

**DEPARTMENT OF CHEMICAL ENGINEERING**

# **CHEMTECH**

**SEM-II**

**Year 2021-22**

## **INSIDE THIS**

### **ISSUE:**

Chemical Engineering  
Updates

Technical Event

FDP/Seminar/Workshop  
Attended/Faculty Awards

Industrial Visit

Guest Lecture /  
Workshops Conducted



## **Vision**

To impart quality education to produce Competent Chemical Engineers

## **Mission**

1. To create an effective atmosphere for academic excellence
2. Impart quality education in basic and applied areas of Chemical Engineering
3. Enable students to explore knowledge through creative learning by industry institution collaboration
4. Inculcate values of leadership, teamwork and ethics

## **About Department**

It is a great pleasure to welcome you to the Department of Chemical Engineering at Dr. D Y Patil Institute of Engineering and Management and Research. The Department of Chemical Engineering was started in the year 2012 with an intake of 60 students. The Chemical Engineering Department is proud to have a team of energetic and hardworking staff and we are blessed to have among the finest and talented students admitted into our department recognized for high-quality academic programmes and excellence of its motivated faculty. We are committed to give our students an environment where they can develop critical thinking and problem-solving skills as they advance through the programme. In addition to classroom teaching, the students are guided and motivated to practically implement the principles learnt in classrooms through experimentations in the laboratories, which help students gain confidence and become skilled engineering professionals.

# Chemical Engineering Updates

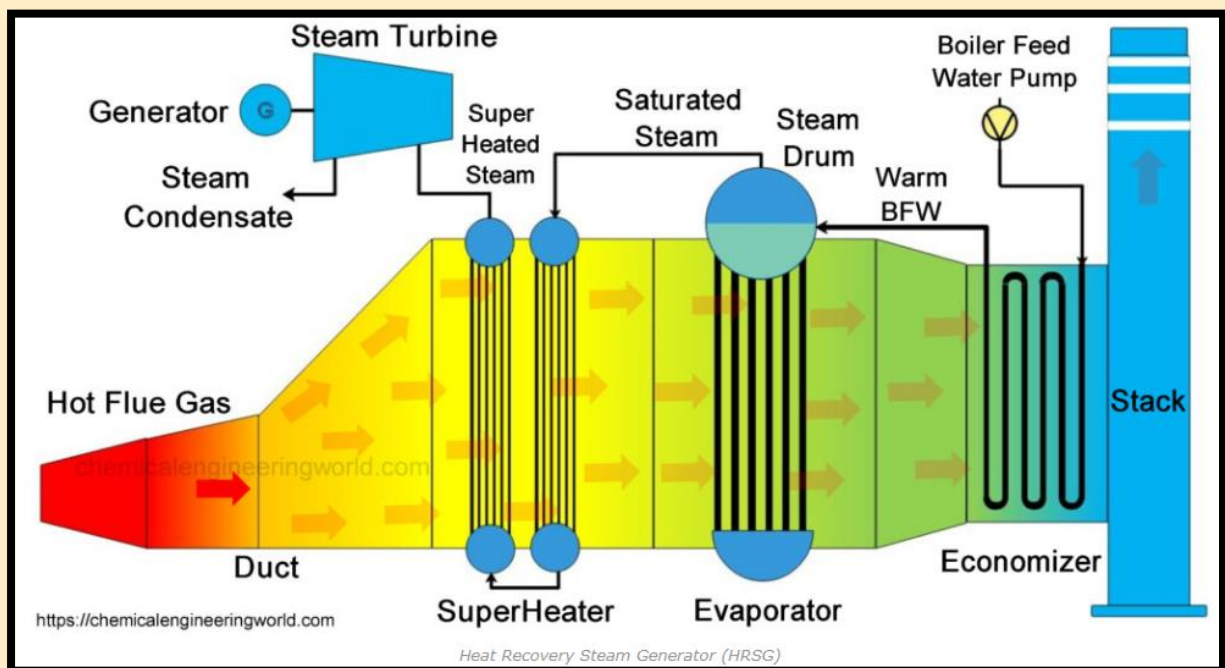
## Chemical Engineering Apps For Android

