




## Faculty Profile on University Website

www.mjpru.ac.in

<b>Title</b>	<b>Dr.</b>	<b>Pramendra</b>	<b>Last Name</b>	<b>Kumar</b>	<b>Photograph</b>
<b>Designation</b>		Associate Professor			
<b>Department</b>		Chemistry			
<b>Address</b>	<b>Campus</b>	Science Block, MJPRU, Bareilly			
	<b>Residence</b>	Mahanagar, Bareilly			
<b>Mobile No.</b>		(+91) 9412602921			
<b>Email ID</b>		Personal	<a href="mailto:pramendra2002@gmail.com">pramendra2002@gmail.com</a>		
		University Domain	<a href="mailto:pramendra@mjpru.ac.in">pramendra@mjpru.ac.in</a>		
<b>Professional Networking ID, i.e. LinkedIn, Twitter</b>		<a href="https://www.linkedin.com/in/dr-pramendra-kumar-86b311123/?jobid=1234">https://www.linkedin.com/in/dr-pramendra-kumar-86b311123/?jobid=1234</a>			
<b>Educational Qualifications (Graduation Onwards)</b>					
<b>Course/Degree</b>	<b>Institution</b>		<b>Year</b>	<b>Subjects</b>	
B. Sc.	C C S University, Meerut		1998	PCM group	
M.Sc.	C C S University, Meerut		2000	Organic Chemistry	
M. Tech.	Delhi College of Engineering, Delhi		2002	Polymer Technology	
Doctorate	University of Allahabad, Allahabad		2011	Chemistry	
MBA	M J P Rohilkhand University, Bareilly		2020		
<b>Career Profile</b>					
Organization / Institution		Designation	Duration	Nature of Duties	
M J P Rohilkhand University, Bareilly		Lecturer/Assistant Professor	Since 2002 to 2016	Teaching & Research	
M J P Rohilkhand University, Bareilly		Associate Professor	2016 onwards till date	Teaching & Research	
<b>Research Interests / Specialization</b>					
Polymer modification, Green Chemistry, Solvent free synthesis, Drug delivery					
<b>Research Experience in Years - 14 Years</b>					
<b>No. of Research Scholars Successfully Guided</b>					
Name of Programme		Awarded	Under upervision		

<b>Ph.D.</b>		<b>02 Awarded</b>			<b>03</b>				
<b>M.Phil. Dissertation</b>		<b>Not applicable</b>			<b>Not applicable</b>				
<b>Researcher/Expert ID</b>	<b>Scopus</b>	<b>Orchid</b>	<b>Publons</b>		<b>Vidwan</b>	<b>Google Scholar</b>			
	<a href="https://scopus.com/authid/detail.uri?authorid=55466583100">55466583100</a>	0000-0001-9805-3669	<a href="https://publons.com/author/24342020">AAAY-2434-2020</a>		Vidwan-ID : 165171	<a href="https://scholar.google.com/citations?user=RBViZJcAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=RBViZJcAAAAJ&amp;hl=en</a>			
<b>Teaching Experience (Subjects/Courses Taught)- 21 years</b>									
PG level: - <i>Advanced Organic Chemistry, Physical Chemistry</i>									
UG level: - Polymer Science, Engineering Chemistry, Environmental Chemistry									
<b>Honours / Awards &amp; Fellowship FOR OUTSTANDING WORK</b>									
<b>Name of Award/ Fellowship</b>		<b>Awarded By</b>							
		<b>Name of Governmental Agency</b>		<b>Name of Government Supported Organization/ Department</b>		<b>Name of International Recognized Body</b>			
GATE Fellowship		MHRD, New Delhi		DCE, Delhi		MHRD			
<b>Publications /Academic Activities (Numbers Only)</b>									
Books & Monographs (Single Author)	<b>01</b>	Research Papers Published in International Journals	<b>23</b>	Papers Presented in Seminars/ Conferences	<b>14</b>	Seminars/ Conf. Organized	--	Research Projects (Completed)	<b>02</b>
Books (Co-authored)	-	Research Papers Published in Other Journals	<b>01</b>	Seminar/ Conferences Attended	<b>5</b>	Workshops Organized	<b>04</b>	Research Projects (Ongoing)	<b>01</b>
Books (Edited)	-	Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.	<b>00</b>	Sessions Chaired in Seminars/ Conferences	<b>01</b>	Membership of Academic/ Professional Bodies	<b>06</b>	Foreign Countries Visited for Academic Assignments	-
Chapters in Edited Books	<b>4</b>			Resource Lectures Delivered	<b>01</b>				

