

Dr. PARMESH KUMAR CHAUDHARI

Associate Professor, Chemical Engineering Department

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Academic Profile:

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| 1 | PhD (Chemical Engineering) , IIT Roorkee |
| 2 | M.E. (Chemical Engineering), University of Roorkee |
| 3 | B.E. (Chemical Engineering), Govt. Engg. College, Raipur, C.G |

Courses Taught

Inorganic chemical technology, Organic chemical technology, Mechanical operation, Computer programming in C++, Fluid flow operation, Fuel technology, Chemical Engineering Thermodynamics, Mechanical aspect design, Heat transfer equipment design, Mass transfer equipment design, Diffusion and absorption, Environmental Engineering, Process instrumentation and control, Process modeling and simulation, Advance wastewater treatment, Computer aided design, Fluidization Engineering , Reaction Engineering, Transport phenomena.

Research Interests/Specialization

Chemical Process Design, Fluidization Engineering, Industrial Wastewater Treatment, Process Modeling and Simulation, Reaction Engineering

Patent

No	Name of Investigators	Topic	National/International	Status
1	Parmesh Kumar Chaudhari and Rajkishore Chaudhary	System and method for treating coking wastewater	Indian Patent No 326392	Awarded 29/11/2019
2	Parmesh Kumar Chaudhari , Shreyash Dondudey and Amit Krshav	Hybrid process for treatment of sugar industry wastewater	Indian Patent (Application submitted)	March 2021

Projects				
No	Topic	Funding agency	Amount (Lakhs)	Status
1	Treatment of biodigester effluent of rice grain based industry	Chhattisgarh Council of Science & Technology, Raipur	2.0	Completed , 2013 (PI)
2	Treatment of sugar industry wastewater and water management in sugar industry	SERB, DST, NewDelhi	27.86	Completed, 2019 (PI)
3	Scientific studies on impact of Idols on water quality'	Chhattisgarh Council of Science & Technology, Raipur	4.26	Completed, 2019 (PI)
4	Removal of Dye and Chemical Oxygen Demand of Dye bearing effluent	Chhattisgarh Council of Science & Technology, Raipur	4.0	Ongoing, 2019 (Co-PI)
5	Monitoring of fluoride in underground water of Jagdalpur District of Chhattisgarh and its removal	Chhattisgarh Council of Science & Technology, Raipur	3.29	Completed, 2019 (Co-PI)
6	To improvement property of sparklers by reducing moisture adsorption (Consultancy)	Ms Classical Sparklers, Raipur	0.50	Completed on 24/1/2020

Editorial work

1. Guest Editor , International Journal of Chemical Reactor Engineering, De Gruyter Publication, Germany
 2. Editor of Processing, "International Conference on Advances in Chemical Engineering-2013 ", held at National Institute of Technology Raipur, March 8-9, 2013.
 3. Editor of Proceeding , "National Symposium on Reaction Engineering-2010", held at National Institute of Technology Raipur, January 21-22, 2010.
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Thesis Supervisions				
No.	Name of student	Name of Supervisor	Topic	Date of Award
1	Mr Abhinesh Prajapati	Dr P. K. Chaudhari	Treatment of rice grain based distillery wastewater	July 28, 2014
2	Mr Bidyit Majumdar	Dr P. K. Chaudhari	Treatment of wastewater from maize based industry	September 08, 2014
3	Mr. Ompralash Sahu	Dr P. K. Chaudhari	Treatment of sugar industry wastewater	September 22, 2015
4	Mr. R. K. Chaudhary	Dr P. K. Chaudhari	Removal of contaminants of coking wastewater	November 11, 2017
5	Ms Kruti Jethwa	Dr. Samir Bajpai Dr P. K. Chaudhari	Study on utility of constructed wetland in enhancing Nitroden and Phosphorus contain of lateritic soil	June 24, 2019
6	Deepak Sharma	Dr P. K. Chaudhari Dr. Abhinesh Prajapati	Adsorption, electrocoagulation and membrane separation process to remove Cr and Pb from electroplating effluent	December 24, 2019
7	Ms Neela Acharya	Dr P. K. Chaudhari	Chemical and biological treatment of domestic sewage	February 18, 2020
8	Vibha Verma	Dr P. K. Chaudhari	Catalytic treatment of coke oven effluent	November 2, 2020
9	Shreyas Gondudey	Dr P. K. Chaudhari	Biological, Chemical and electrochemical treatment of sugar industry wastewater	November 18, 2020
10	Neeraj Chandrakar	Dr. Raghvendra Thakur Dr. P. K. Chaudhari	Treatment of fluoride bearing wastewater	ongoing
11	Vijay Kumar	Dr P. K. Chaudhari Dr. Chandrakant Thakur	Chemical and biological treatment of Dye wastewater	ongoing
12	Akanksha Agrawal	Dr P. K. Chaudhari Dr Prabir Ghosh	Anaerobic digestion of vegetable and fruit waste	ongoing
13	Gopal Nayak	Dr A. K. Poonia Dr P. K. Chaudhari	Anaerobic digestion of rice straw	ongoing

