



Yash Virendra Thakare

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in <https://www.linkedin.com/in/yash-thakare-a194a5146>

OBJECTIVE

Dedicated and hardworking individual with a postgraduate degree in Chemical engineering seeking a role which allows me to continue learning and perfecting my skills as I provide high-quality work, and encourages me to flourish as a good chemical engineer.

EXPERIENCE

14/02/2026 - Till date

Assistant Professor

Gharda Institute of Technology, Lavel

13/07/2022 - 13/02/2026

Assistant Professor and Training & Placement Coordinator

Sinhgad College of Engineering, Pune

Delivered undergraduate courses and Lab Sessions in Chemical Engineering; guided final-year projects; contributed to NBA based academic documentation and departmental coordination; actively coordinated numerous Training and Placement activities and organized technical events and students engagement initiatives to enhance industry readiness and professional skills.

16/08/2021 - 27/05/2022

HSE Trainee

Zeppelin Systems India Pvt Ltd, Vadodara

Safety management studies like HAZOP, QRA, HAZID, SIL, PSSR, ERDMP, EIA, EMP, HAC, F&G mapping and Dispersion Modelling for various industries including Chemical, petrochemical, Fertilizer, LPG/LNG distribution pipelines & stations and other facilities.

EDUCATION

- **School of Technology, PDEU, Gandhinagar**
2022
M.Tech in Chemical Engineering
9.59 CGPA
- **Dr. D Y Patil Institute of Engineering, Management and Research, Akurdi, Pune**
2020
B.E in Chemical Engineering
8.78 CGPA
- **Brilliant Junior Kalasala, Meerpet, Hyderabad**
2016
Higher Secondary
96.60%
- **Yashvantrao Chavan English Highschool, Mangrulpur**
2014
Matriculation
95.20%

TECHNICAL SKILLS

- DNV'S PHAST and Safeti
- PHA Pro 8
- Aspen Plus
- DWSIM
- UNISIM
- Microsoft Office

PATENT

- **MICROBIAL FUEL CELL BASED WASTEWATER TREATMENT UNIT**

The novel continuous microbial fuel cell (MFC)-based wastewater treatment unit is designed with an advanced wastewater treatment system.

PROJECTS

- **Low cost nanoadsorbents for removal of heavy metal ions from wastewater (FUNDED PROJECT)**

Project sponsored by ORSP cell, PDEU (INR 1.55 L).

Low cost nanoadsorbents have been synthesized for making water potable by removal of heavy metal ions.

- **Optimization of MEK plant using UNISIM**

The work deals with the design and optimization of the plant for the production of MEK.

INDUSTRIAL EXPOSURE

- Internship program at Equinox Software and Services Pvt. Ltd. for the period of one month from 20/06/2019 to 19/07/2019
- Internship program at Rashtriya Chemicals and Fertilizers for the period of 6 days from 02/07/2018 to 07/07/2018.

PUBLICATIONS

- **Nanofluid-based Drug Delivery Systems**

Chapter 13, published in the book entitled "Applications of Nanofluids in Chemical and Bio-medical Process Industry" by Elsevier.

DOI: 10.1016/B978-0-323-90564-0.00005-2

- **A comprehensive review on sustainable greener nanoparticles for efficient dye degradation**

A review paper published in "Environmental Science and Pollution Research (ESPR)". Journal I.F. 4.223

DOI: 10.1007/s11356-022-20127-y

- **Emerging Technologies in Conventional and Nonconventional Energy Sources**

Chapter 1, published in the book entitled "Emerging Technologies for Sustainable and Smart Energy" by CRC Press, Taylor and Francis.

DOI: 10.1201/b23013-1

- **Waste Lignin and Metal Oxides for Altering the Physical and Chemical Properties of Bitumen**

Research paper published "Springer Proceedings in Materials, Vol. 15" at International Symposium on Materials of the Millennium: Emerging Trends and Future Prospects (MMETFP-2021), Gandhinagar.