<b>Details of Publications /Academic Activities (2010 Onwards)</b>						
<b>(a) Authored Books/ Monographs</b>						
<b>Name of Book</b>		<b>Year of Publication</b>	<b>Publisher</b>		<b>ISBN No</b>	
A Text Book on the Elements of Chemical Thermodynamics and Chemical Kinetics		<b>2018</b>	SRS, Publishers and Distributors, New Delhi		978-93-85270-27-7	
Chemical dynamics & Coordination chemistry		<i>Under process year 2023</i>				
<b>(b) Edited Books</b>						
<b>Year of Publication</b>	<b>Title</b>	<b>Publisher</b>	<b>ISBN</b>	<b>DOI No.</b>	<b>Citations</b>	
<b>I. Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals, (2010 Onwards)</b>						
<b>Year of Publication</b>	<b>Title</b>	<b>Name of Journal</b>	<b>Vol./ pp</b>	<b>ISSN No</b>	<b>Citations</b>	<b>Impact Factor</b>
<b>2011</b>	Design of nano structured tamarind seed kernel polysaccharide- silica hybrids for mercury (II) removal	<i>Sep. Sci. Technol.</i>	46 / 825-838	1900-1977	<b>16</b>	<b>2.7</b>
	Carboxymethyl tamarind gum-silica nanohybrids for effective immobilization of amylase	<i>J. Mol. Catal. B: Enzym.</i>	70/67-73	1381-1177	<b>49</b>	<b>2.5</b>
	Sol-gel synthesis and characterization of adsorbent and photoluminescent nano composites of starch and silica	<i>J. of Non-Cryst. Solids</i>	357/ 194-201	0022-3093	<b>33</b>	<b>4.45</b>
<b>2012</b>	Use of microwave irradiation in the grafting modification of the polysaccharides: A review	<i>Prog. Polym. Sci.</i>	37(2)/34 0-364	0079-6700	<b>225</b>	<b>31.2</b>
<b>2013</b>	Determination of water quality index and fitness of urban water bodies in Bilari town of Moradabad (Uttar Pradesh)	<i>J. Chem. Pharm. Res.</i>	5(11)/ 726-731	0975-7384	<b>1</b>	<b>----</b>
<b>2016</b>	Evolution of surface coverage of CH <sub>3</sub> NH <sub>2</sub> PbI <sub>3-x</sub> Cl <sub>x</sub> in a heat assisted solvent vapour treatment and their effect on photovoltaic performance	<i>RSC Adv.</i>	6/94731-94738	2446-2069	<b>13</b>	<b>4.03</b>
	Improve the nature characteristics of polysaccharides by grafting	<i>Green Chem. Techno. Lett.</i>	2 (3)/151-159	2455-3611	<b>7</b>	<b>1.2</b>

	through the $\gamma$ -radiation: A review					
	Polyvinyl butyral (PVB), versatile template for designing nano composites/composite materials; A review	<i>Green Chem. Techno. Lett.</i>	2(3)/185-194	2455-3611	<b>35</b>	<b>1.2</b>
<b>2017</b>	A review on the modification of polysaccharides through graft copolymerization for various potential applications	<i>Open Med. Chem. J.</i>	11/109-126	1874-1045	<b>97</b>	<b>0.5</b>
	Psyllium mucilage and its use in pharmaceutical fields, An overview	<i>Curr. Synth. Syst. Biol.</i>	5(1)/100-0134	2332-0737	<b>37</b>	<b>1.3</b>
<b>2018</b>	Synthesis and characterization of modified chitosan <i>via</i> microwave route for novel antibacterial application	<i>Int. J. Biol. Macromol.</i>	107/1388-1394	0141-8130	<b>40</b>	<b>8.02</b>
	Microwave assisted synthesis of binary grafted psyllium and its utility in anticancer formulation	<i>Carbohydr. Polym.</i>	179/408-414	0144-8617	<b>23</b>	<b>10.7</b>
	Binary grafted chitosan film: Synthesis, characterization, antibacterial activity and prospects for food packaging	<i>Int. J. Biol. Macromol.</i>	115/341-348	0141-8130	<b>77</b>	<b>8.02</b>
<b>2019</b>	Microwave assisted synthesis of poly vinyl butyral-silica composites for mercury removal application	<i>Chem. Sel.</i>	4/1979 - 1984.	2365-6549	<b>16</b>	<b>2.3</b>
	Novel binary grafted chitosan nano-carrier for sustained release of curcumine	<i>Int. J. Biol. Macromol.</i>	131/184-191	0141-8130	<b>32</b>	<b>8.02</b>
	Synthesis and characterization of binary grafted psyllium for mercury removing toxic mercury (II) ions from aqueous solution	<i>Mater. Sci. Eng C</i>	104/109900	0928-4931	<b>29</b>	<b>8.45</b>
	Synthesis and characterization of antibacterial cross linked material of chitosan for effective dye removal and antibacterial activity	<i>Int. J. Biol. Macromol.</i>	139/752-759	0141-8130	<b>29</b>	<b>8.02</b>
<b>2020</b>	Silver nanoparticles embedded Guar Gum/ Gelatin nanocomposite: Green synthesis, characterization and antibacterial activity	<i>Colloid and Interface Sci. Commun.</i>	35/100242	2215-0382	<b>52</b>	<b>5.6</b>
	A review on synthesis of graft copolymers of Chitosan and	<i>Int. J. Biol. Macromol.</i>	163/2097-2112	0141-8130	<b>101</b>	<b>8.02</b>

