

# Curriculum vitae

## Dr. Pankaj Sen

Assistant Dean

School of Basic and Applied Science

Department of Chemistry,

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### Career Objectives

I am looking for a position in a result-oriented organization where skills and knowledge can utilize towards continuous growth and advancement of the organisation. With an experience of past 17 years in college education as well as research; presently I am working as Assistant Professor in Department of Chemistry, Sangam University. I published 1 patent and more than 8 research articles.

### Academic Profile

Degree	Board/University	Year	Institution	Percentage
Ph.D. *	Sangam University Bhilwara	2023	Sangam University Bhilwara	Awarded
B. Ed.	MDS University	2010	Rajeev Gandhi T.T. College, Tonk	74.00
M. Phil.	Vinayaka Mission University, Salam (TN)	2009	Vinayaka Mission University, Salam (TN)	63
M.Sc. (Chemistry)	MDS University, Ajmer	2006	Alok Science College, Kekri, Ajmer	58.26
B.Sc. (BCZ)	University of Kota, Kota	2004	Govt. College Bundi	63.34
Senior Secondary	RBSE	2001	Govt. Sr. Sec. School, Deoli	64.00
Secondary	RBSE	2006	Govt. Sr. Sec. School, Deoli	60.50

\*Registration Id- 2018/PHCH/1296 and Date- March, 2019, \*\* Specialization-Water Chemistry

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### Academic Experience

Designation	Name of Organization/Institution	Date of Joining		Salary with Grade
		Joining	Leaving	
Assistant Professor	Sangam University Bhilwara	22, Oct. 2018	Continuing	15600 – 39100 (AGP-7000)
Lecturer	Devkanya PG College Deoli, Tonk	07/04/2016	01/10/2018	25000/Month
Lecturer	The Implus College Lalsot	20/6/2015	30/4/2016	25000/Month
Lecturer	Govt College, Deoli (Tonk)	21/07/2008	16/02/2010	7950 (SFS) / Month
Lecturer	Alok Science College	06/09/2006	31/03/2008	8000 / Month

### Research Experience:

- PhD thesis title-** Elucidation of water quality parameters with emphasis on fluoride content and its removal by natural adsorbent.
- M.Phil. – Analysis of water quality parameters of some village of Deoli Tehsil.
- MOOC course on waste water treatment by IIT Roorkee.
- Develop the wastewater technology using cow dung charcoal.
- Develop the natural adsorbent using activated charcoal of hibiscus Populeneous, cow urine, and copper nanoparticles.
- Innovate the Crab Leges Styled Height- Adjustable Table.
- Innovate the Dual Tong: Modified Test Tube and Ignition Tube Holder.

- ❑ Production of Hydrogen gas with the help of Prosopis Juliflora, Nitric acid, Ethanol, and Magnesium sulphate.
- ❑ Develop the technology for removal of contaminants from wastewater by the combination of Aegle Marmelos and silver nitrate solution.
- ❑ Innovate the design of Precision Gravimetric Instrument for Accurate Capsule Dosing in Pharmaceuticals.
- ❑ Innovate the design of Evaporative watch glass.
- ❑ Review two papers of International Journal and UGC care listed Journal.

### Research Publication:

S. No.	Patent Title / Design Title	Publishing Year/ Grant
1.	Composition of Activated Charcoal of Hibiscus Populeneous and copper Nanoparticles for Removing Fluoride from water	Official Journal of the Patent Office, 01/09/2023 - Published
2.	Precision Gravimetric Instruments for Accurate Capsule Dosing in Pharmaceuticals	14/11/2023 Patent office UK - Granted
3.	Crab legs styled height- adjustable table	19/09/2023 Indian patent Design- Granted
4.	A method of production of hydrogen gas from <i>prosopis juliflora</i> plant using dilute nitric acid	24/11/23 Indian Patent Office- Published
5.	Composition of green synthesized silver nanoparticles for removing contaminants from industrial Wastewater	24/11/23 Indian Patent Office- Published
6.	Drug Waste Management Device for safe and efficient medicine Disposal	7/12/23 Patent office UK - Granted
7.	Dual Tong: Modified test tube and ignition tube holder	29/12/2023 Indian patent office - Granted
8.	Futuristic AI – Enhanced air Puirfier for Next Generation Indoor Environmental Solution	12/12/2023 UK Patent - Granted
9.	Evaporative Watch glass	11/01/2024 Indian patent office - Granted