Conferences

No	Post	Topic	Place and date
1	Organizing secretary	International Conference on Reaction Engineering-2021	National Institute of Technology Raipur, May 7-8, 2021
2	Organizing secretary	International Conference in Advances on Chemical Engineering-2013	National Institute of Technology Raipur, March 8-9, 2013.
3	Organizing secretary	National Symposium on Reaction Engineering-2010	National Institute of Technology Raipur, January 21-22, 2010

Short Term Courses

No	Post	Topic	Place and date	Sponsored by
1	Coordinator	Waste Treatment and Cleaner Technology	National Institute of Technology Raipur, May 28-June 1, 2012	NIT Raipur (partially)
2	Coordinator	Environmental Challenges and Remedies	National Institute of Technology Raipur, May 28-June 1, 2012 May 25-29, 2015	Self Sponsor
3	Coordinator	Chemical Process Modeling and Simulation	National Institute of Technology Raipur, June 23- 27, 2014	Self Sponsor

Research Publication in Journals

57

SCI 37, SCIE 3, SCOPUS 8 , International conference proceeding 4 , National Journal 5

No	Name of Author(s)	Topic	Journal's Name	Details
1	Neeraj Chandraker, Parmesh Kumar Chaudhari, Ghoshna Jyoti, Abhinesh Prajapati, Raghwendra Singh Thakur	Removal of fluoride from water by electrocoagulation using Mild Steel electrode	Journal of Indian Chemical Society (Elsevier)	DOI:10.1016/J.JICS.2021.100026
2	Vibha Verma, Raghvendra Singh Thakur, Akansha Agrawal, Parmesh Kumar Chaudhari	Wet oxidation of coking wastewater: Optimisation of degradation parameters through RSM.	Journal of Indian Chemical Society (Elsevier)	87 (2020) 29-33