	their potential applications.					
	Synthesis and characterization of Novel green adsorbent hydrogel for efficient removal of methylene blue dye	<i>Pol. polar Res.</i>	41(11)/1-22	0138-0338	----	----
<b>2021</b>	The effect of cesium and lead bromide quantum dots on the performance of copper phthalocyanine-based organic field effect transistors	<i>Nanotechnol.</i>	32 195208	0957-4484	10	<b>3.9</b>
	Facile synthesis of novel pH-sensitive grafted guar gum for effective removal of mercury (II) ions from aqueous solution	<i>Carbohydr. Polym. Technol. Appl</i>	2021, 2, 100110	2666-8939	<b>15</b>	<b>5.5</b>
<b>2023</b>	Synthesis of pH-sensitive nanocarrier-based acrylic acid-grafted-flaxseed gum for quercetin delivery for anti-cancer application	<i>Bioact. Carbohydr. Dietary Fibre</i>	30, 100370	2212-6198	----	<b>3.8</b>
	Microwave assisted synthesis of curcumin encapsulated silica-chitosan composite for drug release study	<i>Bulg. Chem. Commun.</i>	<i>Accepted</i>	0324-1130	----	<b>0.5</b>

**(d) Chapter/Paper Published in Edited Books**

Publication	Title of the Book	Title of the Chapter	Name & Address of Publisher	Year	ISBN	D OI	Citation Google/web of science
National/International							
International	Applications of Nanocomposite Materials in Drug Delivery	Alginate hydrogels as colon-targeted drug delivery system	AAP, CRC press, Taylor and Francis	<b>2019</b>	978-0-42902-343-9		<b>2</b>
International	Recent Developments in Bio-Nanocomposites for Biomedical Applications	Polysaccharide-silica nanocomposites: Synthesis, Characterization and potential applications	Nova Publishers, New York, USA, pp.133-152	<b>2010</b>	978-1-61761-513-9		

International	Handbook of Biopolymers and Their Applications	Cassia Seed Gums: A renewable reservoir for synthesizing high performance materials for water remediation	Wiley-Scrivener, USA	2012	978-0-47063-923-8	DOI:10.1002/9781118164792	9
National	Advancement and Futuristic trends in materials science	Role of synthetic polymers for the fabrication of isotropic pitch-based carbon fiber	Allied Publishers, Delhi	2011	978-81-8424-706-0		
<b>I Invited as Resource Lectures Person/Examiner/Expert</b>							
<b>Resource person</b>	<b>Detail of Event</b>	<b>Title of Lecture</b>	<b>Date</b>	<b>Institution</b>			
<b>Invited Talk</b>	National Seminar on Advances in Spectroscopy	Raman Spectroscopy	06 Jan. 2017	KCMT, Bareilly			
<b>(f) Seminars/Conferences/Workshops Organized</b>							
<ul style="list-style-type: none"> <li>✚ National Workshop on Recent Advances in Organic and Polymer Chemistry (RAOPC-14), FDP, 17-22 Feb. 2014), Applied Chemistry, MJPRU, Bareilly. (<b>Organizing Secretary</b>)</li> <li>✚ Symposium on <i>Wavelets and its applications in Engineering problems</i>, 20-21 Dec. 2016, FET, MJPRU, Bareilly (<b>Programme Coordinator</b>)</li> <li>✚ FDP on <i>Innovative research on Materials in Science and Engg.</i>[IRMSE-16], FET, MJPRU, Bareilly, 17-22 April 2016. (<b>Assistant. Coordinator</b>)</li> </ul>							
<b>(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)</b>							
Year	Name of Project	Funding Agency	Amount (lacs)	Duration			
				From	Till		
2013	<i>Microwave-Assisted Synthesis of Polymer-Silica Composites for Enzyme Immobilization studies</i>	UGC, New Delhi	9	2013	2016		
2019	<i>Minor research project (Seed Grant)</i>	TEQIP-3 MJPRU, Bareilly	2	2019	2020		
2022	<i>Designing of Bio-Degradable Polymer Films having Optimum Mechanical Properties for Carry Bag Usage</i>	U P State govt. Uttar Pradesh	5	2022	Ongoing		
<b>(h) Administrative Positions/Assignments Held</b>							
Post	Organization	Duration					
		From	To				
ADSW	MJPRU, Bareilly	2011	Till date				
<b>(i) Seminar/Conference Presentations</b>							