1. [Chemical Engineering](#) [by Softecks]: This app contains descriptive information about vast topics in the field of chemical engineering. This is a very general app which can be used by all chemical engineering students worldwide to review their knowledge about chemical engineering.
2. [Chemical Technology](#) [by Kirill Sidorov]: This app features information about myriad chemical engineering technologies such as unit operations and unit processes. It also features various basic terminologies used in the field of chemical engineering.
3. [Process Engineering Tools](#) [by Sardroid Engineers]: This app can be used for variety of process engineering calculations. It contains calculation sheets for static equipments, rotating equipments, piping systems, etc. Detailed theory and calculation of each equipment is also available.
4. [Chemical Engineering Interview Question Answers](#) [by Tech Seers Solutions]: This app contains a large collection of interview questions asked in core chemical engineering and also a good collection of general HR questions along with tips on how to approach the question.
5. [Chemical Engineering Dictionary](#) [by E-Dictionary]: This app is an online dictionary which contains all the keywords used in the field of chemical engineering. It is very handy if one wants to know the meaning of something. A search feature is also provided.
6. [Chemical Engineering Quiz](#) [by Mobilityappz]: This is a quiz app which contains multiple choice questions to test and review the knowledge of the chemical engineer. It covers all the topics in the field of chemical engineering and indexes them into various sections.
7. [ACS Mobile](#) [by American Chemical Society Pubs]: This app provides latest update on various research going on in the field of chemical engineering as soon as they are publishable.
8. [Petrochemical Engineering](#) [by Softecks]: This app covers all the fundamentals, technologies, and terminologies relates to the field of petrochemical engineering.
9. [Petroleum Engineering](#) [by Softecks]: This app covers all the fundamentals, technologies, and terminologies relates to field of petroleum engineering and refineries.
10. [Dangerous Goods Manual](#) [by Knorre]: This app contains information on classification of hazardous materials as explosives, gases, flammable materials, oxidisers, toxic substances, corrosive materials, etc. Large list of dangerous goods are listed along with their corresponding hazard number.

Source: Chemical Engineering World Magazine, Android Play Store

## II) Heat Recovery Steam Generator (HRSG)

Heat recovery steam generators are equipments which are used to extract heat from process gas or a waste gas streams and use that heat to convert liquid water into steam in order to use that steam in some other process or the HRSG is made part of a power generation unit where it uses the heat from the exhaust gases of turbines to convert liquid water into steam for use in the same power cycle. HRSG is basically a heat exchanger which has very high efficiency. A HRSG system is made up of three major components; the economizer, the evaporator and the superheater. These components are arranged accordingly on order to get a highly efficient thermal exchange system. In some applications, a selective catalyst reduction (SCR) unit is installed with the HRSG in order to reduce the nitrogen content oxide in the exhaust gases of HRSG.



### Working of HRSG

HRSG is essentially a large structure of network of pipes. The water is made to flow through the pipes and the hot gases are made to contact the pipes from the other side. The water and the hot gases are separated by the solid boundaries of the pipe material. The pipes are provided with extended fins in order to increase the effective heat transfer area.

The water is first passed through the economizer from where it passes through evaporator and then to super heater. The hot gases first come in contact with the super heater and then with evaporator and then with economizer. The temperature of the super heater section is highest in the system because it is the closest to the input of hot gases. The temperature of the economizer is the lowest among the three major components because it is farthest from the hot gases input.

The liquid water is fed in to the economizer, the function of economizer is to preheat the liquid before it passes to the evaporator section. The preheated liquid water then passes to the evaporator tubes where enough heat exchange occurs for the liquid water to get converted into steam. The steam may be saturated in nature hence it is passed to the super heater section where the temperature of steam increases so much that it becomes a superheated steam from a saturated steam. This superheated steam is then output from the HRSG system and then passed down the line to the next equipment in the process wherever it is required.

Source: Chemical Engineering World Magazine



# Event for Students

Group Discussion on **Cyber Awareness** was organized by Chemical Engineering Department on 20.04.2022

**Participants:** 10

**Coordinator:** Dr. Utkarsh Maheshwari, Ms. Asmita Patil, Ms. Priyanka Thakare



**Hackathon-** It is a great way for aspiring and experienced innovation to develop new skills.



# Students Achievements

**Abhishek Bhagat and Prasad Bhandarkar** are selecting in **Top 24 Teams in the KPIT Sparkle competition 2021-22**. The team will receive an **initial grant of Rs. 50000/-** from Gujrat Government and also invited to submit incubation documents to the COEP BHAU institute for receiving **Rs. 3.6 lakh per member**.