3	Vibha Verma, Parmesh Kumar Chaudhari and Bidyut Mazumdar	Optimization of multiple parameters of coking wastewater (CWW): catalytic thermolysis (CT) at high pressure reactor (HPR),	International Journal of Chemical Reactor Engineering (De Gruyter Germany)	18 (4) (2020).1-14
4	Vibha Verma and Parmesh Kumar Chaudhari	Optimization of multiple parameters for treatment of coking wastewater using Fenton oxidation	Arabian Journal of Chemistry	13 (2020) 5084- 5095
5	Neela Acharya, Ghosna Jyoti, Chandrakant Thakur, Parmesh Kumar Chaudhari	Treatment of domestic sewage using electrocoagulation followed by ion exchange – Parametric and kinetic studies	Desalination and Water Treatment	178(2020)65-73 DOI: https://doi.org/10.5004/dwt.2020.24951
6	Shreyas Gondudey , Parmesh Kumar Chaudhari, Sandeep Dharmadhikari and Raghvendra Sing Thakur	Treatment of sugar industry effluent using electrocoagulation process: Process optimization using response surface methodology	Journal of Serbian chemical Society	85 (2020) 1357–1369.
7	Shreyas Gondudey and Pramesh Kumar Chaudhari	Influence of various electrode materials in electrocoagulation efficiency: Application in treatment of sugar industry effluent	Sugar Tech (Springer)	22 (2020) 15–27. doi.org/10.1007/s12355-019-00753-6
8	Shreyas Gondudey and Pramesh Kumar Chaudhari	Treatment of Sugar Industry Effluent Through SBR Followed by Electrocoagulation	Sugar Tech (Springer)	22 (2020)303–310, https://doi.org/10.1007/s12355-019-00777-y
9	Deepak Sharma, Parmesh Kumar Chaudhari , Nitin Pawar, Abhinesh Kumar Prajapati	Preparation and characterization of ceramic microfiltration membranes for removal of Cr (VI) and Pb from electroplating effluent	Indian Journal of Chemical Technology NISCAIR	27(2020) 294-302
10	Deepak Sharma, Parmesh Kumar Chaudhari, Abhinesh Kumar Prajapati	Removal of Cr(IV) and Pb from electroplating plating effluent using electrocoagulation.	Separation Science and Technology (Taylor and Francis)	55 (2020) 321-331 doi: 10.1080/01496395.2018.1563157
11	Shyam P Tekade, Prashant Gugale, Mitesh Gohil, Sandip H.Gharat; Trilok Patil, Parmesh Kumar Chaudhari, Ashish N. Sawarkar	Catalytic pyrolysis of polyethylene plastic wastes under vacuum	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects (Taylor and Francis)	Published online: 14 Dec 2020 doi: 10.1080/15567036.2020.1856976
12	Deepak Sharma, Parmesh Kumar Chaudhari, Abhinesh Kumar Prajapati	Kinetic, equilibrium isotherm and thermodynamic for adsorption of Cr(VI) and Pb using powdered groundnut shell as a low cost adsorbent	Desalination and water Treatment	162(2019) 239–251, doi: 10.5004/dwt.2019.24337
13	Omprakash Sahu, Bidyut Mazumdar, Parmesh Kumar Chaudhari	Electrochemical treatment of sugar industry wastewater: process optimization by response surface methodology	International Journal of Environmental Science and Technology (Springer)	DOI 10.1007/s13762-018-1765-0 28 May , 2018

