

## SRICT



Established in 2011, Shroff S. R. Rotary Institute of Chemical Technology (SRICT) is the first institute in Gujarat to give B.E. in Chemical Technology and Environment Science & Technology. SRICT also offer B.E. in conventional disciplines such as Chemical Engineering, Mechanical Engineering, & Electrical Engineering. SRICT is run by Ankleshwar Rotary Education Society. The institute is affiliated to GTU and AICTE. The institute has humbly started its academic journey in pleasant and peaceful location, 15 km away from Ankleshwar Railway Station. SRICT strives to be a world-class institute to impart knowledge, quality technical education and develop top leaders required by chemical and allied industries. Institute has well equipped laboratories, rich library with chemical abstracts, adequately equipped computer centre and other facilities to support the teaching and learning process. SRICT is about finding solutions to social exclusion and disintegration and will look to work with private, public and third sector partners in stimulating cohesion, entrepreneurship, economic development and involvement in neighbourhood renewal and regeneration within community of chemical industries at Ankleshwar.

### Chemical Engineering Department

The Department of Chemical Engineering was started since the inception of the institute. The Department has highly qualified faculty from prestigious universities and institutes like University of Newcastle, Australia, ICT Mumbai, IITs and NITs. The Department is well equipped with undergraduate, post graduate and R&D laboratories and working on 9 different sponsored

research projects from different industries like Bharuch Enviro and Infra structure Ltd., SHIVALIK and Enviro Technology Ltd. The department also runs the IChE student chapter of Ankleshwar region. The Department of Chemical Engineering has successfully completed Performance excellence in Chemical Engineering (PACE) training program for Zydus Cadila and Heubach. Expert Lectures / Seminars / Workshops / Technical paper contests / industrial visits are regularly conducted for the benefit of both faculty and student community.

### Objective of the program

The program is designed for the third and fourth year chemical and chemical-allied engineering students to introduce them to the concept of process simulation and its importance in industry. DWSIM is an open-source CAPE-OPEN compliant chemical process simulator. It features a Graphical User Interface (GUI), advanced thermodynamics calculations, reactions support and petroleum characterization / hypothetical component generation tools. DWSIM can simulate steady-state, vapor-liquid, vapor-liquid-liquid, solid-liquid and aqueous electrolyte equilibrium processes and has built-in thermodynamic models and unit operations. The objective of the present training program is to create awareness of the open source process simulator "DWSIM" among the undergraduate and postgraduate students.

### Outline of contents

The program would essentially include the introduction to simulation, selecting and creating hypothetical components, proper selection of fluid packages. The hands on practice will be given for simulating basic unit operations, creating database, predicting thermodynamic properties of pure components, inserting conversion, equilibrium and kinetic reactions, simple distillation illustration based on introduction to process engineering and various case studies based on chemical process industries.



## Two Days Training Program on A Free & Open Source Chemical Process Simulator: DWSIM

09<sup>th</sup> & 10<sup>th</sup> February 2018



**Organizes by**

**Chemical Engineering Department,**

**SRICT**

**Jointly with**



**SRICT IChE-Students Chapter**

**Address for correspondence**

Shroff S R Rotary Institute of Chemical  
Technology (SRICT)

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Phone No. 02643-270320, 270323,  
Mobile: 98794 78939 Web:

[www.srict.in](http://www.srict.in)

## Schedule of the program

Day One: 09 <sup>th</sup> February 2018	
Time	Program
09:30 to 10:00	Registration and Tea
10:00 to 11:30	Session-I: Introduction to a process simulation
11:30 to 13:00	Session-II: Understanding the interface of a simulator
13:00 to 13:45	<b>Lunch Break</b>
13:45 to 15:00	Session-III: Creating database and selection of fluid package
15:00 to 15:15	<b>High Tea</b>
15:15 to 16:30	Session-IV: Simple illustration on mixing, splitting, pumps, adiabatic expander and compressors
16:30 to 17:00	<b>Open house</b>

Day Two: 10 <sup>th</sup> February 2018	
Time	Program
09:30 to 11:00	Session-I: Process simulation in chemical process industries
11:00 to 11:15	<b>Tea break</b>
11:15 to 12:30	Session-II: Simple illustration on simulation of heat exchanger
12:30 to 13:15	<b>Lunch Break</b>
13:15 to 14:15	Session-III: Simulation of a reactor (conversion, equilibrium and kinetic)
14:15 to 15:30	Session-IV: multi-component distillation (shortpath distillation)
15:30 to 15:45	<b>High Tea</b>
15:45 to 16:30	Feedback & Valediction

## Resource persons

- Dr. Sunil Waje, Dy. General Manager - Projects, UPL-5, Jaghadia
- Mr. Rilesh Mehta, Sr. process engineer, Solvay Specialty Ltd., Panoli
- Mr. Krunal Suthar, Chemical engineering department, SRICT, Vataria

## Important dates

Receipt of applications: 30/01/2018

Confirmation of selection: 02/02/2018

By e-mail

## Organizing committee

Patron: Rtn. Ashok A. Panjwani, Vice-chairman,  
Ankleshwar Rotary Education Society

### Advisory committee

Dr. K. K. Sundaram	Principal, SRICT
Dr. S. V. Dharwadkar	Professor, SRICT
Dr. Alok Gautam	Head, Chemical Engg., SRICT
Dr. Shina Gautam	IICHe co-ordinator, SRICT
Mr. B. D. Dalwadi	CEO, BEIL, Ankleshwar
Dr. PN Parameswaran	VP, Environment, UPL

### Students organizing committee (IICHe students' chapter)

Shipra Gupta (8141603510)	Technical & rapporteur
Rushil Modi (7575883839)	Accommodation & Transportation
Jaimin Shukla (7567579204)	Design & Marketing
Adil Patel (9898103723)	Correspondence
Riddhi Chandegara	Registration

## How to apply

The applicants are required to send completely filled in application form (photocopy may also be used) along with the registration fees so as to reach the coordinator on or before -30<sup>th</sup> January 2018.

### Course Registration Fees

Fees: Rs. 500/- inclusive of all type of taxes.

Tea, Lunch and course materials with pen drive will be provided to all the participants. All other expenses are to be borne by the participants. Accommodation can be provided to students from out of station with prior approval. Certificate of participation will be issued to all the participants at the end of the workshop.

For further details, contact:

Mr. Krunal J. Suthar  
Coordinator

Department of Chemical Engineering, Shroff S R Rotary  
Institute of Chemical Technology, Block No. 402, At  
Vataria, Ta. Valia.

[krunal.suthar@srict.in](mailto:krunal.suthar@srict.in)

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Note:

- Participants are required to bring their laptop for the workshop
- Cheque/DD should be in favour of "Shroff S R Rotary Institute of Chemical Technology" payable at Ankleshwar

## REGISTRATION FORM

Name: .....

Branch and year: .....

Undergraduate  Postgraduate

Name & Address & Organization:

.....  
.....

Accommodation

Required

Not Required

Mobile No.: .....

E - Mail: .....

Cheque/DD No. & Date:

.....

All data provided are true to the best of my knowledge and belief. Kindly register me for the Training Program on "A free & open source chemical process simulator: DWSIM" to be held at SRICT, Vataria.

Date: ..... Signature: .....

## AUTHORIZATION

Mr./Ms./.....

is a student of our institute. He/She is permitted to attend the training program on "A free & open source chemical process simulator: DWSIM" to be held at SRICT, Vataria during February 09-10, 2018, if selected.

Signature of Head of Department