1. *Microwave promoted graft copolymerization of ethyl acrylate on to guar gum*, **National Conference** on Application of material science of the society-second series, September-12-13, 2009, Department of Chemistry, C.M.P. College, Allahabad. pp- 23.
2. *Synthesis and Characterization of Guar gum-graft poly(acrylamide) templated silica: A luminescent adsorbent nanocomposite*, **97<sup>th</sup> Indian Science congress**, January 03-07, 2010, Hosted by Indian Space organization Research (ISRO) and University of Kerala, Thiruvananthapuram, Kerala, (India) [OP-3].
3. *Modification of Cassia Seed Polysaccharides for Water Remediation*, **National Conference** on Emerging Trends in Biochemistry & Satellite Symposium of the Academy of Environmental Biology (AEB), Department of Bio-Chemistry, University of Allahabad, Allahabad, January 23-24, 2010, P-52.
4. *Synthesis of Silica Nano Bio-composites for Bi-valent metal ions extraction from their aqueous Solutions*, **National Seminar** on Contemporary Research in Material Science & Chemical Biology, January 31<sup>st</sup> to 2<sup>nd</sup> February-2010, Department of Chemistry, University of Allahabad, Allahabad.
5. *Synthesis of vinyl modified chitosan using redox system via thermal route*, **CONIAPS-XI<sup>th</sup> Conference of International Academy of Physical Sciences**, University of Allahabad, Allahabad, February 20-22, 2010, C031.
6. *Microwave Assisted Synthesis of Poly(Acrylic acid)-g-Cassia-javanica Seed Gum and its Application for Heavy Metal Extraction from Aqueous Solution*, **National Seminar** on “Recent Trends in Chemical Sciences”, Department of Chemistry, A.P. S. University, Rewa (MP). 12-13 May 2010, (RCTS-OP-09).
7. Enzyme immobilization on polymer-silica nanocomposites, **National seminar** on “Interface of Industry, Biology and Chemistry Research in 21st Century, Department of Chemistry, Allahabad University, Allahabad, 05-07th February, 2011, pp-13.
8. Fabrication of silica nano bio-composites templated on to polysaccharides as potential metal adsorbent, **National Seminar** on Advancements and Futuristic trends in material science (AFTMS 2011), Physics Department, M. J.P. Rohilkhand University, Bareilly, 26-27th March, 2011, OP-16.
9. Role of synthetic polymers for the fabrication of isotropic pitch based carbon fiber, **National Seminar** on Advancements and Futuristic trends in material science (AFTMS 2011), Physics Department, M.J.P. Rohilkhand University, Bareilly, 26-27th March, 2011, OP-52.
10. Synthesis of Organic-Inorganic composites through non-conventional method. One day **international Seminar** on Recent trends on materials science (RTMS-2013) organized by Department of Physics (FET), M J P Rohilkhand University, Bareilly on November’21-2013.
11. Modification of polysaccharides through high energy radiation initiation techniques, **National Conference** Brass Metal works, Health & Environment, Sponsored by ICSSR, 02-03 May-2015, at MM Degree College, Katghar, Moradabad.
12. Synthesis and characterization of Carboxymethyl tamarind gum/silica nanohybrids for enzyme immobilization study. **National Conference** on advanced materials and processing (CAMP-2015) MNIT, Jaipur, 2-4 Dec. 2015.
13. Improvement in native characteristics of ..... by gamma radiation, **2<sup>nd</sup> International conference** 2016, on *Innovations in chemical, biological and Environmental Sciences* at SS (PG) college, Shahajampur, UP, on 12<sup>th</sup> February, 2016.
14. Spectroscopy! Powerful...for chemists, **National seminar** on Advances in spectroscopy (AIS-2017) at KCMT, Bareilly on 6<sup>th</sup> Jan. 2017.
15. One Day **Live Webinar** on “Opportunities and challenges of virtual labs and

simulation” held on 30<sup>th</sup> August 2020 at Department of Chemistry, S. S. College, Shahajanpur.

