

SCHOOL OF CHEMICAL ENGINEERING (SCHEME)
IN ASSOCIATION WITH
SOCIETY OF PETROLEUM ENGINEERS - VIT

NDIAN INSTITUTE OF CHEMICAL ENGINEERS A

**INDIAN INSTITUTE OF CHEMICAL ENGINEERS - VIT** 

**PRESENTS** 

WORKSHOP on

# SIMULATION TOOLS FOR ENGINEERING APPLICATIONS

Venue: SMV G17

Date: 18th December to 22nd December





# **PROGRAMME SCHEDULE**

Date: 18.12.23 - 22.12.23			Venue: SMV G17
Day	Date & Time	Lecture Topic	Resource Person
1	18.12.23 2.00 P.M – 4.00 P.M	Welcome Address, Aspen Simulation Basics, Hands on session on how to develop the Phase Diagrams, Flash Calculations, etc.	Dr. Bandaru Kiran, Faculty Coordinator, SPE-VIT Student Chapter
	18.12.23	Property Method selection	Prof. L. Muruganandam,
	4.00 P.M – 5.00 P.M		Professor and Dean, SCHEME
2	19.12.23	Hands on session on Aspen Simulation studies on	Dr. Bandaru Kiran,
	2.00 P.M – 5.00 P.M	Separation Processes, Reaction Engineering & Heat Exchanger Networks	Assistant Professor, SCHEME
3	20.12.23	Hands on session on Multi	Dr. Samarashi Chakraborty,
	2.00 P.M – 5.00 P.M	Criteria Decision Making using MS Excel	Assistant Professor, SCHEME
4	21.12.23	Matlab:	Dr. P. Monash,
	2.00 P.M – 5.00 P.M	Basics, Hands on session on functions handling & Data Analysis.	Professor, SCHEME
5	22.12.23	Hands on session on Research	Dr. P. Monash,
	2.00 P.M – 4.30 P.M	tools in Matlab, Simulink model for research experiments.	Professor, SCHEME
	22.12.23 4.30 P.M – 5.00 P.M	Vote of Thanks	Dr. K Sivagami, Faculty Coordinator, IIChE- VIT Vellore Student Chapter





## **COURSE OBJECTIVE:**

This course aims to provide students/faculty rich hands on experience on the use of simulation tools such as Matlab; Aspen Plus ;in addressing Chemical Engineering Problems so that the students/faculty will be able to simulate the design of new plants, debottlenecking, optimizing the performance of units.

### **COURSE OUTCOME:**

- To analyze physical and chemical phenomena involved in various processes
- To develop mathematical models for various chemical processes
- To solve real life problems from industry using the simulation tools.

#### WHO MAY BENEFIT:

The course will be beneficial to faculty, PG Students and Research Scholars.

#### **CO ORDINATORS:**

DR. SIVAGAMI K, Associate Professor Senior Grade-II Phone: 9487628920

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## **RESOURCE PERSONS**



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