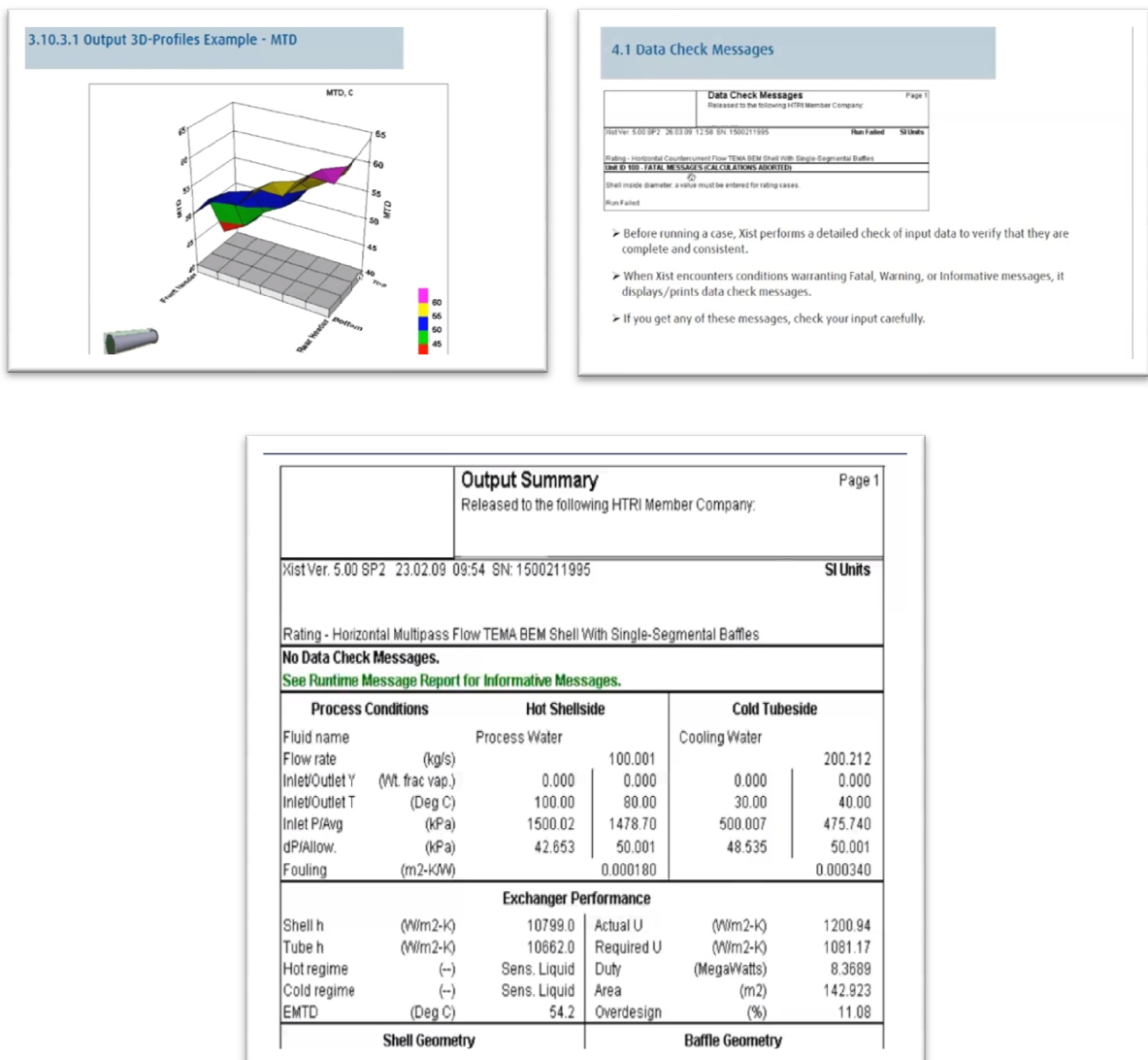
## Outcomes: Session-2

- Participants have learnt about the designing using HTRI software, along with pros and cons of the software.
- Participants have interacted with the expert about the optimum design considerations
- Participants were made aware of the latest updates and modification in HTRI software
- This session was interesting and informative as per the responses received from the 120 attendees.

## Words from the Expert

- “You have to have an idea about the final answer before starting the calculation to avoid major mistakes.” – Shri Apurva Shah

## Glimpses of the Session-2





**VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE**  
**CHANDKHEDA AHMEDABAD**

**CHEMICAL ENGINEERING DEPARTMENT**  
ORGANIZED A SESSION ON  
INTRODUCTION TO

# HTRI

SOFTWARE

ON **21 FEB 2021** | **MICROSOFT TEAMS**

**EXPERT**

**SHRI APURVA SHAH**

DEPUTY MANAGER,  
LINDE ENGINEERING INDIA PVT. LTD.  
VADODARA

**120**

**STUDENTS**  
PARTICIPATED

## KEY POINTS

- INITIATING THE DESIGN OF HEAT EXCHANGER
- DIFFERENT POINTS TO CONSIDER WHILE DESIGNING HEAT EXCHANGER
- INPUT NEEDED FOR HEAT EXCHANGER DESIGN USING HTRI
- ANALYSIS OF HTRI REPORTS
- LATEST UPDATES AND MODIFICATION IN HTRI SOFTWARE



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**- SHRI APURVA SHAH**

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