**DYP**  
Dr. D.Y. PATIL, PRATISHTHAN'S  
AKURDI, PUNE

**Dr. D.Y. Patil Institute of Engineering,  
Management and Research Akurdi, Pune**



**Congratulations!**

**Abhishek Bhagat**  
(BE Chemical Engg)

**Prasad Bhandarkar**  
(BE Chemical Engg)

**Manasi Vaidya**  
(BE E&TC Engg)

For selection in top 24 teams in the  
**KPIT Sparkle Competition (National Level)**  
for 2021-22 among 17000+ ideas.

Project idea is incubated at "**Icreate**" in Ahmedabad  
(a Gujarat government initiative) and will receive an  
initial grant of **Rs 50000/-**

[www.dypakurdiipune.edu.in](http://www.dypakurdiipune.edu.in) | [@dypakurdiipune](https://www.facebook.com/dypakurdiipune)




Placed students of 2021-22 with department faculty



## Student Success

DR D. Y. PATIL INSTITUTE OF ENGINEERING  
MANAGEMENT & RESEARCH,  
AKURDI, PUNE  
Institute Code : 6802

***Congratulations !***



AMAN SINGH  
-Chemical



DARSHAN SALUNKHE  
-Mechanical

For Selection as Graduate Engineer Trainee (Batch 2022) in  
**Worley**  
energy | chemicals | resources

DYP  
DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT AND RESEARCH  
AKURDI, PUNE

1800 12300 1000  
@dypakurdipune  
www.dypakurdipune.edu.in

DYP  
DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT AND RESEARCH, AKURDI, PUNE

Dr. D. Y. Patil Institute of Engineering  
Management and Research,  
Akurdi, Pune

***Congratulations!***



Mr. Amol Shinde  
(Department: Chemical Engineering)

**Qualified GATE 2022,  
AIR Rank 2434**

@dypakurdipune www.dypakurdipune.edu.in

DYP  
DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT AND RESEARCH

DR D.Y.PATIL INSTITUTE OF ENGINEERING  
MANAGEMENT & RESEARCH, AKURDI, PUNE  
Accredited By NAAC & ISO 21001:2018 Certified Institute  
( Institute Code: 6802 )  
DEPARTMENT OF CHEMICAL ENGINEERING



**Mr. Rushikesh Shevale**  
Batch of 2020-21

Got admission in University of Strathclyde, Glasgow for  
MSc in Advanced Chemical Engineering

*Congratulations on your achievements !!*

www.dypiemr.ac.in 020-27654470, +91-9284372467 @dypiemrAkurdi

DYP  
DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT AND RESEARCH, AKURDI, PUNE

DR D.Y.PATIL INSTITUTE OF ENGINEERING  
MANAGEMENT & RESEARCH, AKURDI, PUNE  
Accredited By NAAC & ISO 21001:2018 Certified Institute  
( Institute Code: 6802 )  
DEPARTMENT OF CHEMICAL ENGINEERING

***Student Achievement***



**Ms. Doha Joshi**  
RMIT University, Melbourne  
(BATCH :18-19)

Got selected as Project Coordinator in  
Morgan Projects, Brisbane, Australia

*Congratulations on your achievement!!*

www.dypiemr.ac.in 020-27654470, +91-9284372467 @dypiemrAkurdi




## Student Success

**DYP**  
DR. D. Y. PATIL  
INSTITUTE OF  
ENGINEERING,  
MANAGEMENT  
AND RESEARCH  
AKURDI, PUNE


**DR D.Y.PATIL INSTITUTE OF  
ENGINEERING MANAGEMENT  
& RESEARCH, AKURDI, PUNE**

Accredited By NAAC & ISO 21001:2018 Certified Institute  
( Institute Code: 6802 )

**DEPARTMENT OF CHEMICAL ENGINEERING**  
*Student Internship*



**Mr. Harshraj Mutha, students of BE completed  
Intership at Heubach**



[www.dypiemr.ac.in](http://www.dypiemr.ac.in) 020-27654470, +91-9284372467 @dypiemrAkurdi