DOI: 10.1007/978-981-19-2572-6_32

- **Environmental Benign Green Materials, Synthesis and Applications**

Chapter published in the book entitled "Encyclopedia of Green Materials" by Springer Nature Singapore Pte Ltd

DOI: 10.1007/978-981-16-4921-9_173-1

- **Sustainable Drug Delivery Systems Through Green Nanotechnology**

Chapter published in the book entitled "Encyclopedia of Green Materials" by Springer Nature Singapore Pte Ltd

DOI: 10.1007/978-981-16-4921-9_146-1

- **FTIR spectroscopy and microscopy in biomedical nanotechnology**

Chapter published in the book entitled "Analytical Techniques for Biomedical Nanotechnology" by IOP Publishing Ltd

DOI: 10.1088/978-0-7503-3379-5ch4

EXTRA CURRICULAR ACTIVITIES

- Technical Secretary for Academic Year 2019-20 at DYPIEMR, Pune
- Department Secretary for Department of Chemical Engineering, DYPIEMR, Pune
- Magazine Head for Hindi team in ADVAITAM at DYPIEMR, Pune
- Lead and volunteer at various technical and cultural events at DYPIEMR, Pune

ACHIEVEMENTS & AWARDS

- 1st prize for Poster Presentation at "Emerging Trends in Nanotechnology & Biotechnology", Jaipur.
- 3rd prize for poster presentation at International conference on Chemical Industry, PDPU, Gandhinagar
- 1st prize for poster presentation at departmental event, DYPIEMR, Pune
- 3rd prize for industrial Defined Problem IDP, at departmental event, DYPIEMR, Pune

INTERESTS

- Nanotechnology
- Wastewater treatment
- Industrial Safety
- Drug Delivery
- Writing

LANGUAGES

- English
- Marathi
- Hindi

SKILLS

- Teaching
- Leadership
- Team Management
- Decision Making
- Event Management

PERSONAL PROFILE

- Date of Birth: 23/09/1998
- Marital status: Unmarried
- Father's name: Shri Virendra Thakare
- Permanent address: At. Dhanora (BK), Po. Deurwada, Tq. Digras, Dist. Yavatmal, State Maharashtra
- Nationality: Indian
- Passport: U3625604 (valid till 21/01/2031)

REFERENCE

- **Dr. Ashish Unnarkat - School of Technology, Pandit Deendayal Energy University, Gandhinagar**
Head, Department of Chemical Engineering
Ashish.Unnarkat@sot.pdpu.ac.in
9913178309
- **Dr. Swapnil Dharaskar - Pandit Deendayal Energy University, Gandhinagar**
Dean of Placements
Swapnil.Dharaskar@sot.pdpu.ac.in
7600924111

DECLARATION

- I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Table 1 Partial assignments list for basic studies and as scribe

Sr. No.	Name of Company	Project Name
1	Reliance Industry Ltd / Gujarat Chemical Port Ltd	Styrene Storage, Pumping And Chilling System
2	Reliance Industry Ltd / Gujarat Chemical Port Ltd	Fire Protection System
3	Indian Oil Corporation Ltd. / Thermosystems Pvt. Ltd	Fire Water System Package
4	Indian Oil Corporation Ltd. / Ion Exchange (India) Ltd	Effluent Treatment Plant of Paradip Refinery
5	Aditya Birla Grasim Industries Ltd	ETP / RO Expansion Plant
6	VA Tech Wabag Limited, Amur Gas Chemical Complex, Russia	Waste Water Treatment Plant (WWTP)
7	Gujarat State Fertilizers & Chemicals Ltd	New 400 MTPD AS-IV Plant
8	Gujarat Alkalies And Chemicals Ltd	Chlorine Evaporator
9	Bostik India Pvt. Ltd	SB Relocation Plant
10	Bostik India Pvt. Ltd	Pilot Plant
11	Transpek Industry Ltd	Acid Chloride Plant
12	Transpek Industry Ltd	Isobutyryl Chloride Plant
13	Transpek Industry Ltd	Acid Chloride Plant ACL-5
14	Transpek Industry Ltd	TC R5 Plant
15	Gujarat Gas Ltd	Various online and Daughter Booster Compressors

Table 2 Partial assignments list for QRA Study

Sr. No.	Name of Company	Project Name
1	Indian Oil Corporation Ltd. / Thyssenkrupp Industries India Pvt. Ltd.	QRA Study of various units at Panipat Refinery. [Fluidized Catalytic Cracking (FCC) unit, Motor Spirit (MS) block, Sulphur Recovery (SR) LPG, Gas Splitter Unit (GSU)]
2	Indian Oil Corporation Ltd. / Thyssenkrupp Industries India Pvt. Ltd.	QRA Study at petrochemical complex of Panipat Refinery. [Catalytic Dewaxing unit P-25 expansion project, Polypropylene Process unit]
3	Oil & Natural Gas Corporation Ltd (ONGC)	QRA Study of C2 - C3 PLANT AT DAHEJ
4	Indian Oil Corporation Ltd. / Ion Exchange (India) Ltd	QRA Study of Effluent Treatment Plant Paradip Refinery
5	Vadodara Gas Ltd (VGL)	QRA Study of Various Daughter Booster stations