S. No.	Paper Title	Publishing house
<b>Research Paper</b>		
1	Analysis of water quality parameters of some villages of Deoli Tehsil page No. 14- 17	RNT Journal of Current Discovery in Chemistry ISSN: 2456-9720
2	Wastewater treatment of Sangam university with the help of natural filters	Journal of Applied Geochemistry Vol. 22, No. 4 (2020). pp. 350-352
3	Impact of covid-19 lockdown on physicochemical water quality parameters: textile city bhilwara	Shodh Sanchar bulletin Vol 10 issue 40 Oct. -dec. 2020
4	Changes in groundwater quality of textile city Bhilwara after covid-19 Lockdown	Journal of applied geochemistry Vol 23, No. 3 (2021) pp. 214 -218
5	Water quality assessment of Banas River, eastern-south region of Rajasthan, using water quality index	<i>Proc. Indian Natl. Sci. Acad.</i> (2022). <b>Published by Springer Nature Dec. 19, 2022</b> <a href="https://doi.org/10.1007/s43538-022-00145-7">https://doi.org/10.1007/s43538-022-00145-7</a>

### Books

	Book Name	ISBN No.	Publication House
1.	Drinking Water Chemistry- A practical guide	US ISBN – 978-1-957302-18-8	E- Book

### Chapters

	Name of Chapter	Details of journal, book, conference proceedings etc	Publication House
1.	Analysis of water quality parameters of some villages of Deoli Tehsil(Tonk) page No. 14- 17	National Conference on “Trends and Innovation in Chemistry” (NCTIC - 2019)	RNT Journal of Current Discovery in Chemistry ISSN: 2456-9720
2.	<u>Water quality assessment of Banas River, eastern-south region of Rajasthan, using water quality index</u>	ICAIR - 2022	Chapter in ICAIR ISBN – 978-93-927779-06-0 Edition - 2022
3.	Managing parameter and Mechanism of ground quality variation in semi arid region of eastern – south Rajasthan: A health risk Assessment of fluoride and wqi based strategy	International conference on recent innovation in biotechnology, chemical, & environmental science	ISBN – 978 – 81- 7906- 977-6 Edition - 2023

## Conference/ Workshop/Seminar/Other Academic Events:

- Three days training program at Board of technical education Rajasthan in 2008.
- Attend the National Conference on Research & Innovation Trends in Applied Sciences [NCRIAS18] Sangam University Bhilwara 2018.
- Attend NPTEL Awareness workshop 2019.
- Attend the National Conference on “Trends and Innovation in Chemistry” (NCTIC - 2019) at RNT college kapasan.
- Attend International Conference on Environmental & Climatic Consequences: Challenges & Mitigation Strategies at Sangam University Bhilwara 2020.
  - Attend Intellectual Property Right (IPR) Seminar at Sangam University Bhilwara.
  - Attend the series of guest lecture 2020 on outcome based education.
  - Attend National Webinar on “Sustainable Utilization of Herbal Resources: Conservation & Challenges” by Govt. college Bundi
  - Attend International Webinar on “Role of Teachers in National Building”
  - Attend the International Webinar on Synthetic Organic Electrochemistry: Basic Concept and Scale-up
- Organizing Member in International Conference on “Analytical and Interdisciplinary Research” (ICAIR-2021) in Sangam University Bhilwara
- Paper present in International Conference on Modern Approaches in Sciences & Technology Presenting Date- 02/ 04/ 2022
- Paper present in National Seminar on Possibilities of Multidisciplinary Research in Linguistics Literature- **Best Paper Award.**
- Attend national workshop Challenges before HEIs in remote areas for achieving quality improvement through Assessment & Accreditation process at Sangam University Bhilwara
- Paper present in International Conference Recent innovation in biotechnological, chemical & Environmental sciences at MLSU Udaipur.
- Organizing Secretary in International Conference RTIAS – 24, organised on 22-24 January 2024.

## Interpersonal Skills:

- Good with communication and presentation skills
- Ability to crack problem
- Acquired leadership quality while leading teams for various task.
- Leadership quality with unique properties.

### **Technical Skills:**

- Basics of computer.
- Easy to work on MS Word, MS Excel, Internet, Anova, etc
- Expert to calculate WQI.
- Good hand over internet surfing.
- Easy to handle recent technique of Chemistry - UV-VIS Spectrophotometer, Flam photometer, Photoelectric colorimeter, pH meter, Conductivity meter etc .
- Performed Research work in Nanotechnology.