Dr. Utkarsh Maheshwari

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Career Summary:

- Teaching experience of **16+ years** at graduate and postgraduate level of Chemical and Petroleum Engineering curriculum.
- Working as **Associate Professor** at Department of Chemical Engineering, School of Engineering, Management and Research, D. Y. Patil International University, Akurdi, Pune since 1st August 2024.
- **Certified Internal Auditor** for **ISO 21001:2018 Educational organizations — Management systems (EOMS)** for educational organizations.
- Awarded by **India Prime Quality Education Awards 2021** organized by FoxClues, Dailyhunt and The Chronicle Journal in recognition for his enduring commitments to exceptional contribution towards education.
- Presently serving as **Honorary Chairman** of the Indian Institute of Chemical Engineers (IICHE), Pune Regional Center for 2025-27.
- Served as **National Council Member** of the Indian Institute of Chemical Engineers (IICHE) for 2023-25.
- Elected as **Honorary Controller of Examination** of IIChE for the year 2024, 2025.
- Served as **Honorary Secretary** of the Indian Institute of Chemical Engineers (IICHE), Pune Regional Center for 2021-25.
- **Headed**, Department of Chemical Engineering at Dr. D. Y. Patil Institute of Engineering, Management & Research, Akurdi, Pune for 1st December 2016 to 8th April 2018.
- Doctorate (Ph.D.): Removal of Metal Ions from Wastewater using Adsorption- Experimental and Theoretical Studies; Masters (M.E.) in Chemical Engineering; Bachelors (B.Tech.) in Petrochemical Engineering.
- **Technical and Management Consultant** for a thermoplastic paint manufacturing company for a duration of November 2015 - November 2016 and August 2022.

- **Member of 17 International Associations** and **Reviewer for 28 journals** of International repute.
- Published **3 Book Chapter**, **23 Journal Papers** and **130+ Conference Papers** individually and collectively with project students and colleagues.

Educational Qualifications:

Degree	University/Institute	Year	Subject	Class
Ph.D.*	BITS, Pilani	2015	Heavy Metal Removal	-
M.E	BITS, Pilani	2009	Chemical Engineering	Ist
B.E.	Z.H.College of Engineering and Technology, Aligarh	2007	Petrochemical Engineering	Ist

* Field of research: Removal of heavy metals using adsorption

Continuous Learning : 147 Nos.

Certification Courses : 89 Nos.

- Completed in total **70 courses** from **26 Universities and Network** using Coursera Platform
- Completed **4 courses** from **4 University and Network** using EDX platform
- Completed **7 courses** with Elite tag from **4 IITs** using NPTEL/Swayam Platform
- Completed **4 courses** on Sustainability from **Inst. of Chemical Engineers (IChemE), UK**
- Completed **2 courses** from **Shaw Academy**, London
- "Basic Photography Foundation" course from **Indian Institute of Photography**
- Proficiency in Languages (French) from the **Aligarh Muslim University**

Quality Improvement Programs (QIP) : 01 No.
Faculty Development Programme(FDP): 46 Nos.
ShortTerm Training Programme (STTP): 02 No.
Workshop : 07 Nos.
Others : 02 Nos.

Project Titles

PhD Thesis

Removal of Metal Ions from Wastewater using Adsorption: Experimental and Theoretical Studies

M.E

Study of Pressure Swing Adsorption Process for the Production of Hydrogen.

B.Tech.

Techno-Economic Feasibility Study on the Manufacture of Polypropylene from Propylene

Teaching Experience: (≈ 16+ yrs)

- Presently working as **Associate Professor** at Department of Chemical Engineering, School of Engineering, Management and Research, **D. Y. Patil International University, Akurdi, Pune** since 1st August 2024 (≈ 6 yrs 3+ months)
- Worked as **Associate Professor** at the Department of Chemical Engineering, **D. Y. Patil Institute of Engineering, Management & Research, Akurdi, Pune** from 1st August 2020 to 31st July 2024 (3 yrs)
- Worked as **Assistant Professor** at the Department of Chemical Engineering, **Dr. D. Y. Patil Institute of Engineering, Management & Research, Akurdi, Pune** since 21st November 2016 till 31st July 2020 (≈ 3 yrs 8 months).
- Worked as **Lecturer** at the Department of Chemical Engineering, **Birla Institute of Technology and Science (BITS)-Pilani** from 22nd October 2009 to 17th July 2016 (≈ 6 yrs 9 mnths)

Consultancy Experience: 1 year

- Worked as a Technical Consultant to "Amitek Infra Pvt. Ltd.", Jaipur from November 2015 to November 2016 (≈ 1 yr)

