RESUME

Personal Profile

Name Saswat Kumar Pradhan

Father Arun Kumar Pradhan

Mother Bishnu Kumari Biswal

Nationality Indian

Date of Birth 2nd August 1979

Gender Male

Languages known English, Hindi and Odia

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Academic Record

Exam Passed	Subjects	Institute/ University	Year of Passing	CGPA	Maximum CGPA	Class
B Tech	**Industrial biotechnology**	**Bharath University**	**2008**	**8.52**	**10.00**	**First**
MTech	**Chemical Engineering**	**NIT Rourkela**	**2012**	**7.87**	**10.00**	**First**
PhD	**Chemical Engineering**	**BITS Pilani Pilani**	**2020**	**-**	**-**	**-**

National level examination qualified	GATE 2010; score 353.00
Awards and scholarships	GATE scholarship in MTech; UGC-BSR and Institute fellowship in Phd.

Project Profile:

B. Tech Project: An Investigation on Primary Phytochemical Analysis and Bioactive Principle (Bromophenol Compound) of *Kappaphycus sp.* With Respect to Antibacterial Properties.

The main aim of this project is to extract and analyze fatty acids, sterol, carotene and bromophenol compound and to test the antimicrobial activity of methanol extract and specific bromophenol compound.

Undergone training at Shreedhar Bhat's Laboratory, Bangalore for Immunotechnology.

M Tech project: Liquid Fuel from Oil Seeds by Pyrolysis.

The main aim of this project is to extract liquid fuel and to analyze the liquid product to be used as fuel.

PhD project: Synthesis of Metallic Nanoparticles for the Removal of Heavy Metals from Wastewater.

The main aim of this project was to synthesize and characterize nanoparticles. To study different parameters related to batch and continuous study for removing heavy metals from wastewater. The impact of metallic nanoparticles on the environment was also carried out.

Journal publications

1. Pradhan, S.K., Pareek, V., Panwar, J., Gupta, S., 2019. Synthesis and characterization of ecofriendly silver nanoparticles combined with yttrium oxide (Ag-Y_2O_3) nanocomposite with assorted adsorption capacity for Cu(II) and Cr(VI) removal: A mechanism perspective. *Journal of Water Process Engineering*. 32: 100917-100931.

2. Pradhan, S.K., Panwar, J., Gupta, S., 2017. Enhanced heavy metal removal using silver-yttrium oxide nanocomposites as novel adsorbent system. *Journal of Environmental Chemical Engineering* 5: 5801–5814.

3. Vyawahare, S., Pradhan, S.K., Gupta, S., 2014. Removal of heavy metal ions from industrial wastewater using metallic nanoparticles as adsorbents. *Advanced Science Letters* 20: 1311-1315.

National and international conference publications

1. Pradhan S. K., Mangesh N. S., Panwar J., Gupta S., 2018. Synthesis of cobalt oxide nanoparticles for the removal of Cu(II) from aqueous solution, Paper presented in 23rd International Congress of Chemical and Process Engineering, Prague, Czeck republic, August 25-30, (CHISA 2018).

2. Vyawahare, S., Pradhan, S.K., Gupta, S., 2014. Removal of Heavy Metal Ions from Industrial Waste Water Using Metallic Nanoparticles as Adsorbents. Proceedings of National Conference on Nanotechnology and Renewable Energy, Department of Applied Sciences and Humanities, Jamia Millia Islamia, New Delhi, April 28 – 29.

3. Pradhan, S.K., Singh, R.K., Recovery of Bio oil from mustard seeds by thermal pyrolysis' Procedings of CHEMCON, Bangalore, January, 2012.

4. Pradhan, S.K., Singh, R.K., Recovery of Bio oil from sesame seeds by thermal pyrolysis, Proceedings of 26th Indian Engineering Congress, Bangalore, December 16, 2011.

Academic experience

I was involved in the tutorial/practical components of following courses at BITS Pilani.

Course code	Course title	Semester
CHE C351	Heat transfer operations	First semester 2013-2014
CHE C332	Process design decisions	Second semester 2013-2014
CHE F314	Process design principle-I	First semester 2014-2015
CHE F341	Chemical engineering Lab-II	Second semester 2014-2015
		Second semester 2015-2016
CHE F214	Engineering chemistry	First semester 2015-2016
CHE F313	Separation process-II	First semester 2016-2017
		First semester 2017-2018
CHE F342	Process dynamic and control	Second semester 2016-2017

Teaching practice I and II taken in first and second semester of PhD respectively.

Teaching experience

10 months experience in teaching. Following subjects, I have undertaken as part of my teaching to undergraduate students.

Course code	Course title	Semester
KBT-401	Bioprocess engineering	Second semester 2021-2022
KBT-451	Bioprocess engineering Lab	Second semester 2021-2022
KBT-074	Industrial biotechnology	First semester 2021-2022
KBT-751D	Industrial biotechnology Lab	First semester 2021-2022
EDU+	Instrumentation in bioengineering	First semester 2021-2022
KOE-072	Bio-economics	First semester 2021-2022
KOE-083	Entrepreneurship development	Second semester 2021-2022
KBT-064	Entrepreneurship in biotechnology	First semester 2021-2022

Certificates received

1. Received certificate of appreciation for working actively as a member of organizing committee in "Workshop on analytical instruments for chemical and environmental engineers (WAICEE -2015)" held during February 27-28, 2015 organized by Department of Chemical Engineering, Birla Institute of Technology and Science, Pilani and Pilani Regional Centre Indian Institute of chemical Engineers (IIChE).

2. Received certificate of appreciation for the valuable and dedicated service in successful organization of the 4th "Workshop on analytical instruments for chemical and environmental engineers (WAICEE-2019)" organized by IIChE Pilani regional center and department of chemical engineering held at BITS Pilani, Pilani campus during March 25-26, 2019.

Contact details of three referees

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