

---

**Dr. Anupreet Kaur**  
**Professor,**  
**Department of Biotechnology,**  
**UIET, Panjab University, Chandigarh-160014**

anupreet\_uiet@pu.ac.in

## Academic Qualifications

- **Ph.D. in Biotechnology Engineering**  
Panjab University, Chandigarh
- **Master of Technology in Chemical Engineering**  
Panjab University, Chandigarh
- **Bachelor of Technology in Chemical Engineering**  
Panjab Technical University, Jalandhar

## Memberships of Academic Societies

Associate member of

- Indian Institute of Chemical Engineers (**IICHE**)
- Institution of Engineers India (**IEI**)
- Catalysis Society of India (**CSI**)

## Summary Statement

Dr. Kaur is having an extensive research experience in the field of environmental remediation, membrane separations, green synthesis, microbial biotransformations, stereoselective synthesis and nanobiotechnology. Additionally, she has also served as the reviewer for certain reputed journals. All in all, she is mentoring PhD students and has mentored more than 13 ME Theses. Besides, she has successfully designed and executed research projects targeting synthesis and characterization of pharmacologically important dihydropyridines and their antihypertensive activity, implementation of green synthesized nanoparticles for heavy metals/dye removal etc. Having taught a range of subjects like Bioprocess Engineering, Chemical Reaction Engineering, Bioreactor Design & Operation and Bioanalytical Techniques over 19 years at undergraduate and postgraduate levels, she has published about 40 research papers including chapters in the journals/books of repute.

Her research group represents a strong collaboration of engineering and basic sciences within the extended domain of nanotechnology. She has presented her research work at various national and international platforms and won many accolades. She is trained in Biorisk Management from *Sandia National Laboratories*, USA and also completed the Biorisk management Trainer Development Program from *Sandia National Laboratories*, USA. As a part of her professional journey, Dr. Kaur has also served as the branch coordinator from January 2021 to December 2023. She has also one international patent to her credit: for the detection of foodborne illnesses pathogens (*Salmonella*)-published 05-01-2023. In the pursuit of excellence, her research group aims to harness the potential of microalgae in wastewater treatment and more recently incorporating AI/ML techniques to further enhancing the research capabilities in biotechnology field.