



**NANDHA ENGINEERING COLLEGE, (Autonomous),
Erode-52**

Department of Chemical Engineering

ALUMNI INTERACTION

"From Classroom to Chemical Plant: Industry Insights, Production Practices and Career Opportunities"

Date	02.09.2026
Alumni Speaker	Mr. A. R. Sugieshiva Shanmugam Chemical Engineer – Production Chemplast Sanmar Limited Mettur, Tamil Nadu
Participants	Second and Third-Year Chemical Engineering Students
Participant Count	45

Introduction

The Department of Chemical Engineering, Nandha Engineering College (Autonomous), Erode, organized an Alumni Interaction Programme titled "From Classroom to Chemical Plant: Industry Insights, Production Practices and Career Opportunities". The programme featured Mr. A. R. Sugieshiva Shanmugam, an alumnus of the Department and currently working as a Chemical Engineer – Production at Chemplast Sanmar Limited. The interaction was organized to provide students with valuable insights into the practical application of chemical engineering concepts in industrial production environments.

Objectives of the Programme

The major objectives of the alumni interaction were:

- To provide students with practical exposure to chemical process industries.
- To explain the role and responsibilities of chemical engineers in production operations.
- To bridge the gap between classroom learning and industrial practices.
- To familiarize students with process plant operations, safety and troubleshooting.
- To create awareness about career opportunities in core chemical industries.
- To motivate students to develop industry-relevant technical and professional skills.

Interaction with the Alumni

Mr. A. R. Sugieshiva Shanmugam shared his professional experiences and explained the transition from being a chemical engineering student to working as a Chemical Engineer in the production sector. He discussed the importance of fundamental chemical engineering subjects in industrial applications and explained how concepts such as Mass and Energy Balances, Fluid Flow, Heat Transfer, Mass Transfer, Process Control, Thermodynamics and Process Safety are applied in day-to-day plant operations.

The alumnus also highlighted the importance of monitoring process parameters, maintaining production efficiency, identifying operational deviations and implementing appropriate corrective measures. Practical examples from the chemical manufacturing sector helped students understand the challenges involved in maintaining safe, reliable and efficient plant operations.

Key Areas Covered

The interaction focused on the following areas:

- Chemical process plant operations and production management.
- Roles and responsibilities of production engineers.
- Application of chemical engineering fundamentals in industry.
- Process monitoring and optimization.
- Industrial safety and safe operating procedures.
- Equipment operation and troubleshooting.
- Quality control and production efficiency.
- Teamwork and communication in process industries.
- Career opportunities in core chemical engineering industries.
- Skills expected from fresh chemical engineering graduates.

Student Interaction

The session was highly interactive, with students actively participating in the discussion. Students raised questions regarding career opportunities, industrial work culture, production operations, technical skills, recruitment requirements, internships and professional development. The alumnus responded to the queries by sharing his industrial experiences and practical suggestions. His interaction enabled students to gain a realistic understanding of the expectations of chemical process industries from young engineering graduates.

Outcomes of the Programme

The alumni interaction successfully helped to:

- Enhanced students' understanding of real-time chemical plant operations.
- Connected theoretical chemical engineering concepts with industrial applications.
- Improved awareness of production engineering practices and safety requirements.
- Motivated students to strengthen their technical fundamentals.
- Created awareness about career opportunities in core chemical industries.
- Encouraged students to develop problem-solving, communication and teamwork skills.
- Provided valuable guidance for preparing for industrial careers.

SDG Mapping

Priority	SDG		Relevant Target	Why it maps to the activity
Primary	SDG 4 – Quality Education		4.4	The alumni interaction provided students with practical exposure to chemical process industries and helped them develop technical, professional and employability skills relevant to industrial careers.
Secondary	SDG 8 – Decent Work & Economic Growth		8.5	The session created awareness about career opportunities, industrial work culture, recruitment requirements and professional development, helping students prepare for productive employment.
Secondary	SDG 8 – Decent Work & Economic Growth		8.6	The programme supported students' transition from engineering education to employment by improving career awareness, industry readiness and understanding of skills expected by chemical process industries.
Secondary	SDG 9 – Industry, Innovation & Infrastructure		9.2	The interaction strengthened the industry–academia connection by exposing students to real-time plant operations, production management, process monitoring, optimization, troubleshooting and industrial safety.

OVERALL IMPACT

The programme successfully provided students with meaningful industry exposure through the experience of a distinguished alumnus. The interaction enabled students to understand how classroom concepts are translated into industrial practice and helped them appreciate the importance of developing both technical and professional competencies.

The session also motivated students to strengthen their fundamentals, acquire practical skills and prepare themselves for careers in core chemical engineering and allied industries.

