




# Government Autonomous College, Rourkela

## Faculty Profile

<b>Name</b>	Dr. Pratap Kumar Swain			
<b>Designation</b>	Assistant Professor , Stage-I			
<b>Department</b>	Chemistry			
<b>Address (Office)</b>	Government Autonomous College, Rourkela			
<b>Address (Residence)</b>	Qr. No- C/3 Govt. Autonomous College Campus, Panposh, Rourkela			
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<b>Qualifications</b>				
<b>Degree</b>	<b>Institution</b>	<b>Year</b>	<b>Subject Details</b>	
B.Sc.	Swami Vivekananda Memorial College, Jagatsinghpur	1997	Physics, Chemistry (Hons.), Mathematics	
M. Sc.	Bhadrak Autonomous College, Bhadrak	2000	Physical Chemistry, Organic Chemistry, Inorganic Chemistry, Analytical Chemistry, Specialization in Organic Chemistry, Quantum Chemistry, Polymer Chemistry	
Ph. D	Veer Surendra Sai University of Technology, Burla, Sambalpur	2022	Assessment and Characterization of solid wastes in Rourkela Industrial Complex and its Eco-management study	
<b>Areas of Interest/ Specialization</b> :Organic Chemistry				
<b>Teaching/Research Experience</b>				
<b>Organization/Institution</b>	<b>Designation</b>	<b>Duration</b>	<b>Role</b>	
Government Junior College, Rourkela	Junior Lecturer	11.01.2012 to 10.01.2020	To impart teaching to the intermediate students	
Government Junior College, Rourkela	Lecturer State Scale	11.01.2020 to 10.01.2022	To impart teaching to the intermediate, UG and PG students	
Government Autonomous College, Rourkela	Assistant Professor	11.01.2022 to till date	To impart teaching to the UG and PG students	
<b>Course Taught</b>				
Stereochemistry, Alkanes, alkyl halide, Reaction Mechanism, carbohydrates, Chemical Thermodynamics, Statistical Thermodynamics, Mossbauer spectroscopy, ESR Spectroscopy, Chemical Bonding. Polymers				

<b>Book Chapters:01</b>
Eco-utilization and sustainable management of solid wastes of steel industries
(Accepted for Publication in Springer Nature)
<b>Research Papers:</b>
1. Role of Microalgae as Bio-fertilizer for Sustainable Environment, <i>Current Advances in Mechanical Engineering, Springer linked Journal, 2021</i>
2. Analysis of Soil Quality, Modelling in and around Steel City, Rourkela, Odisha, 2021
3. Design and Eco-utilization of Blast furnace slag generated from Rourkela Steel Plant, Odisha, <i>Indian Journal of Environmental Protection</i>
4. Assessment of Air Quality and its Impact In and Around Jharsuguda, Odisha and Prediction Modelling by using Regression Analysis, <i>Indian Journal of Environmental Protection, 2021</i>
5. Physico Chemical and Minerological Properties of Fly ash of Rourkela Steel Plant, Odisha and its Eco-utilization, <i>Pollution Research, 2019</i>
6. Recycling and Utilization of Solid waste generated in the Rourkela Steel Plant, Odisha, <i>Journal of Industrial Pollution Control, 2018</i>
7. Solid waste generation in the Rourkela Steel Plant, Its Recycling and Eco-Utilization, <i>Pollution Research, 2018</i>
8. A short review on solid waste generations, Recycling and Management in the present Scenario of India, <i>Journal of Industrial Pollution Control, 2018</i>
9. Physico- Chemical and Mineralogical Analysis of Mill scale of Rourkela Steel Plant through Multi analytical Methods and its Eco-utilization for the Production of Sponge Iron, <i>International Journal of Advance Scientific Research, 2021</i>
<b>(National /International ) Seminar/Symposium/Webinar/Workshop/FDP/Orientation/ Refresher/Conference etc. organized in capacity of Convener/ Co-convener [In Detail]</b>
<b>1)</b> Organized National Webinar on Supra molecular Chemistry and Organometallic Chemistry as Co-Convener on 12 <sup>th</sup> April 2023
<b>2)</b> Organized National Webinar on Recent Advances in Chemistry for Sustainable Development 14 <sup>th</sup> March 2022 as Co-Convener
<b>3)</b> Organized National Webinar on Recent Advances in Chemistry 2019 as Co-Convener
<b>4)</b> Organized National Webinar on Recent Advances in Chemistry 2018 as Co-Convener