Industrial Experience

- Visited Water Treatment Plant at **PCMC Water Treatment Plant**, Pimpri Chinchwad, Pune on 13th August 2024.
- Visit to the Water Treatment Plant at **Harduaganj Thermal Power Station**, Aligarh, U.P. on 12th July 2015
- Visit to **Indian Oil Corporation Ltd Research & Development Ceter**, Faridabad on 17th October 2013
- Visit to **Indian Oil Corporation Ltd Refinery, Panipat** on 17th September 2011
- Visit to **Indian Oil Corporation Ltd Refinery, Panipat** as a part of 6th Summer School Programme on "Petroleum Refining & Petrochemicals" held at Indian Oil Institute of Petroleum Management, Gurgaon organized by Petrotech society, New Delhi in collaboration with Indian Oil Corporation Ltd-R&D and IIPM from 6th to 10th June 2011
- Six months industrial training as a part of Practice School in **British Oxygen Company**, **Kolkata** from January 2009 to June 2009. The projects handled are:
    - Cryogenic Nitrogen plant for Hindustan Petroleum Corporation Limited, Mumbai for a duration of 2 months (From 9th April 2009 to 8th June 2009)
    - Hydrogen PSA project for Bongaigaon Refineries and Petrochemical Limited, Assam for a duration of 3 months (9th January 2009 to 8th April 2009)

      As the company is an EPC firm, my work was to co-ordinate between the vendors and timely deliver of the vessels and other accessories for completion of the project on time. During my Cryogenic projects, I was also involved in the account settlement of the projects.

- One month industrial training in Polypropylene plant of **Reliance Industries Limited, Hazira** Complex in June 2006.

  I have done my internship in the Polypropylene section of the Reliance Industries Limited, Hazria section. There I had learned the process and the various operations involved in the production of polymers.

Academic and Administrative Responsibilities (In and Outside Institute): 69

National and International Associations : 45 Nos.

M.E. Dissertation/B.E. Thesis Supervised : 49

Academic and Research Projects Supervised : 100+ Nos.

Courses Taught

Introduction to Chemical Engineering, Technical Management and Commercialization, Separation process II/ Selected Chemical Engineering Operations; Thermodynamics; Petroleum Reservoir Engineering; Petroleum Downstream Processing; Petroleum Refinery Engineering; Chemical Engineering Thermodynamics; Environmental Pollution Control; Kinetics and Reactor Design; Process Plant Safety & Environment; Chemical Engineering Thermodynamics; Fertilizer Technology; Energy Management; Process Design Principles I; Transport Phenomena; Process Dynamics and Control; Fluid Mechanics; Chemical Process Technology; Petrochemical Engineering, Heat Transfer, Chemical Process Calculations,Process Instrumentation and Control

Research Interest:

Removal of Pollutants Using Adsorption; Environmental Engineering; Petrochemical Technology; Residue Upgradation; Refining; Enhanced Oil Recovery; Modeling and Simulation; Optimization; Alternate energy sources; Biochemical engineering

Funded Research Project:

Title	**:** Recovery of Multiple Metal lons from Industrial Wastewater using Adsorption
Amount	**:** 2.00 Lakhs
Funding Agency	**:** UGC, New Delhi
Duration	**:** 2013-2015

Analytical Equipments Familiar With:

Atomic Absorption Spectrophotometer, UV-VIS Spectrophotometer, Volume Trace Analyzer, FTIR Spectrophotometer and others

Softwares Familiar with

Aspen Plus, Unisim, Fluent, Microsoft Office, Matlab, Lightroom, Adobe Illustrator, Adobe Photoshop

