

# Thapar Institute of Engineering & Technology, Patiala



## Department of Chemical Engineering

### List of Ph.D. Completed/Degree Awarded Last Five Years (2018-2023)

**\*Total PhD degree awarded since inception: 48**

S. No.	Name	Thesis title	Supervisor(s)	Year of completion
1	Ms. Harjot Kaur	Preparation and characterization of composite membranes for treatment of some wastewater	Dr. Raj Kumar Gupta, Dr. V. K. Bulasara	March, 2018
2	Mr. Nitin Goyal	Studies on removal of endocrine disrupting compounds from aqueous solutions by adsorption	Dr. Sangamitra Barman, Dr. V. K. Bulasara	April, 2018
3	Mr. Dev Kumar Mandal	Development of degradable polypropylene by radiation grafting and blending with polylactic acid	Dr. H. Bhunia, Dr. P K. Bajpai	July, 2018
4	Mr. Deepak Tiwari	Studies on CO <sub>2</sub> capture using polymer based carbon adsorbents	Dr. H. Bhunia, Dr. P K. Bajpai	July, 2018
5	Ms. Parminder Kaur	Treatment of textile effluent by electro chemical methods	Dr. V. K. Sangal, Dr. J. P. Kushwaha	April, 2019
6	Ms. Jasdeep Kaur	Simulation and parametric studies on reactive dividing wall distillation column	Dr. V. K. Sangal	July, 2019
7	Ms. Sehaspreet Kaur Toor	Removal of aromatic amines and heavy metals from wastewater using functionalized nanoadsorbents	Dr. J. P. Kushwaha, Dr. V. K. Sangal	August, 2019
8	Ms. Mansi Singh	Studies on polymer nanocomposites as shear thickening fluids	Dr. R. Mehta	September, 2019
9	Mr. Gurpreet Singh	Studies on heat transfer and pressure drop characteristics of nanofluids in flat vertical tubes	Dr. D. Gangacharyulu, Dr. V. K. Bulasara	October, 2019
10	Ms. Ravneet Kaur	Pharmaceutical wastewater treatment by electrooxidation Method	Dr. J. P. Kushwaha, Dr. Neetu Singh	October, 2019
11	Mr. Kamaljit Singh	Studies on drag reduction in pipe flow of heavy oil by using polymer	Dr. D Gangacharyulu Dr. V. K. Bulasara	October, 2019

		additives		
12	Ms. Meenakshi	Residence time distribution studies on continuous flow pulping digester using radiotracer	Dr. Avinash Chandra, Dr. H. Bhunia	October, 2020
13	Ms. Steffi Talwar	Degradation studies of pharmaceutical drugs using fixed bed reactor incorporating in-situ dual effect of photocatalysis and photo-Fenton	Dr. V. K Sangal, Dr. Anoop Verma	October, 2020
14	Ms. Bandhana Sharma	Dehydration of aqueous acetonitrile solution by extractive distillation using novel solvents	Dr. Neetu Singh, Dr. J. P. Kushwaha	October, 2020
15	Ms. Balpreet Kaur	Carbon dioxide capture by adsorbents derived from waste plastics	Dr. H. Bhunia, Dr. Raj Kumar Gupta	October, 2020
16	Ms. Metali Sarkar	Study of hydrodynamics & Residence time distribution of activated sludge process	Dr. V.K. Sangal, Dr. H. Bhunia	November, 2020
17	Mr. Arghya Datta	Residence time distribution studies in a recycle reactor	Dr. Rajkumar Gupta, Dr. H. Bhunia	June, 2021
18	Mr. Sunil Sable	Development of degradable polypropylene using organic additives	Dr. H. Bhunia, Dr. S. K. Ahuja	June, 2021
19	Saudagar Balasaheb Dongare	Development of nanostructured metal based electrocatalyst for electrochemical reduction of CO <sub>2</sub>	Dr. H. Bhunia, Dr. Neetu Singh	October, 2021
20	Ms. Shivani Kalotra	Studies on polymer nanocomposite adsorbents for dye removal	Dr. Rajeev Mehta	December, 2021
21	Ms. Manju Rawat	Design of polymer-additive-solvent coatings for enhancing drying	Dr. S.K. Ahuja	August, 2022
22	Mrs. Suman Duhan	Development of sensing platform based on rare earth nanocomposite films	Dr. Sudhir Kr. Singh, Dr. Manoj Kumar	February, 2023
23	Mr. Rakesh Kumar Gupta	Mixed convection heat transfer from semi-circular cylinders in a vertical channel	Dr. Avinash Chandra, Dr. Raj Kumar Gupta	November, 2023