	NANDHA ENGINEERING COLLEGE (Autonomous) ERODE - 638 052 INTERNAL QUALITY ASSURANCE CELL
	LIST OF MEMBERS ATTENDED THE EVENT
	Department of Chemical Engineering

Title of the Event	FROM CLASSROOM TO CHEMICAL PLANT: INDUSTRY INSIGHTS, PRODUCTION PRACTICES AND CAREER OPPORTUNITIES
Date and Time	02.09.2026 & 10.30 am to 04.30 pm
Location of the Event	BLOCK 9, CC-16, NANDHA ENGINEERING COLLEGE

S.No	Register Number	Name	Signature
1.	732224CHL01	K. Dhaashan	K. Dhaashan
2	732224CHL02	S. P. NIKIL	S. P. NIKIL
3	732224CH015	S. Khalil Ahmed	S. Khalil Ahmed
4	732224CH012	T. Jeyanth	T. Jeyanth
5	732224CH023	B. Seethumadhavan	B. Seethumadhavan
6)	732224CH019	S. Prem Kumar	S. Prem Kumar
7)	732224CH008	P. Dinesh Kumar	P. Dinesh Kumar
8)	732224CH005	E. DHIVAKAR	E. DHIVAKAR
9)	V. kousika	732224CH016	V. kousika
10)	C. Rethamya	732224CH021	C. Rethamya
11)	P. Priya Lakshmi	732224CH020	P. Priya Lakshmi
12)	732224CH010	S. Haribhaskar Sankaranarayanan	S. Haribhaskar Sankaranarayanan
12)	732224CH014	P. Karanah	P. Karanah
14)	732224CH006	S. Devi and Virend	S. Devi and Virend
15)	732224CH007	K. S. Prem	K. S. Prem
16)	732224CH017	A. LOKITH	A. LOKITH
17	732224CH104	JARANSEI. T	J. Jaransei
18	732224CH007	A. DINESH KUMAR	A. DINESH KUMAR
19	732224CH008	P. Dinesh Kumar	P. Dinesh Kumar

20	732224 CH004	S. Devadharshini	S. Balakrishnan
21	732224 CH009	N. Divya Shree	N. Divya
22	732224 CH025	G. Lakshmi	G. Lakshmi
24	732224 CH003	K. Chandhana	K. Chandhana
25	732224 CH001	R. Boopesh	R. Boopesh
26	732224 CH022	S. Rukman	S. Rukman
27	732224 CH013	D. Joe Preethin	D. Joe Preethin
28	28CH006	L. Joossac	L. Joossac
29	28CH010	P. Lathika Ramani	P. Lathika Ramani
30	23CH013	D. Megala	D. Megala
31	23CH023	P. R. Sridharshini	P. R. Sridharshini
32	23CH028	R. Varan	R. Varan
33	23CH019	D. Rigam	D. Rigam
34	2225CH008	M. Dhanya	M. Dhanya
35	2225CH024	J. Soundarya	J. Soundarya
36	2225CH010	R. Hemalatha	R. Hemalatha
37	2225CH018	M. Nithila	M. Nithila
38	2225CH009	S. Ganga	S. Ganga
39	2225CH014	V. Tejalpa	V. Tejalpa
40	2225CH006	M. Dharsini	M. Dharsini
41	2225CH025	B. Sanyas	B. Sanyas
42	2225CH013	P. James Dettayal	P. James Dettayal
43	2225CH028	G. Himelini	G. Himelini
44	2225CH023	E. SHIVANI	E. SHIVANI
45	2225CH005	R. Dhyan	R. Dhyan


 Event Coordinator


 HOD/CHEM

Event flyer:



NANDHA

Engineering College (Autonomous)

(Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi, Accredited by NAAC with A+ Grade)
Erode - 638 052, Tamil Nadu.



DEPARTMENT OF CHEMICAL ENGINEERING & IICHE- NEC STUDENT CHAPTER, ERODE Organizes Alumni interaction

on
**From Classroom to Chemical Plant:
Industry Insights, Production Practices
and Career Opportunities**



SEPT
02
2026



9.30 AM - 4.30 PM



Block 9
CC Lab

Speaker

Mr. SUGIESHIVASHANMUGAM A R

Chemical Engineer - Production
Chemplast Sanmar Limited
Mettur, Tamilnadu

Coordinator

Dr.p. Shanmugam
Prof./Chemical

Convenor

Dr. D. Revathi
ASP & Head

Principal

Dr. U. S. Ragupathy

Program Glimpses



P. Shanmugam
8/9/2026
Alumni Coordinator/ Chemical
(Dr. P. Shanmugam)

P. Shanmugam
8/9/2026
HoD/Chem

P. Shanmugam
8/9/2026
Dean/ICAA



**NANDHA ENGINEERING COLLEGE, (Autonomous),
Erode-52**

Department of Chemical Engineering

ALUMNI INTERACTION

Alumni Interaction in Freshers Day Function held on 02.09.2026 at NEC Auditorium.




Alumni Coordinator/ Chemical
(Dr. P. Shanmugan)


HOD/Chem


Dean/ICAA