Professional recognition, awards, fellowships received: 20

1. Organized **ACMS 2026** International conference as **Convenor**, Chaired the sessions nd participated in it from 12th to 14th April 2026
2. Chair Session at **CHEMCON 2025** organized by Annamalai University from 27 - 30 December 2025.
3. Invited to **deliver lecture** on "**Role of Engineering Professions in attaining SDGs**" at D Y Patil College of Engineering and Technology, Kolhapur on 17th February 2026.
4. Invited to **deliver lecture** on "**Importance and Profile building**" at Department of Chemical Engineering, Sinhgad College of Engineering, Pune on 8th October 2025.
5. Invited as **Resource Person** to deliver talk on **"Innovations in Watewater treatment: Advancing towards sustainabile technologies"** on 20th August 2025 during the 5 days ISTE approved online faculty development programme on "Role of Engineering Professionals in Fulfiling Sustainable Development Goals".
6. Invited as **Guest of Honor** for the **inaugural function of the Chemical Engineering Conference PRAKALP 2025** on **21st March 2025**
7. Received **Fellowship** of **Indian Chemical Society(ICS)** in 2024 during its 100th year of existence.
8. Chaired Session at **CHEMCON 2024** organized by NIT, Jalandhar from 27 - 30 December 2024
9. Invited to **deliver lecture** on "Importance and Profile building" on 25th September 2024 at Department of Chemical Engineering, Sinhgad College of Engineering, Pune
10. Received **Fellowship** of **Indian Institute of Chemical Engineers(IIChE)** during CHEMCON 2023.
11. Recieved **Fellowship** of **Institution of Engineers (IEI)** in 2025.
12. Recieved **Fellowship** of **Indian Chemical Society (ICS)** in 2024.
13. Chaired session at **CHEMCON 2023** organized at HIT, Kolkata from 27 - 30 December 2023
14. Chaired session at **CHEMCON 2022** organized at HBTU, Kanpur from 27 - 30 December 2022
15. Chaired session at **ACMS 2022** organized by IIChE at HIT Kolkata from 14th to 16th April 2022.
16. Awarded by **India Prime Quality Education Awards 2021** organized by FoxClues, Dailyhunt and The Chronicle Journal.
17. Invited as **Resource Person at TEQIP-III** sponsored one week workshop on "Refresher Course in Chemical Engineering and Technology" 2019 at Padmabhooshan Vasantraodada Patil Institute of Technology (PVPIT), Budhgaon, Sangli during 18th June-22nd June 2019
18. Felicitated by **H.E. Smt. Pratibha Patil mam, Ex-President, India** for working in the field of Organizing Blood Donation Camps on 13th May 2018
19. Invited as **Judge** for 'Prakalp', 13th National Chemical Engineering Students Conference, organized by MIT Academy of Engineering, Pune along with IIChE, Pune regional Center on 8th September 2017

20. Invited as **Judge** for Promising and Innovative Young Chemical Engineer (PIYCE-2017), organised by AISSMS College of Engineering & IIChE Pune Regional Center on 26th March 2017
21. **Chaired** a session on "New process technologies & Adsorption technology" held during the 67th Annual Session of IIChE (CHEMCON-2014) and Indo-Japanese Symposium, jointly organized by Chandigarh Regional Center, IIChE and Dr, SSB University Institute of Chemical Engineering & Technology, Chandigarh, 27th to 30th December 2014
22. **Delivered** a lecture on "The Importance of Water" at Regional Science Congress, 2014 organized by Jawahar Navodaya Vidyalaya, Kajra, Jhunjhunu on 11th November, 2014
23. **Awarded** travel grant from Centre for International Co-operation in Science (CICS) to attend 2013 AIChE Annual Meeting held at Hilton San Francisco Union Square, San Francisco, CA during 3rd to 8th November 2013
24. **Chaired** a session in 5th International Congress of Chemistry and Environment (ICCE-2011), Glory Beach Resort, Port Dickson, Negeri Senbilan, Malaysia, 27th to 29th May 2011
25. Awarded **GATE scholarship** during M.E. from 2007-2009

List of publications : 131

Book Chapter Publication	:	**03**
Journal publications	:	**23**
Related to my Ph.D. work	:	07
Others	:	16
Conference Proceedings	:	**130**
Related to my Ph.D. work	:	12
Students project supervised	:	118
Others	:	**03**

In the area of Reservoir Engineering, Simulation & Optimization of Petrochemical Processes using Aspen Plus, Enhanced Oil Recovery Techniques, Alternative Energy Sources, etc.

Patents : 03

- Dr. Sangeeta Dundappa Benni, Dr. Shailesh Ghodke, **Dr. Utkarsh Maheshwari**, Dr. Vinuta Kamat, Dr. Pravin Jaysing Gorde, A Composite Electrochemical Cell Housing with Directional Ion Path Panel, Design Patent No.484578-001 dated: 20/12/2025 (Granted)
- **Utkarsh Maheshwari**, Kirti Zare, D. P. Deshpande, Pankaj Vardhe. “Spiral Finned Crystallizer for Progressive Freeze Concentration”, Application No. 201721022784A published on 21/07/2017 (Published)

- **Utkarsh Maheshwari**, Priti Phalak, Sonali Singh, Shweta Kumbhar. "Production of wine from grapes and brown rice", Application no. 201721022793A published on 21/07/2017 (Published)