



FACULTY PROFILE

Department: Chemistry

1. Personal Details

NAME	Dr. Rachna Agrawal	
DEPARTMENT	Chemistry	
DESIGNATION	Assistant Professor	
PHONE	8447424412	
EMAIL ID	rachna.agrawal@jssaten.ac.in	
Date of Joining (JSSATEN)	03-02-2025	

2. Experience

Total Experience in Years	Teaching	Industry	Research
	4 Years	-	4 Years

3. Qualifications

Courses	Specialization	Year of award	Institution	University
B.Sc.,	Physics Chemistry, Mathematics	2006	NREC College, Khurja UP	CCS University, Meerut UP
M.Sc.	Organic Chemistry	2008	NREC College, Khurja UP	CCS University, Meerut UP
Ph.D.	Environmental Chemistry	2014	Mody University of Technology and Science, Laxmangarh Rajasthan	Mody University of Technology and Science, Laxmangarh Rajasthan

4. Research & Publications

Papers Published in Web of Science indexed Journals	4	
Papers Published in SCOPUS indexed Journals	4	
Papers Published in other Journals	3	
Papers Presented in Conferences / Symposium	4	
Books / Book chapters Published		

5. Research Guidance

PhD Guide? Give field & University	Yes, Applied Chemistry	University: Punjab University, Chandigarh
PhDs / Projects Guided	No	

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization

ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed
	Nil	

iii.Consultancy

Title of the work	Amount in Rs.	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
	Nil			

7. Awards Received

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8. Publications

i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
01	Fluoride Removal Using Activated Alumina: A Case Study of Bhooma ChotaWater	R.Agrawal,M. K. Mishra, K. Margandan, K.Singh, R. Acharya, S. Sharma and K.Qanungo,	Southern Brazilian Journal of Science	Vol. 21, No. 21, 2013	Scopus	0.89	Dr. D. Scientific Consulting
02	Employment generation opportunities in fluorosis affected rural areas in India: Production of cement stabilized mud blocks using sludge from MgO-CaO-MgCl ₂ -HCl and activated alumina based defluoridation filters	R.Agrawal, K. Margandan, S. Sharma and K.Qanungo,	Materials Today:Proceedings	Volume 81, Part 2, 2023, Pages 1025-1033	both	3.1	Elsevier Ltd

03	A Review of Fluoride Removal from Groundwater	K.Margandan , R. Agrawal, and K. Qanungo	Periodica Polytechnica Chemical Engineering	63(3), pp. 425–437, 2019	both	1.4	Budapest University of Technology and Economics
04	Fabrication and Testing of Activated Alumina Based Defluoridation Filters with Yarn Cartridge,	R. Agrawal, K.Margandan , R. Acharya, S. Sharma and K.Qanungo,	International Journal of ChemTech Research	Vol.6, No. 1, p845-859, 2014.	Index Copernicus International	0.657	Sphinx Knowledge House
05	Testing of Defluoridating Filter Using MgO-CaO-CaCl ₂ for Use in Rural Rajasthan	K.Margandan , R. Agrawal, R. Acharya, S. Sharma and K. Qanungo	Southern Brazilian Journal of Science	Vol.21, No. 21, 2013, p 79-95.	Scopus	0.89	Dr. D. Scientific Consulting
06	Field Testing of a Magnesium Oxide-Lime Calcium Chloride Hydrochloric Acid Based filter	K.Margandan , R. Agrawal, R. Acharya, S. Sharma and K. Qanungo	Ovidius University Annals of Chemistry	Vol. 24, No. 1, p 43-50, 2013	UGC care, Web O Science	1.0	Sciendo (part of the De Gruyter Group)
07	Optimisation of MgO Dosage in a MgO-CaCl ₂ -Lime-HCl Based Defluoridation Technique	K.Margandan , R. Agrawal, R. Acharya, S. Sharma and K. Qanungo	Chemical Science Transition	Vol. 3(1), p79-86, 2014	Web O Science	1.0	-
08	Studies on Cement Stabilised Mud Blocks for Sludge Disposal from MgO, CaCl ₂ , CaO and HCl	K.Margandan , R. Agrawal, R. Acharya, S. Sharma and K. Qanungo	International Journal of ChemTech Research	Vol. 8, No. 1, p357-362, 2015	Index Copernicus International	0.657	Sphinx Knowledge House