<b>Paper Presented in Seminar/Symposium/Webinar/Workshop/FDP/Orientation/ Refresher/Conference etc. [In Detail]</b>
1) Presented paper in National seminar on Advances in Materials Chemistry and Application jointly organized by Orissa Chemical Society and Utkal University, Bhubaneswar on 18- 19 <sup>th</sup> December, 2022
2) Presented paper in the International Virtual Conference on Science, Engineering and Technology on the topic Physico-Chemical and Mineralogical Analysis of Mill Scale of Rourkela Steel Plant through multi analytical methods and its eco-utilization for the production of sponge iron on 16 <sup>th</sup> July 2021 conducted by Joy Academy, Kanyakumari, Tamil Nadu
3) Presented paper in the International Conference, ODICON at SOA, University, Bhubaneswar on the topic Functionally Responsible waste plastic materials, its impact on the Environment and its Bioremediation from 8- 9 <sup>th</sup> January 2021
4) Presented paper in International Conference on Global Challenges in National Research for Environmental and Health care Application entitled Fly ash and Its Eco-utilization jointly organized by IMMT, Bhubaneswar, AIIMS, Bhubaneswar and University College of London, UK from 27-28 <sup>th</sup> August, 2020
5) Presented paper in the International Conference on Recent Advances in Mechanical Engineering Research and Development from 24- 25 <sup>th</sup> July, 2020 at SOA, University, Bhubaneswar on the topic entitle Role of Micro algae as Bio-fertilizer for sustainable Environment
<b>Seminar/Symposium/Webinar/Workshop/FDP/Orientation/ Refresher/Conference etc. Attended [In Detail]</b>
1) Participated in UGC sponsored 30 <sup>th</sup> Orientation Programme conducted by UGC- HRDC, Sambalpur University from 10 <sup>th</sup> July 2015 to 6 <sup>th</sup> August, 2015
2) Completed ARPIT Refresher Course on History of Indian Science and Technology from Jawaharlal Nehru University, New Delhi in 2020
3) Completed ARPIT Refresher Course on Teacher and Teaching in Higher Education from Sabitribai Phule Pune University, Pune in 2021
4) INSERB Sponsored Workshop on Raman Spectroscopy: Application and Avenues, from 24-25 <sup>th</sup> March, 2023 conducted by KIIT, Bhubaneswar
5) INSERB Sponsored Workshop on Bio-Chemical and Bio-Physical Characterization of Proteins conducted by NIT, Rourkela, from 19 <sup>th</sup> – 23 <sup>rd</sup> October, 2022
6) Participated in International conference on Recent Advances in Biological Sciences -2022 conducted by Vikram Deb Autonomous College, Jeypore, Koraput, Odisha from 22 <sup>nd</sup> -23 <sup>rd</sup> December, 2022
7) Participated in International Webinar on Social Responsibilities and Role of Public and NGOs in COVID-19 Pandemic jointly conducted by Maharshi College of Natural Law and Odisha State Bharat Scouts & Guides on 19 <sup>th</sup> July 2020
8) Participated in International webinar on National Education Policy 2020 conducted by KIIT, Bhubaneswar on 28-30 <sup>th</sup> August 2020
<b>Memberships of Professional Bodies/Societies</b>
1) Member of Odisha Chemical Society, Bhubaneswar