14	Rajkishore Chuudhary, Parmesh Kumar Chaudhari	Removal of pollutants of coking wastewater by adsorption	Desalination and Water Treatment (Taylor and Francis)	75 (2017)45-57.
15	Rajkishore Chuudhary, Ghosna Jyoti, Prabir Ghosh, Ashish N. Sawarkar P. K. Chaudhari	Electrochemical process to remove contaminant of coking wastewater using aluminium electrode	Desalination and Water Treatment (Taylor and Francis)	86 (2017) 68-79
16	Niraj Thakre, Dipaloy Datta, Abhinesh Kumar Prajapati, Parmesh Kumar Chaudhari, Dharm Pal	Reactive extraction of citric acid using different extractants: equilibrium, kinetics and modeling	Chemical and Biochemical Engineering Quarterly, CABEQ	31 (2017) 437-446
17	Abhinesh Kumar Prajapati, Parmesh Kumar Chaudhari, Bidyut Mazumdar, Rumi Choudhary	Treatment of rice grain based Biodigester distillery biodidester effluent (BDE) using inorganic coagulants	Indian Journal of Chemical Technology (NISCAIR)	23 (2016) 491-496
18	Abhinesh Kumar Prajapati, Parmesh Kumar Chaudhari, Dharampal, Anil Chandrakar, Rumi Choudhary	Electrochemical treatment of rice grain based distillery effluent using copper electrode	Journal of Water Process Engineering (Elsevier)	11(2016)1-7
19	Abhinesh Kumar Prajapati, Parmesh Kumar Chaudhari	Physicochemical treatment of distillery wastewater- A Review	Chemical Engineering Communications (Taylor and Francis)	202 (2015) 1098-1117
20	Omprakash Sahu, Vandana Gupta, Parmesh Kumar Chaudhari, Vimal Chand Srivastava,	Electrochemical treatment of actual sugar industry wastewater using aluminum electrode	International Journal of Environmental Science and Technology (Springer)	12 (2015)3519-3530
21	Omprakash Sahu, Parmesh Kumar. Chaudhari	Electrochemical treatment of sugar industry wastewater: COD and color removal	Journal of Electroanalytical Chemistry (Elsevier)	739 (2015)122-129
22	Abhinesh Kumar Prajapati, Parmesh Kumar Chaudhari, Bidyut Mazumdar, Rumi Choudhary	Catalytic thermal treatment (catalytic thermolysis) of a rice grain based biodigester effluent of an alcohol distillery plant	Environmental Technology (Taylor and Francis)	36 (2015) 1-26 DOI:10.1080/09593330.2015.1036787
23	Bidyut Mazumdar , Parmesh Kumar Chaudhari	Electrochemical treatment of biodigester effluent of maize-based starch industry: COD and color removal	Desalination and Water Treatment (Taylor and Francis)	55 (7) (2015)1972-1980
24	Abhinesh Kumar Prajapati, Rumi Choudhary, Kumar Verma, Parmesh Kumar Chaudhari , Amit Dubey	Decolorization and removal of chemical oxygen demand (COD) of rice grain-based biodigester distillery effluent (BDE) using inorganic coagulants	Desalination and Water Treatment (Taylor and Francis)	53(2015)2204-2215
25	Bidyut Mazumdar , Parmesh Kumar Chaudhari	Electrochemical treatment of biodigester effluent of maize-based starch industry using iron	Indian Journal of Chemical Technology (NISCAIR)	54 (2015) 1972-1880

		electrode”		
26	Abhinesh Kumar Prajapati, Parmesh Kumar Chaudhari	Electrochemical treatment of rice grain-based distillery effluent: chemical oxygen demand and colour removal	Environmental Technology (Taylor and Francis)	35, (2014) 242-249
27	Omprakash Sahu, Bidyut Mazumdar, Parmesh Kumar Chaudhari	Treatment of wastewater by electrocoagulation: A review	Environmental Science and Pollution Research (Springer)	21(2014) 2397-2413
28	Om Prakash Sahu, Parmesh Kumar Chaudhari	Removal of color and chemical oxygen demand from sugar industry wastewater using thermolysis processes	Desalination and Water Treatment (Taylor and Francis)	56 (2015)1756-1767 DOI: 10.1080/19443994.2014.956797
29	Abhinesh Kumar Prajapati and Parmesh Kumar Chaudhari	Electrochemical treatment of rice grain based distillery biodigester effluent	Chemical Engineering and Technology (Willey)	37 (2014) 1-9
30	Parmesh Kumar Chaudhari, Shri Chand, Indra Mani Mishra	Kinetics of catalytic Thermal Treatment (Catalytic Thermolysis) of Bio-digester Effluent of an alcohol distillery plant	Chemical Engineering Communication (Taylor and Francis)	199 (2012) 874–888
31	Parmesh Kumar Chaudhari, Anand Singh, Basheswar Prasad, Indra Mani Mishra and Shri Chand	Thermal oxidation kinetics of solid residues obtained from the catalytic thermolysis and coagulation of alcohol distillery	Energy Sources, Part A (Taylor and Francis)	34(2012)336–346
32	Parmesh Kumar Chaudhari, Rajkumar Singh, Indra Mani Mishra and Shri Chand	Kinetics of Catalytic thermal pretreatment (Catalytic thermolysis) of distillwry wastewater and biodigester effluent of an alcohol production plant at atmospheric pressure	International Journal of Chemical Reactor Engineering	8(2010) 1-22
33	Parmesh Kumar Chaudhari Bidyut Majumdar, Rumi Choudhary, Deepak Kumar Yadav and Shri Chand.	Treatment of paper and pulp mill effluent by coagulation	Environmental Technology (Taylor and Francis)	31 (2010) 357-363
34	Parmesh Kumar Chaudhari, Indra Mani Mishra and Shri Chand	Effluent treatment for alcohol distillery: Catalytic thermal pretreatment (catalytic thermolysis) with energy recovery	Chemical Engineering Journal (Elsevier)	136 (2008) 14-24
35	Parmesh Kumar Chaudhari, Indra Mani Mishra and Shri Chand	Decolourization and removal of chemical oxygen demand (COD) with energy recovery: Treatment of biodigester effluent of a molasses-based alcohol distillery using inorganic coagulants	Journal of Colloids and surfaces A : Physicochemical. Engineering Aspects (Elsevier)	296(2007) 238-247
36	Parmesh Kumar Chaudhari, Indra Mani Mishra and Shri Chand.	Catalytic thermal treatment (catalytic thermolysis) of biodigester effluent of an alcohol distillery plant	Industrial and Engineering Chemistry Research (ACS)	44(2005) 2518-2524
37	Bidyut Mazumdar , Parmesh Kumar	Treatment of biodigester effluent of maize-based starch industry by	Research Journal of Chemistry and	17(5) 2014