	based Defluoridation Filters in Rural Rajasthan						
09	Improvement of User Friendliness of a Simple Domestic Defluoridation Unit Using Activated Alumina,	R. Agrawal, K.Margandan , R. Acharya, S. Sharma and K.Qanungo,	World journal of applied environmenta l chemistry.	Vol. 2, Iss. 1: 22-29, 2013.	IS7- S598N 2	NA	Science PG
10	Fabrication and Testing of Intermediate Level Activated Alumina Based Defluoridation Filters	R. Agrawal, K.Margandan , R. Acharya, S. Sharma and K.Qanungo,	periodico tche quimica	Vol. 10,No.19, 2013.	Scopus	0.2	The Quimica Group.
11	Improvement of User Friendliness of a Simple Domestic Defluoridation Unit Using Activated Alumina,	R. Agrawal, K.Margandan , R. Acharya, S. Sharma and K.Qanungo	Research Article	Vol. 2, Issue 1, p 22-29, 2012	Scopus	-	-

ii. National Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
01							
02							
03							

iii. National Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
01	“Fabrication and Study of a Domestic Defluoridation Filter Using Activated Alumina”	R. Agrawal, K. Singh, R. Acharya, S. Sharma, K. Qanungo	14th Punjab Science Congress, Sant Longowal Institute of Engineering & Technology SLIET, Longowal, Punjab.	Feb. 7-9th, 2011			
02	“Fabrication and Study of a High Capacity Domestic Filter Cum Defluoridation Unit,	R. Agrawal, K. Singh, R. Acharya, S. Sharma, K. Qanungo	National Conference on Green Chemistry-Safer Chemistry, Rajrishi College, Alwar, Rajasthan,	Abs. p67. 23-24th Sept., 2011			
03	Application of low Cost Defluoridation Technique Using MgO-Lime for Fluoride Removal in Rajasthan	K. Margandan, R. Agrawal, K. Singh, R. Acharya, S. Sharma, K. Qanungo,	National Conference on Green Chemistry-Safer Chemistry” Rajrishi College, Alwar, Rajasthan	p 95, 23-24th Sept., 2011.			
04	Fabrication and Design of a Low Cost Defluoridation Filter Using Activated Alumina,	R. Agrawal, K. Singh, R. Acharya, S. Sharma, K. Qanungo	15 th Punjab Science Congress, Guru Nanak Dev University	Abs.p221 Feb. 7-9th, 2012			

			(GNDU) Amritsar, B-217				
05	Low Cost Domestic Defluoridation Filter Units,	R. Agrawal, K. Singh, R. Acharya, S. Sharma, K. Qanungo	“Global Challenges- Role of Science and Technology in Giving Their Solutions” (GCRSTS), The Technological Institute of Textiles & Sciences, Bhiwani	March 3-4th , 2012.			
06	The Effect of CaCl ₂ Dosage on the in the Treatment of Fluoride Rich groundwater by MgO-Lime-CaCl ₂ -NaHSO ₄ ,	K. Margandan, R. Agarwal, S. Sharma, R. Acharya and K. Qanungo	“15th Punjab Science Congress” Guru Nanak Dev University (GNDU) Amritsar, B-217	Abs.p221 ,Feb. 7-9th , 2012.			
07	Optimisation of MgO- Lime- CaCl ₂ -NaHSO ₄ Dosage for the Defluoridation of Fluoride Rich Groundwater,	K. Margandan, R. Agarwal, S. Sharma, R. Acharya and K. Qanungo	“Global Challenges- Role of Science and Technology in Giving Their Solutions”(GCRSTS),The Technological Institute of Textiles & Sciences, Bhiwani	March 3-4th, 2012.			
08	Fabrication and Testing of Activated Alumina based Defluoridation Filters,	R. Agarwal, K. Margandan,	National Conference on Frontier sat the	Abs. 25, p90, March			

		S. Sharma, R. Acharya and K. Qanungo	Chemistry-Allied Science Interface, Department of Chemistry, University of Rajasthan, Jaipur,	14-15th ,2015.			
Conference							
01							

iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1			

v. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1				
2				
3				
4				

vi. Conference Attended (those sponsored by AICTE / ISTE/IETE/TEQIP or any other sponsoring body)

Sl. No.	Name of the workshop / Conference	Organizer	Date
	Nil		

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	Nil			

10. Membership of Professional Bodies:

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11. Any other information you will like to share about your professional experience
i. FDP attended

S.No.	Title of FDP	Venue & Date
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ii.	Administrative responsibility

Dr. Rachna Agrawal
Assistant Professor, Dept of Chemistry
JSS Academy of Technical Education, Noida