**(j) Memberships of Academic/Professional Bodies**

- Elected Fellow, *Indian Chemical Society, Kolkata* (No. F/7949/ (LM).
- Life Member, *Indian Science Congress Association, India* (L14369).
- Life Member of *Material Research Society of India, IISc Bangalore, India* (LMB1268).
- LifeMember, *The Society for Polymer Science (NCL Pune)*. No. is 292.
- LifeMember, Asian polymer Association, New Delhi
- LifeMember, nano and material society, Farah, Mathura

**(k) Participation in Community Service / Exchange Programme / Consulting Activity**

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**(l) International Academic Exposure**

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**(m) Any Other Details (FDP/OP/RC/STC attended)**

1. **Faculty Development Programme** on “Ambient Air Quality and Stack Monitoring” under the sponsorship of TEQIP-II organized by Department of Chemical Engineering (FET), M.J.P. Rohilkhand University Bareilly, during 08-10 Feb. 2016.
2. One-week **National workshop** on “Innovations and Research Trends in Mechanical and Production Engineering under FDP scheme sponsored by World Bank under TEQIP-II at Department of Mechanical Engineering (FET), M.J.P. Rohilkhand University Bareilly, during 25-29 April 2016.
3. Six days **National workshop** on “Innovative Research on Materials in Science & Engineering” under FDP scheme sponsored by World Bank under TEQIP-II at Department of Applied Chemistry (FET), M.J.P. Rohilkhand University Bareilly, during 17-22 April 2016.
4. **Faculty Development Programme** on “Ambient Air Quality and Stack Monitoring” under the sponsorship of TEQIP-II organized by Department of Chemical Engineering (FET), M.J.P. Rohilkhand University Bareilly, during 08-10 Feb. 2016
5. **Symposium** on “Wavelet and Its Applications in Engineering Problems” organized by Department of Mathematics (FET), M.J.P. Rohilkhand University Bareilly, during 20-21 December 2015.
6. Six days **International workshop** on Futuristic Materials: Characterization, Properties & Applications in Technologies (FMCPAT-14) under TEQIP-II (World Bank Scheme) at Department of Applied Physics (FET), M.J. P. Rohilkhand University Bareilly, during 17-22 July 2014.
7. **Faculty Development Programme** on “Frontier Areas on Research in Mechanical Engineering” under TEQIP-II (World Bank Scheme) at Department of Mechanical Engineering (FET), M.J. P. Rohilkhand University Bareilly, during 25-29 March. 2014.
8. Six days **National Workshop** on “Recent Advances in Organic & Polymer Chemistry” under TEQIP-II (world Bank Scheme) at Department of Applied Chemistry (FET), M.J. P. Rohilkhand University Bareilly, during 17-22 Feb. 2014.
9. TEQIP-II sponsored **National Workshop** on Communication Skills for Change management in Classroom” under TEQIP-II (world Bank Scheme) at Department of Humanities (FET), M.J. P. Rohilkhand University Bareilly, during 9-14 Dec. 2013.



10. **International Workshop** on “Biomedical imaging (BMI-2012)” Conducted by Department of CSIT (FET) M J P Rohilkhand University, Bareilly on 12-13 May 20012.
11. UGC sponsored **Refresher programme** in Chemistry Discipline (ID) from *Jan. 27, 2012 to Feb. 18, 2012* at, University of Lucknow, Lucknow.
12. A Five days **SERC school** on “Polymer Based composites & Nano composites” sponsored by DST, New Delhi, India from 26<sup>th</sup> November to 1<sup>st</sup> December, 2007 at Centre for Polymer Science and Engineering (CPSE), Indian Institute of Technology, Delhi.
13. UGC sponsored **Refresher programme** in Chemistry Discipline from *Nov. 17, 2006 to Dec. 7, 2006* from Department of Chemistry, University of Allahabad, Allahabad.
14. UGC sponsored **orientation programme** from *March 16, 2005 to April 12, 2005* from ASC, University of Allahabad, Allahabad.



(Dr. Pramendra Kumar)  
Applied Chemistry