## 3-Day RUSA Skill Development **Programme** On

## Digital Twin using walk inside softwares

15th - 17th Dec 2025



## Organized by

Department of Chemical Engineering A.C. Tech Campus, Anna University Chennai - 600025

Venue: Raman Auditorium



#### Theme of the Workshop

This 3-Day Skill Development Programme is designed to introduce participants to the essential concepts on "Digital Twin using walk inside softwares" of process plants. The programme integrates theory, industrial practices, and hands-on sessions focused on digitalization, advanced engineering, operational excellence in industrial plant design and automation, specifically leveraging the COMOS and SIMIT software suites.

#### **Highlights of the Programme**

- Process plant visualisations
- Operator training
- Front-End Engineering & Design (FEED).
- Creating PFDs and P&IDs
- Hands on experience with COMOS
- Electrical, Instrumentation, and Control (EI&C) engineering
- · Circuit diagrams
- Control panel layout
- Equipment tagging and documentation
- Simulation models
- SIMIT-COMOS integration
- Data exchange between PLC, Walkinside
- Risk reduction in commissioning
- Immersive VR simulations

#### **Benefits to Participants**

Participants will emerge with comprehensive knowledge and hands-on experience to design, successfully manage, simulate, implement, and virtually operate complex industrial automation systems using the leading integrated software suite. Certificate of participation from Anna University (RUSAfunded).

Who Can Apply

- •Third and Fourth year students of ACT, CEG and MIT campus, Anna University, Chennai
- •Maximum 40 participants
- •No registration fee (RUSA-sponsored)
- •Selection will be based on first-come-first served basis

Register using the Google form below on or before 12th December 2025 https://shorturl.at/FFNRN

**Organizing Committee** 

Convener Committee Members **Chief Patron:** 

Dr. V. Kumaresan Patron: Registrar (i/c) &

Dr. S. Meenakshisundaram

Dean, AC Tech Campus

**RUSA Program** Tmt. C. Geetha

Manager SPD, RUSA Chair and Dr. K.V. Radha Co-Ordinator Professor & Head

Department of Chemical Engg.

**AC Tech Campus** 

Dr. T. Santhoshini Priya Co-Ordinator

**Assistant Professor** 

Department of Chemical Engg.

AC Tech Campus

About the Department of Chemical

**Engineering** 

The Department of Chemical Engineering at A.C.Tech is one of the oldest in India, offering B.Tech, M.Tech, MS(by Research), and Ph.D. programs. The department is known for excellence in Chemical Process Engineering, Transport Phenomena, Energy Systems, Reaction Engineering, Environmental Engineering, Pipeline Engineering, and Process Design.

The department has strong collaborations with industries and academic institutions. conducting consultancy, training, research under various government-funded schemes, including RUSA, DST, and more.

# 3-Day RUSA Skill Development Programme

On

#### **DIGITAL TWIN USING WALK INSIDE**

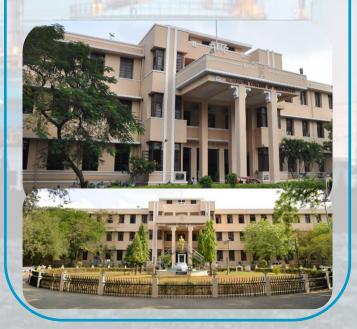
#### **SOFTWARES**

15 Dec 2025 - 17 Dec 2025 09:00 AM to 4:30 PM



### **Organized by**

Department of Chemical
Engineering
A.C.Tech Campus, Anna University
Chennai – 600025



#### **REGISTRATION FORM**

Name /in conitals)

Name (in capitals)
Degree/Branch/Sem:
Institution
Address of the Institution:
Email:
Mobile No.:

#### **DECLARATION**

I declare that all the details furnished above are true to the best of my knowledge and I agree to abide by the rules and regulations of the programme.

Date:	Signature	of the Applicant
-------	-----------	------------------

#### **CERTIFICATE FROM THE INSTITUTION**

Mr./Ms./	
Student of(ye	ar/branch)
of our institution is hereby per	mitted to
attend the 3-days SDP on "Dig	ital Twin
Using Walk Inside Softwares",	if selected.

Signature of the Head of the Institution with seal

#### **INFORMATION TO THE APPLICANTS**

- A Scanned copy of registration form duly signed by HoD should be uploaded along with the google form.
- The selection intimation will be communicated only through e-mail.
- SDP will be conducted in physical mode only.
- Attendance is compulsory on all 3 days to obtain the certificate.
- Outstation participants have to make their own arrangements for travel and stay. Working lunch and refreshments will be provided all 3 days.

Register using the Google form below on or before 12<sup>th</sup> December 2025 <a href="https://shorturl.at/FFNRN">https://shorturl.at/FFNRN</a>

#### **PROGRAMME VENUE**

Raman Auditorium,
Main Building
Alagappa College of Technology
Anna university
Chennai
TamilNadu 600025



#### DEPARTMENT OF CHEMICAL ENGINEERING A C Tech Campus, Anna University, Chennai – 600025



## RUSA FUNDED THREE DAYS SKILL DEVELOPMENT PROGRAMME ON

#### DIGITAL TWIN USING WALK INSIDE SOFTWARES

15.12.2025 - 17.12.2025

#### **SCHEDULE**

Day & Date	Session I 09.00 - 10.00 AM		Session II 10.15 - 11.15 AM	Session III 11.15 - 12.15 PM		Session IV 01.15 - 02.15 PM	Session V 02.15 - 03.15 PM		Session VI 3.30 - 04.30 PM
Day 1 15/12/2025 (Monday)	Fundamentals & TIA Portal Overview / I/O Configuration & Basic PLC Programming Front-End	T e	PID Control and Closed-Loop Systems  PFD and P& ID	SCADA, Visualization, and Alarm Management  Object		Data Handling & Analysis  Data Import and	Integration of PLC, SCADA, SIMIT, and COMOS	T	Interface S7-1200 with a Plant with SIMIT.
Day 2 16/12/2025 (Tuesday)	Engineering & Design (FEED).	a B r e	Hands-on: Conversion of PFDs to P&IDs	Management & Practical session on Object Management within COMOS	L u n c	Editing  Hands-on: Data Import and Editing	Instrumentation, and Control (EI&C) engineering	а	experience with COMOS Software
Day 3 17/12/2025 (Wednesday)	Virtual commissioning. Simulation models	a k	Virtual reality applications & Immersive VR simulations	Equipment tagging and documentation	11	PLC integration / Risk reduction in commissioning	Design a Distribution Panel with specification from an Industry.	a k	Integration of COMOS P&ID with Walkinside 3D objects for navigation.