University of Kota

MBS Marg, Kota (Rajasthan)-324 005

Faculty Profile

Contact Details:		
Name	**: Dr. Shweta Vyas**	
Designation	**: Associate Professor**	
Address	**: Department of Pure & Applied Chemistry** **Nagarjun Bhawan, Room no.124, University of Kota** **Kota (Rajasthan)-324005, INDIA**	
Phone Number	: **+91-9460427477 (Mobile)** **+91-744-2471742 (Office)**	
E-mail IDs	: *shwetavyas@uok.ac.in ; drshwetavyas12@gmail.com*	

Educational Qualifications:		
Ph.D.	: Jai Narayan Vyas University, Jodhpur	**2003**
M.Sc.	: Jai Narayan Vyas University, Jodhpur	**2001**
B.Sc.	: Jai Narayan Vyas University, Jodhpur	**1999**
Title of Ph.D. Thesis	:STRUCTURE REACTIVITY CORRELATIONS IN SOME SOLUTION PHASE REDOX REACTIONS OF ORGANIC FUNCTIONS	

Awards:

- Completed phase-1 **WiSLP** training at DST, New Delhi during 21st-25th January **2025** & Selected by **DST, New Delhi** for phase-2 advanced leadership training program for the Women in Space and Allied Science Leadership Program **(WiSLP)** conducted at **Coventry University, United Kingdom (UK)** held during 19th-26th March, 2025 under UKIERI platform jointly conducted by DST, New Delhi & British Council UK.
- Received **International Travel Support ITS-Grant (2024)** fro**m** Anusandhan National Research Foundation **(ANRF)** SERB, New Delhi, Govt. of India, in July 2024 to deliver invited talk at **German University in Cairo, Egypt** during 07-09 September 2024.
- **Prof. H.J. Arnikar Award-2023** by Indian Council of Chemists, Agara,U.P.India.
- **INSA, Visiting Scientist Award-2022 by** Indian National Science Academy, New Delhi
- **Research Excellence Award** by the **Indian Chemical Society, Kolkata** during 58th Annual Convention of Chemists, 2021 & International Conference on "Recent Trends in Chemical Sciences (RTCS-2021)"

organized during December 21– 24, 2021.

- **Best paper Presentation Award** in International Conference ICRIETMR-2018,held at Balkrishna Institute of Technology, Ranpur, Kota during 25-26th December 2018.
- **Research Fellowship** by JNVU, Jodhpur during Ph.D.
- **Junior Research Fellowship Award** from Defense Research and Development Org.New Delhi at Defence laboratory,Jodhpur(Rajasthan).
- **Silver medal** by Adrash Mahavidhylaya, K.N. Nagar IInd extension, Jodhpur for Best Faculty of the Year
- State level **67th Rank** in Merit of Senior Secondary Exam. Board of secondary Examinations, Ajmer (Raj.)

Teaching/Resaerch Experience:		**22 Years**
	: University of Kota, Kota, Rajasthan	**13 Years 03 Months**
	: Adarsh Mahavidhyalaya,Jodhpur,Rajasthan	**04 Years 14 Days**
	: Guest Faculty in Jai Narayan Vyas University, Jodhpur	**02 Years**
	: Defence Lab,Jodhpur(DRDO),Rajasthan	**02 Years**

Career Profile:

• JRF, Defence Lab,Jodhpur,DRDO	November 2002- November 2004
• Guest Faculty in Jai Narayan Vyas University, Jodhpur	Academic sessions 2005-06 and 2007-08
• Lecturer at Adarsh Mahavidhyalaya,Jodhpur,Raj	July 2008 to July 2012
• Assistant Professor, University of Kota, Kota, Rajasthan	July 2012 to July 2024
• Associate Professor, University of Kota, Kota, Rajasthan	July 2024 to Till Date

Job Responsibilities:

Current:

- Convener, Mahatma Gandhi Peeth.
- Co-Coordinator, UHV Cell
- Coordinator Skill Development Cell
- Co-Editor University Newsletter-UOK: The Mirror
- Internal Coordinator PG-Botany Course
- Incharge, CAIF Centre
- Member, Women Cell
- Member, Anti Ragging Cell
- Member, Disable Cell

Previous:

- Convenor, Hindi Cell(2015-2023)
- Coordinator Ph.D. Course Work 2020 and 2022
- Coordinator B.Sc. Biology UG Course

Subject / Papers Taught:

(A) PG Level

o Organic Synthesis o Green Chemistry o Retrosynthesis o Photochemistry

o Natural Products o Chromatography o Pericyclic Chemistry o Bio-organic Chemistry

(B) UG Level

o Inorganic Chemistry o Organic Chemistry o Physical Chemistry o Analytical Chemistry

Research Interest:

o Green Chemistry o Material Synthesis o Water Pollution o Kinetics o Nanotechnology

Research Guidance:

Ph. D. Degree Awarded:

S. No.	Name of Scholar	Title of the Ph.D. Thesis
1.	Megha Gang	Studies on Greener Synthesis of Activated Carbon-Based Nanoparticles, their Characterization and Application in Adsorptive Removal of Heavy Mental Ions
2.	Kanchan Ranwa	Studies on Greener Synthesis of Nanomaterials and Their Characterization for Application in Dye Sensitized Solar Cells
Thesis Submitted		
3.	Preeti Soni	Synthesis And Characterization of Some Potential Lignocellulosic Nanosorbents for Removal of Heavy Metals Form Waste Water
Ongoing Research Works		
4.	Jitendra Kumar Kameliya	Synthesis and Characterization of Some Hybrid Layered Double Hydroxide Materials for Removal of Anionic Dyes from Aqueous Waste
5.	Tarun Kumar Jain	Fluoride Mapping Of Water Sources of Kota & Bundi Districts of Rajasthan And De-Fluoridation Using Indigenously Developed Clay Nanocomposites
6.	Om Shanker Nagar	Synthesis and Characterization of Metal Organic Framework (MOF), Layer Double Hydroxide (LDH) and their composites for Supercapacitors Applications
7.	Harshit sharma	Study of electrochemical and electronic structure of carbon based compounds and manganese oxide/tungsten oxide nanocomposite materials.

Research Projects Completed:

S. No.	Scheme & Title of Project	Amt. (in Rs)	Funding Agency	Duration
1.	**INSA, Visiting Scientist Award** Work on Hydrothermal Synthesis Methods for Carbon Dots	**33000/-**	Indian National Science	November2022-December 2023

			Academy, New Delhi	
2.	**ASEAN-INDIA Collaborative R&D Project** "Remediation of toxic Heavy metal pollutants from wastewater using Nanobiomas" in collaboration with HNU, **Vietnam,** Sawankhet University-**Laos,** and Mandalay Uniersity **Myanmar**	**22, 38, 096/-**	SERB-DST, New Delhi	September 2019-March 2022
3.	**UGC-Start-Up Grant,** "A comparative Study of kinetics and mechanism of some Redox reactions"	**600000/-**	UGC, New Delhi	July 2014-July2016

Research Publications:

1. Rawat, Ekta, Suman Sharma, Shweta Vyas, Omar Awad Alsaidan, Devesh U. Kapoor, and Bhupendra G. Prajapati. "Advances in alginate-based nanoformulations: Innovative and effective strategies for targeting and treating brain disorders." *International Journal of Pharmaceutics* 681 (2025): 125851.(IF 5.2)
2. Adedokun, Oluwaseun, Abeeb O. Muraina, Peverga R. Jubu, Olayinka J. Oyewole, Zaki I. Zaki, Mohamed E. Khalifa, **Shweta Vyas***, Oluwatosin S. Obaseki, and Fong K. Yam. "Synergistic enhancement of photoelectrochemical water splitting by Ag and Zn nanoparticle-decorated TiO2 nanorods." Journal of Materials Science: Materials in Electronics 36, no. 11 (2025): 644, https://doi.org/10.1007/s10854-025-14701-6 (IF2.8)
3. Adedokun, Oluwaseun, Abeeb O. Muraina, Olayinka J. Oyewole, **Shweta Vyas**, Mohamed M. Ibrahim, Gaber AM Mersal, Gbemiga M. Lana, Oluwatosin S. Obaseki, and Fong K. Yam. "Enhanced Photoelectrochemical Properties of TiO2 Nanorods decorated with Ag-Zn Bimetallic Nanoparticles." Journal of the Indian Chemical Society (2025): 101708. https://doi.org/10.1016/j.jics.2025.101708 (IF 3.2)
4. Prajapat, Kamal, Ujjwal Mahajan, Mahesh Dhonde, Kirti Sahu, P. Sakthivel, **Shweta Vyas,** and Parasharam M. Shirage. "Anthocyanin-sensitized Cu-doped TiO2 nanoparticles for efficient and sustainable DSSCs." Materials Advances (2025), 10.1039/D4MA01297F (IF 5.2)
5. Vijayarangan, R., K. Gayathri, Sakar Mohan, R. Ilangovan, Inas A. Ahmed, Salah M. El-Bahy, and **Shweta Vyas**. "Influence of ligands in Fe-MOFs on deriving iron oxide (α-Fe2O3) nanostructures for enhanced photocatalytic degradation and water splitting reactions." Surfaces and Interfaces 56 (2025): 105726, https://doi.org/10.1016/j.surfin.2024.105726, (IF 5.7)
6. K. Ranwa, H. R. Khakhal, D. Kharkwal**, S. Vyas***, R. Ejaz, I. Abid, H. Rizwana, S. Aghayeva, and R. Iqbal. "Natural pigment based dye sensitized solar cells: photovoltaic studies: a sustainable energy solution." (2024), https://doi.org/10.30955/gnj.06508 (IF1.8)
7. Prajapat, Kamal, Ujjwal Mahajan, Ashok Kumar, Mahesh Dhonde, Kirti Sahu, **Shweta Vyas**, Yasser