	Chaudhari	coagulation	Environment	
38	Anurag Garg, VVVSS Narayana, Parmesh Chaudhari and Shri Chand.	Treatment of pulp and paper mill effluent	Journal of Scientific and Industrial Research (NISCAIR)	63, 667-671 (2004)
39	Parmesh Kumar Chaudhari , Pradeep Sainee and Shri Chand.	Comparative performance of Ion-exchanged ZSM-5 and Y-Zeolite catalysts for Toluene Disproportionation Reaction	Journal of Scientific & Industrial Research (NISCAIR)	61, 810-818 (2002)
40	Omprakash Sahu and Parmesh Kumar Chaudhari	The Characteristics, Effects, and Treatment of wastewater in Sugarcane Industry	Water Quality, Exposure and Health (Springer)	(ISSN 1876-1658) DOI 10.1007/s12403-015-0158-6,

Research Publication in International SOPUS and Referred Journals				08
No	Name of Authour(s)	Topic	Journal's Name	Details
1	Deepak Sharma; Parmesh Kumar Chaudhari; Savita Dubey; and Abhinesh Kumar Prajapati	Electrocoagulation Treatment of Electroplating Wastewater: A Review	Journal of Environmental Engineering ISSN- 07339372 (SCOPUS)	146 (2020)1-15 DOI: 10.1061/(ASCE)EE.1943-7870.0001790.
2	Neela Acharya, Chandrakant Thakur, Parmesh Kumar Chaudhari	Sequential batch reactor (SBR) for bio degradation of organic wastewater: A review	International Journal of ChemTech Research (SCOPUS)	13 - 11-24, 2020.
3	Neela Acharya , Chandrakant Thakur, Parmesh Kumar Chaudhari.	Electrocoagulation followed by settling and filtration process in treatment of domestic sewage	International Journal of ChemTech Research (SCOPUS)	12 - 283-290, 2019.
4	Neela Acharya, Chandrakant Thakur, Parmesh Kumar Chaudhari	Data set on statistical reduction of COD by electrocoagulation using RSM	Data in Brief (SCOPUS.)	28, 104944, 2020
5	Neela Acharya , Chandrakant Thakur , Parmesh Kumar Chaudhari	Coagulation followed by ion exchange to treat domestic sewage..	International Journal of Recent Technology and Engineering 8, (SCOPUS)	03- 6808-6814, 2019