**DYP**  
DR. D. Y. PATIL  
INSTITUTE OF  
ENGINEERING,  
MANAGEMENT  
AND RESEARCH  
AKURDI, PUNE

**DR D.Y.PATIL INSTITUTE OF ENGINEERING  
MANAGEMENT & RESEARCH, AKURDI, PUNE**

Accredited By NAAC & ISO 21001:2018 Certified Institute  
( Institute Code: 6802 )

**DEPARTMENT OF CHEMICAL ENGINEERING**  
**University Rankers**  
**SE Chemical (AY 2019-20)**



**Mr. Saif Alam**  
Rank 4 (CGPA 9.76)



**Mr. Pratik Mundphane**  
Rank 9 (CGPA 9.62)

*Congratulations on your achievement !!  
We are proud of you !*

[www.dypiemr.ac.in](http://www.dypiemr.ac.in) 020-27654470, +91-9284372467 @dypiemrAkurdi

**DYP**  
DR. D. Y. PATIL  
INSTITUTE OF  
ENGINEERING,  
MANAGEMENT  
AND RESEARCH  
AKURDI, PUNE

**DR D.Y.PATIL INSTITUTE OF  
ENGINEERING MANAGEMENT  
& RESEARCH, AKURDI, PUNE**

Accredited By NAAC & ISO 21001:2018 Certified Institute  
( Institute Code: 6802 )

**DEPARTMENT OF CHEMICAL ENGINEERING**  
Got placed in



*Congratulations  
on your  
achievement !!*

**Mr. Shubham  
Sonawane**  
Batch : 2020-21

[www.dypiemr.ac.in](http://www.dypiemr.ac.in) 020-27654470, +91-9284372467 @dypiemrAkurdi

**DYP**  
DR. D. Y. PATIL  
INSTITUTE OF  
ENGINEERING,  
MANAGEMENT  
AND RESEARCH

**DR D.Y.PATIL INSTITUTE OF ENGINEERING  
MANAGEMENT & RESEARCH, AKURDI, PUNE**

Accredited By NAAC & ISO 21001:2018 Certified Institute  
( Institute Code: 6802 )

**DEPARTMENT OF CHEMICAL ENGINEERING**  
**2022 BATCH STUDENT PLACED IN Cognizant**



**Ms. Sejal Ahuja**



**Ms. Tanashree Paraye**



**Mr. Omkarnath Panage**



**Mr. Pratik Mundphane**



**Mr. Anikesh Ghurde**



**Mr. Saurabh Patil**



**Mr. Hritik Kale**



**Mr. Rahul Gaikwad**



**Ms. Shruti Kale**



**Mr. Saish Pawar**

*Congratulations  
on your achievement !!*

[www.dypiemr.ac.in](http://www.dypiemr.ac.in) 020-27654470, +91-9284372467 @dypiemrAkurdi

# Induction Program



## Faculty Achievements

### Faculty Development Programme Attended /Workshop/Seminar

- Faculties from Department of chemical engineering attended 18 Faculty development programmes
- Faculties from Department of chemical engineering attended 5 Workshops

### Mr. D. P. Despande received Best Presentation Award

The screenshot shows a Zoom meeting interface. On the left, a presentation slide titled "BEST PRESENTATION (Faculty)" is displayed. The slide features two award recipients, each with a trophy icon and a starburst graphic. The first recipient is Mr. Dhundiraj P. Deshpande, with the topic "Optimization of Reaction Parameter Using Ultrasonication" and affiliation "AP - Chemical Engineering, DYPIEMR, Akurdi, Sector 29, Akurdi, Pune, Maharashtra." The second recipient is Mr. Susanta Saha (SS), with the topic "A critical analysis on food preferences in Mid-day lunch for the students and staff of Engineering Colleges in Rural area of West Bengal." and affiliation "AP - Basic Science and Humanities- Mathematics, Techno Engineering College Banpur".

On the right side of the screenshot, a grid of participants is visible. The participants listed are: Sona Solanki, S Prabakar, Zaid Ahmed, Dr Alla srivani Ph..., ROSHNI CHAKRA..., Somaditya Roy, TECB CSE, 52 others, and You. The Zoom interface includes a bottom toolbar with icons for mute, video, chat, and other controls.



