

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, and 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 successfully manage, design, simulate, implement, and virtually operate complex industrial automation systems using the leading integrated software suite. Certificate of participation from Anna University (RUSA-funded).

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

Chief Patron:	Convener Committee Members
Patron:	Dr. V. Kumaresan Registrar (i/c) & Dr. S. Meenakshisundaram Dean, AC Tech Campus
RUSA Program Manager	Tmt. C. Geetha SPD, RUSA
Chair and Co-Ordinator	Dr. K.V. Radha Professor & Head Department of Chemical Engg. AC Tech Campus
Co-Ordinator	Dr. T. Santhoshini Priya 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, and 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 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(year/branch)
of our institution is hereby permitted to
attend the 3-days SDP on “Digital 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.

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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	T e a c h i n g	PID Control and Closed-Loop Systems	SCADA, Visualization, and Alarm Management	L u n c h	Data Handling & Analysis	Integration of PLC, SCADA, SIMIT, and COMOS	T e a c h i n g	Interface S7-1200 with a Plant with SIMIT.
Day 2 16/12/2025 (Tuesday)	Front-End Engineering & Design (FEED).		PFD and P& ID Hands-on: Conversion of PFDs to P&IDs	Object Management & Practical session on Object Management within COMOS		Data Import and Editing Hands-on: Data Import and Editing	Electrical, Instrumentation, and Control (EI&C) engineering		Hands on experience with COMOS Software
Day 3 17/12/2025 (Wednesday)	Virtual commissioning. Simulation models		Virtual reality applications & Immersive VR simulations	Equipment tagging and documentation		PLC integration / Risk reduction in commissioning	Design a Distribution Panel with specification from an Industry.		Integration of COMOS P&ID with Walkinside 3D objects for navigation.

Dr. T. Santhoshini Priya
Coordinator

Dr. K.V. Radha
Chair & Coordinator