6	Omprakash Sahu, Debashri Paul and Parmesh Kumar Chaudhari	A Comparatively Study on Thermal and Advance Oxidation Wastewater Treatment Process: Review	Journal of Chemical Engineering and Chemistry Research (SCOPUS)	1, 353-364, 2014
7	Om Prakash Sahu, Parmesh Kumar Chaudhari	Physicochemical Treatment of Sugar Industry Wastewater: Coagulation Processes	Environmental Quality Management (Willey) (SCOPUS)	23, 49-69, (2014)
8	Parmesh Kumar Chaudhari, Bidyut Majumdar, Rajkumar Singh and Shri Chand	Treatment of biodigester effluent: Catalytic thermal treatment (catalytic thermolysis) with energy recovery followed by wet oxidation	Journal of Environmental Research and Development	4(2) 506-505 (2009), ISSN 0367-827X

Research Publication in International Journals Conference Proceedings				04
No	Name of Authour(s)	Topic	Journal's Name	Details
1	Abhinesh Kumar Prajapati and Parmesh Kumar Chaudhari and Bidyut Mazumdar.	Electrochemical treatment of rice grain based distillery effluent using iron electrode, International conference on global scenario in environmental and energy, March 14-16, 2013	International Journal of Chemical Technology and Research (Sphinx Knowledge House)	5(2) 694-698, 2013
2	Bidyut Mazumdar , Abhinesh Kumar Prajapati and Parmesh Kumar Chaudhari.	Electrochemical process for removal of color from effluent of maize based starch processing unit, International conference on global scenario in environmental and energy International, March 14-16, 2013	Journal of Chemical Technology and Research (Sphinx Knowledge House)	5(2) 707-711, 2013
3	Parmesh Kumar Chaudhari	Removal of mercaptant from diesel, International conference on future environment and energy, February 26-28, 2012	International Proceedings of Chemical Biological and Environmental Engineering, ISSN 2010-4618	90-94(2012)
4	Deepak Sharma, Parmesh Kumar Chaudhari, Abhinesh Kumar Prajapati,	Expulsion of Zn from the downstream of metal plating effluent onto modified agricultural adsorbent prepared from peanut shell.	SSRN Elsevier	2019, doi: 10.2139/ssrn.3368077.

Paper Published in National Journals**05**

No	Name of Authour(s)	Topic	Journal's Name	Details
1	Rumi Chaudhari, P. K. Chaudhari, Amit Keshav and R. K. Singh	Synthesis and characterization of some Cobalt Phthalocyanine Carboxylamide used in the Merox process	Research Journal of Engineering and Technology (ANV) , ISSN: 0976-2973	1 (1), Jan-Mar. 2010
2	Parmesh Kumar Chaudhari, Vijay SinghSikarwar, Sandeepan Ray, Vijay Agrawal	Effect of various parameters on cell temperature for production of aluminum.	IUP Journal of Chemical Engineering (IUP), ISSN: 0975-6337	2012
3	Debashri Paul, Parmesh Kumar Chaudhari, Raghavendra Singh Thakur	Simulation of FCC riser reactor based on ten lump model.	International Journal of Engineering Research and Applications, ISSN: 2248-9622	July 2015
4	Debashri Paul, Parmesh Kumar Chaudhari, Raghavendra Singh Thakur	Simulation using Six Lump Model of FCC Riser Reactor.	IJSRD - International Journal for Scientific Research and Development, ISSN (online): 2321-0613	2015
5	Debashri Paul and Parmesh Kumar Chaudhari	Simulation of FCC Unit Using Four Lump Model.	Academic Journal of Science, ISSN: 2165-6282	2015

Papers in Conferences**30**

Sixteen papers have been presented/accepted in International conference/seminar and **Fourteen** in National conference/seminar

Papers Reviewed

1. Indian Chemical Engineers, Indian Institute of Chemical Engineers
2. CLEAN Soil Air Water, Willey-vch
3. International Journal of Environmental and Waste Management (IJEWM), Inderscience

4. Journal of Petroleum Technology and alternative Fuels, Academic, Australia
 5. Energy Sources A:, Taylor and Francis
 6. Chemical Engineering Journal, Elsevier
 7. Environment Engineering and Management, Elsevier
 8. Chemical Engineering Communication, Taylor and Francis
 9. Journal of Environmental Management, Elsevier
 10. Journal of Chemical and Environmental Engineering , Elsevier
 11. Environmental Technology, Taylor and Francis
 12. Desalination and Water Treatment, Taylor and Francis
 13. Environmental Technology, Taylor and Francis
 14. AIChE
 15. Catalysis Today, Elsevier
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Lab Manuals Prepared

Inorganic chemical technology, Organic chemical technology, Computer programming in C++, Fluid flow operation, Computer aided design, Numerical methods.

