

# 3-Day RUSA Skill Development Programme

10 Dec 2025 – 12 Dec 2025

09:00 AM to 4:30 PM



**Organized by**

**Department of Chemical Engineering**

**A.C.Tech Campus, Anna University  
Chennai – 600025**



## Theme of the Workshop

This 3-Day Skill Development Programme is designed to introduce participants to the essential concepts of “**Piping Engineering and Process Plant Engineering, starting from concept to commissioning stage**” of process plants. The programme integrates theory, industrial practices, and hands-on sessions to provide a strong understanding of piping layouts, equipment layout, codes & standards, isometric drawings, material selection, and commissioning activities.

## Highlights of the Programme

- Techno-Commercial, Process Design
- Piping Engineering, BFD, PFD and P & ID
- Layout & Plan, Mechanical Design Phase
- Pressure Vessel Calculation (Internal and External Pressure)
- Piping Elements, Material Specifications
- International Codes and Standards
- Software, Pumps
- Pressure Drop with sample calculations
- Valves & Control Valves, Heat Exchangers
- Instrumentation, Storage
- Cryogenics, Jacket & Heat Tracing
- Cross Country Piping, Flare Stack
- HAZOP, HEN, Construction Phase
- Erection Phase Commissioning Phase
- Operation and Maintenance Phase

## Benefits to Participants

Industry-oriented skills relevant for oil & gas, petrochemical, chemical and water industries. Practical understanding of plant design documentation. Hands-on training with sample design documents. Certificate of participation from Anna University (RUSA-funded).

## Who Can Apply

- Third and Fourth year students of ACT, CEG and MIT campus
- Maximum 40 participants
- No registration fee (RUSA-sponsored)

**Register using the Google form below  
before 07<sup>th</sup> December 2025**

<https://forms.gle/FmzbVPY24gBUAs7L8>

## Organizing Committee

**Chief Patron  
Patron**

**Convener Committee Members**

**Dr. V. Kumaresan**

Registrar(i/c) &

**Dr. S. Meenakshisundaram**

Dean, AC Tech Campus

**Project Manager Tmt. C. Geetha**

SPD, RUSA

**Chair and  
Co-Ordinator**

**Dr. K.V. Radha**

Professor & Head

Department of Chemical Engg.

**Co-Ordinator**

**Dr. G. Dhivakar**

Assistant Professor

Department of Chemical Engg.

## 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

10 Dec 2025 – 12 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 “Piping Engineering and Process Plant Engineering, starting from concept to commissioning stage”, 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 before 07<sup>th</sup> December 2025**

<https://forms.gle/FmzbVPY24gBUAs7L8>



**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 –**  
**600044**



**RUSA FUNDED THREE DAYS SKILL DEVELOPMENT PROGRAMME**  
**ON**  
**PIPING ENGINEERING AND PROCESS PLANT ENGINEERING, STARTING**  
**FROM CONCEPT TO COMMISSIONING STAGE**

**10.12.2025 – 12.12.2025**

**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
<b>Day 1</b> <b>10/12/2025</b> <b>(Wednesday)</b>	Techno-Commercial Overview of Process Plants	T e a c h i n g	Basic Process Design – BFD, PFD and P&ID	Layout & Plot Plan Concepts	L u n c h	Pressure Vessel Design (Internal & External Pressure)	Piping Elements & Material Specifications	T e a c h i n g	International Codes & Standards
<b>Day 2</b> <b>11/12/2025</b> <b>(Thursday)</b>	Pumps – Design Considerations & NPSH		Pressure Drop – Theory & Sample Calculations	Valves & Control Valves – Types & Selection		Heat Exchangers – Overview & Design Basis	Instrumentation in Process Plants		Storage Tanks, Cryogenics, Jacket & Heat Tracing
<b>Day 3</b> <b>12/12/2025</b> <b>(Friday)</b>	Cross Country Piping – Design & Safety		Flare Stack – Fundamentals	HAZOP & Hazard Identification		Heat Exchanger Network (HEN)	Construction Phase & Erection Phase Activities		Commissioning & Operation & Maintenance & Valedictory Function & Certificate Distribution

**Dr. G. Dhivakar**  
Coordinator

**Dr. K.V. Radha**  
Chair & Coordinator