**Dr. Shailesh Ghodke, HoD, Chemical Engineering Chaired the Technical session at National Conference, LIT, Nagpur**

**LAXMINARAYAN INSTITUTE OF TECHNOLOGY**  
RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR  
REACT-2022

<ul style="list-style-type: none"> <li> <span style="color: #e67e22;">■</span> <b>Dr. R. B. Mankar</b>  <small>Chairman</small>  <small>8427085110</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Dr. R. R. Birmod</b>  <small>Secretary</small>  <small>7020609020</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Dr. G. P. Lakhawat</b>  <small>Treasurer</small>  <small>9637941779</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Karan Wafanwar</b>  <small>General Secretary</small>  <small>8150888888</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Y. Shivashish Rao</b>  <small>Joint Secretary</small>  <small>9498311594</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Toshi Meshram</b>  <small>Joint Secretary</small>  <small>7083812872</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Arpan Chikhale</b>  <small>Treasurer</small>  <small>8563794220</small> </li> </ul>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; vertical-align: top;"> <ul style="list-style-type: none"> <li> <span style="color: #e67e22;">■</span> <b>Dr. S. A. Bhanvase</b>  <small>Coordinator</small>  <small>8820837488</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Dr. J. B. Modak</b>  <small>Coordinator</small>  <small>84200112978</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Dr. V. G. Lade</b>  <small>Governor</small>  <small>8712488555</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Dr. J. B. Bhasarkar</b>  <small>Governor</small>  <small>8884345486</small> </li> </ul> </td> <td style="width: 80%; vertical-align: top;"> <p style="text-align: right;">Date: 17/04/2022</p> <p><b>To,</b>  <b>Dr. Shailesh Ghodke</b>                      Associate Professor, Department of Chemical Engineering,                      Dr. D.Y. Patil Institute of Engineering, management and research,                      Pune</p> <p><b>Subject:</b> Thank you for your presence as a Chair for Paper Presentation in National Conference REACT-2022 at LIT, Nagpur</p> <p>Respected Sir,                      On behalf of the Organizing Committee, we would like to express our sincere thanks for your enthusiastic presence during REACT 2022 as a Chair for Paper Presentation in National Conference on Recent Trends in Chemical Engineering and Technology which was held in virtual mode at Laxminarayan Institute of Technology, Nagpur, 16th and 17th April 2022. Because of your presence and support, the conference has achieved phenomenal success.</p> <p>The conference was an overwhelming success, attracting around 350 delegates, speakers and sponsors from different part of the country and provided great intellectual and technical interaction amongst faculty, industrialists, researchers and students.</p> <p>Once again, we would like to convey our deepest gratitude for your presence and wish you good health and happiness in the years ahead. We expect same kind of cooperation in our future endeavours.</p> <p>Thanking you</p> <p>Yours Faithfully</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">   <b>Dr. R. B. Mankar</b>  <small>Chairman</small> </div> <div style="text-align: center;">   <b>Dr. V. G. Lade and Dr. J. B. Bhasarkar</b>  <small>Convener</small> </div> </div> </td> </tr> </table>	<ul style="list-style-type: none"> <li> <span style="color: #e67e22;">■</span> <b>Dr. S. A. Bhanvase</b>  <small>Coordinator</small>  <small>8820837488</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Dr. J. B. Modak</b>  <small>Coordinator</small>  <small>84200112978</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Dr. V. G. Lade</b>  <small>Governor</small>  <small>8712488555</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Dr. J. B. Bhasarkar</b>  <small>Governor</small>  <small>8884345486</small> </li> </ul>	<p style="text-align: right;">Date: 17/04/2022</p> <p><b>To,</b>  <b>Dr. Shailesh Ghodke</b>                      Associate Professor, Department of Chemical Engineering,                      Dr. D.Y. Patil Institute of Engineering, management and research,                      Pune</p> <p><b>Subject:</b> Thank you for your presence as a Chair for Paper Presentation in National Conference REACT-2022 at LIT, Nagpur</p> <p>Respected Sir,                      On behalf of the Organizing Committee, we would like to express our sincere thanks for your enthusiastic presence during REACT 2022 as a Chair for Paper Presentation in National Conference on Recent Trends in Chemical Engineering and Technology which was held in virtual mode at Laxminarayan Institute of Technology, Nagpur, 16th and 17th April 2022. Because of your presence and support, the conference has achieved phenomenal success.</p> <p>The conference was an overwhelming success, attracting around 350 delegates, speakers and sponsors from different part of the country and provided great intellectual and technical interaction amongst faculty, industrialists, researchers and students.</p> <p>Once again, we would like to convey our deepest gratitude for your presence and wish you good health and happiness in the years ahead. We expect same kind of cooperation in our future endeavours.</p> <p>Thanking you</p> <p>Yours Faithfully</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">   <b>Dr. R. B. Mankar</b>  <small>Chairman</small> </div> <div style="text-align: center;">   <b>Dr. V. G. Lade and Dr. J. B. Bhasarkar</b>  <small>Convener</small> </div> </div>
<ul style="list-style-type: none"> <li> <span style="color: #e67e22;">■</span> <b>Dr. S. A. Bhanvase</b>  <small>Coordinator</small>  <small>8820837488</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Dr. J. B. Modak</b>  <small>Coordinator</small>  <small>84200112978</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Dr. V. G. Lade</b>  <small>Governor</small>  <small>8712488555</small> </li> <li> <span style="color: #e67e22;">■</span> <b>Dr. J. B. Bhasarkar</b>  <small>Governor</small>  <small>8884345486</small> </li> </ul>	<p style="text-align: right;">Date: 17/04/2022</p> <p><b>To,</b>  <b>Dr. Shailesh Ghodke</b>                      Associate Professor, Department of Chemical Engineering,                      Dr. D.Y. Patil Institute of Engineering, management and research,                      Pune</p> <p><b>Subject:</b> Thank you for your presence as a Chair for Paper Presentation in National Conference REACT-2022 at LIT, Nagpur</p> <p>Respected Sir,                      On behalf of the Organizing Committee, we would like to express our sincere thanks for your enthusiastic presence during REACT 2022 as a Chair for Paper Presentation in National Conference on Recent Trends in Chemical Engineering and Technology which was held in virtual mode at Laxminarayan Institute of Technology, Nagpur, 16th and 17th April 2022. Because of your presence and support, the conference has achieved phenomenal success.</p> <p>The conference was an overwhelming success, attracting around 350 delegates, speakers and sponsors from different part of the country and provided great intellectual and technical interaction amongst faculty, industrialists, researchers and students.</p> <p>Once again, we would like to convey our deepest gratitude for your presence and wish you good health and happiness in the years ahead. We expect same kind of cooperation in our future endeavours.</p> <p>Thanking you</p> <p>Yours Faithfully</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">   <b>Dr. R. B. Mankar</b>  <small>Chairman</small> </div> <div style="text-align: center;">   <b>Dr. V. G. Lade and Dr. J. B. Bhasarkar</b>  <small>Convener</small> </div> </div>		