Honors/Award/Fellowship

- Fellowship of Rural Talent Search Examination
 - Represented Madhya Pradesh in National Talent Search Examination and received fellowship for the same.
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M Tech Thesis

1. MS Nayna Agrawal,
2. Mr Vijay Kumar, Roll No 16245005, “Treatment of municipal wastewater by coagulation and bioaeration process” Date of Award : 05/06/2018.
3. Mr. Nitin Pawar, “Synthesis and characterization of low cost ceramic membrane and its application” 2016.
4. Miss Debashri Paul, Roll No. 13245007. “Simulation of riser catalyst cracking reactor” 2015

5. Miss Vandana Gupta, Roll No. 12245015, “Reduction in COD and color of sugar industry effluent”, Date of Award: 11/06/2014
 6. Miss Neela Acharya, Roll No. 12245008, “Catalytic treatment of dye wastewater”, Date of Award: 11/06/2014
 7. Miss Pankhuri Shrivastava, Roll No. 09245007 “ Saponification studies of ethyl acetate”, Date of Award: 03/02/2012
 8. Shikha Daharwal, Roll No. 10245007, “ Removal of fluoride from wastewater” Date of Award: 05/08/2012.
 9. Mr. Deepak Sharma, Roll No. 09245002, “Treatment of dairy wastewater” , Date of Award: 03/02/2012
 10. Mr.. Abhinesh Prajapati , “ Treatment of distillery wastewater”, Date of Award: 15/04/2010.
 11. Mrs. Rummy Chaudhary ,“ Synthesis of catalyst and desulphurization of thio-compound”, 2010. Co-guide Dr. Rajkumar Singh, Scientist B, IIP Dehradun, Date of Award: 15/04/2010.
 12. Miss Pooja Uddappa , “Software approach for development of heat exchanger using pinch analysis” October 2007.
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B. Tech Thesis

Twenty B. Tech thesis supervised on different topics.

1. Distillation studies of benzene –toluene in sieve plate column
 2. Concentration of NaCl in triple effect evaporator
 3. Modeling and simulation of triple effect evaporator
 4. Adsorption studies of CO₂ in packed column using NaOH
 5. Treatment of distillery wastewater by catalytic thermolysis
 6. Design of equipment for thermolysis
 7. Process design of production of glycol
 8. Treatment of wastewater of maize industry by coagulation
 9. Modeling and simulation of multi component fractional distillation column
 10. Removing of sulfur from petroleum
 11. Catalytic wet oxidation of Phenolic effluent
 12. Synthetic of nano particle and its application
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Practicals included in B. Tech/M.tech Labs

- (i) Catalytic thermal treatment of organic effluents
 - (ii) Electrochemical treatment of organic wastewater
 - (iii) Simulation of double effect evaporator
 - (iv) Simulation of sieve plate distillation column for binary system
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Administrative Posts Hold

- Head of Department since September 2011- September 2013
 - Chairman DRC, 2011-12
 - Chairman board of studies, 2011-12
 - Assistant Superintendent of Examinations in 2007 and 2008
 - Hostel Warden, since November 2006
 - NSS Program officer 2000
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Member of Professional Bodies

Life Member of Indian Institute of Chemical Engineers (IICChE), Kolkata, India (LM -14249)

Life Member of Institution of Engineers (IE), Kolkata, India

Life Member of Indian Society of Technical Education (ISTE), Newdelhi, India (LM-81774)

Life Member of Indian Association for Environmental Management, Nagpur (LM-1725)

Dr. P. K. Chaudhari

August 10, 2021

