

# Thapar Institute of Engineering & Technology, Patiala



## Department of Chemical Engineering

### List of Ph.D. Degree Awarded (2015-2021)

S. No.	Name	Thesis title	Supervisor(s)	Year of completion
1	Mr. Surajit Sengupta	Studies on CO <sub>2</sub> capture using adsorption from simulated refinery flue gas	Dr. P. K. Bajpai, Dr. H. Bhunia and Dr. A K Das (RIL)	June 2015
2	Mr. Gaurav Madhu	Studies on degradability of high density polyethylene (HDPE) – polylactide (PLA) blends	Dr. P. K. Bajpai, Dr. H. Bhunia	September 2015
3	Ms. Chitrakshi Goel	Development and characterization of nanostructured carbon adsorbents for carbon dioxide capture	Dr. P. K. Bajpai, Dr. H. Bhunia	March 2016
4	Mr. Damandeep Singh	Experimental and simulation studies of industrial scale finishing reactive distillation column	Dr. Rajkumar Gupta Dr. Vineet Kumar (IIT, Roorkee)	June 2016
5	Mr. B.S. Bhullar	Studies on Thermal Characteristics of Nanofluids in Heatpipe	Dr. D. Gangacharyulu Dr. S K Das ( IIT Ropar)	October 2016
6	Mr. Alok Garg	Modeling and optimization of degradation of dyes present in textile waste water using supported photocatalyst	Dr. P. K. Bajpai Dr. V. K. Sangal	April 2017
7	Ms. Harkirat Kaur	Studies on heat transfer and pressure drop characteristics of nanofluids in microchannels	Dr. D. Gangacharyulu	August 2017
8	Ms. Arshdeep Kaur	Studies on catalytic hydrogen generation from sodium borohydride	Dr. D. Gangacharyulu	August 2017

9	Ms. Harjot Kaur	Preparation and characterization of composite membranes for treatment of some wastewater	Dr. R. K. Gupta Dr. V. K. Bulasara	March, 2018
10	Mr. Nitin Goyal	Studies on removal of endocrine disrupting compounds from aqueous solutions by adsorption	Dr. Sangamitra Barman Dr. V. K. Bulasara	April, 2018
11	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
12	Mr. Deepak Tiwari	Studies on CO <sub>2</sub> capture using polymer based carbon adsorbents	Dr. H. Bhunia Dr. P. K. Bajpai	July, 2018
13	Ms. Parminder Kaur	Treatment of textile effluent by electro chemical methods	Dr. V. K. Sangal Dr. J. P. Kushwaha	April, 2019
14	Ms. Jasdeep Kaur	Simulation and parametric studies on reactive dividing wall distillation column	Dr. V. K. Sangal	July, 2019
15	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
16	Ms. Mansi Singh	Studies on polymer nanocomposites as shear thickening fluids	Dr. R. Mehta	September, 2019
17	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
18	Ms. Ravneet Kaur	Pharmaceutical Wastewater Treatment by Electrooxidation Method	Dr. J. P. Kushwaha Dr. Neetu Singh	October, 2019
19	Mr. Kamaljit Singh	Studies on drag reduction in pipe flow of heavy oil by using polymer additives	Dr. D. Gangacharyulu Dr. V. K. Bulasara	October, 2019
20	Ms. Meenakshi	Residence time distribution studies on continuous flow pulping digester using radiotracer	Dr. Avinash Chandra Dr. H. Bhunia	October, 2020
21	Ms. Steffi	Degradation studies of pharmaceutical drugs using fixed	Dr. V. K. Sangal Dr. Anoop Verma	October, 2020

	Talwar	bed reactor incorporating in-situ dual effect of photocatalysis and photo-Fenton		
22	Ms. Bandhana Sharma	Dehydration of aqueous acetonitrile solution by extractive distillation using novel solvents	Dr. Neetu Singh Dr. J. P. Kushwaha	October, 2020
23	Ms. Balpreet Kaur	Carbon dioxide capture by adsorbents derived from waste plastics	Dr. H. Bhunia Dr. Rajkumar Gupta	October, 2020
24	Ms. Metali Sarkar	Study of hydrodynamics & Residence time distribution of activated sludge process	Dr. V.K. Sangal Dr. H. Bhunia	November, 2020
25	Mr. Arghya Datta	Residence time distribution studies in a recycle reactor	Dr. Rajkumar Gupta Dr. H. Bhunia	June, 2021
26	Mr. Sunil Sable	Development of degradable polypropylene using organic additives	Dr. H. Bhunia Dr. S. K. Ahuja	June, 2021
27	Saudagar Balasaheb Dongare	Development of nanostructured metal based electrocatalyst for electrochemical reduction of CO <sub>2</sub>	Dr. H. Bhunia; Dr. Neetu Singh	Thesis Submitted on July 2021
28	Ms. Shivani Kalotra	Studies on polymer nanocomposite adsorbents for dye removal	Dr. Rajeev Mehta	Synopsis done