Address: Director, Laxminarayan Institute of Technology, Nagpur-440033  
 Email id : reactlitnagpur@nitk.com      website: www.react2022.ssoconsultancy.online

**Dr. Shailesh Ghodke, HoD, Chemical Engineering Chaired the Technical session at International Conference, ACMS, IChE**

Since-1947

**Platinum Jubilee Celebration of**  
**Indian Institute of Chemical Engineers**

International Conference on Advances in Chemical & Material Sciences

ACMS-2022

April 14-16, 2022 at IIT Kolkata

Organised by In Association with

Certificate

This is to certify that *Prof. Dr. Shailesh Ghodke*  
**DR. SHAILESH GHODKE**  
 DR. D. Y. PATIL INSTITUTE OF ENGINEERING MANAGEMENT AND RESEARCH  
 has Chaired a technical session in ACMS-2022, held at Heritage  
 Institute of Technology, Kolkata, during April 14-16, 2022.

Title: na

Co-authored by na

**Shri D. M. Butale**  
President, IChE

**Shri Praveen Saxena**  
Honorary Registrar, IChE

**Dr. Avijit Ghosh**  
Organizing Secretary, ACMS-2022  
 and Assistant Professor  
 Heritage Institute of Technology

Certificate ID - IICHE/2022/ACMS2022/8816