M. Riyad, and Zeinhom M. El-Bahy. "Next-generation counter electrodes for dye-sensitized solar cells: A comprehensive overview." Sustainable Materials and Technologies (2024): e01178 (IF 8.7) https://doi.org/10.1016/j.susmat.2024.e01178

8. Kameliya, Jitendra, N. S. Leel, Gandhi Sonam Mukeshchandra, Mohamed E. Khalifa, Salah M. El-Bahy, and **Shweta Vyas*** "Rapid Removal of Methyl Orange from Aqueous Media by Modified Mg-Al Layered Double Hydroxides." Journal of the Indian Chemical Society (2024): 101355(IF3.2)
9. Vijayarangan, R., S. Bharathkumar, Sakar Mohan, Hector Valdes, R. Ilangovan, Mohammed A. Amin, **Shweta Vyas,** and Zeinhom M. El-Bahy. "Rationalizing Fe-Modified TiO2 through doping, composite formation, and single-phase structuring for enhanced photocatalysis via inter-and intra-charge transfers." Materials Science and Engineering: B 309 (2024): 117652 (IF 3.9)
10. Megha Gang, Awais Munir, Ghulam Murtaza, Rashid Iqbal, Asma Majeed, Muhammad Shoaib, **Shweta Vyas***, Iftikhar Ahmed, M. I. Akram, Zahra Ejaz, Allah Ditta, Waleed A. A. .Alsakkaf, and Jawaher Alkahtani. "Agro-Waste-Based Bio-Nanocomposite for the Mitigation of Pb (II) Ions from Water", Polish Journal of Environmental Studies (2024).doi:10.15244/pjoes/183450 (IF 1.4)
11. Ranwa, Kanchan, Hukma Ram Khakhal, Shreyas Pansambal, Rajender S. Varma, and **Shweta Vyas*** "A Comparative Study on Optoelectronic Properties of Dye-sensitized Solar Cells using TiO2-ZnO Photo anodes." Indian Journal of Pure & Applied Physics (IJPAP) 62, no. 4 (2024): 304-309(IF 0.7)
12. **Shweta Vyas*,** Nitrogen Doped Carbon Dots: A Brief Review on Heavy Metal Ion Sensing, JST: Engineering and Technology for Sustainable Development Volume 33, Issue 4, October 2023, 049-055, https://doi.org/10.51316/jst.169.etsd.2023.33.4.7, ISSN-2734-9381.
13. Haider, M.W., Nafees, M., Iqbal, R. **S.Vyas** etal. Postharvest starch and sugars adjustment in potato tubers of wide-ranging dormancy genotypes subjected to various sprout forcing techniques. Sci Rep 13, 14845 (2023). https://doi.org/10.1038/s41598-023-37711-y (IF 3.8)
14. Kameliya, J.; Verma, A.; Dutta, P.; Arora, C.; **Vyas, S. *;** Varma, R.S. Layered Double Hydroxide Materials: A Review on Their Preparation, Characterization, and Applications. Inorganics 2023, 11, 121. https://doi.org/10.3390/inorganics11030121 (IF3.0)
15. Megha Gang and **Shweta Vyas***, Utilization of Ice Apple Fruit Shell Waste Nanocomposites for Removal of Chromium Ion from Aqueous Media, IJSRED,5(5),542-548, 10.5281/zenodo.7240696 (ISSN 2581–7175)
16. Pansambal, S., Oza, R., Borgave, S. , **Vyas S.**, et al. Bioengineered cerium oxide (CeO2) nanoparticles and their diverse applications: a review, Appl Nanosci (2022). https://doi.org/10.1007/s13204-022-02574-8 (IF 3.6)
17. Megha Gang, Feka Danauta Paschal, **Shweta Vyas***, Plant Extract Mediated Green Synthesis Of Nanoparticles: A Brief Review, Epra International Journal Of Research And Development (Ijrd) 7 (7), 63-67, https://eprajournals.com/IJSR/article/7289 (ISSN 2455-7838)

18. Preeti Soni, **Shweta Vyas*** Studies on X-Ray Diffraction (XRD) patterns of Soya-hulls for Interpretation of Crystallinity Index. Asian Journal of Research in Chemistry. 2022; 15(3):225-7. 10.52711/0974-4150.2022.00040, (ISSN 0974-4150)
19. **Shweta Vyas***, Preeti Soni, Nguyen Thi Ha, Tran Van Son, Nguyen Minh Phuong, Nguyen Manh Khai, "Agro-wastes for Aqueous Heavy Metal Mitigation: A Way toward Circular Economy" 2022, IJONS, 12, (70),37750-56(ISSN 0976 – 0997) (IF 3.08)
20. Preeti Soni, **Shweta Vyas***, "Removal of Iron from Aqueous Media Using Surface Modified Soya Hulls: Optimizing Batch Adsorption Conditions", 2022, IJONS, 12, (70), 37817-23, (ISSN 0976 – 0997)(IF3.08)
21. **Shweta Vyas*,** Carbonaceous Nanomaterials For Water Pollution Remediation: An Overview, EPRA IJMR, Volume: 7, Issue: 1, January 2021,405-410, (ISSN 2455-3662)
22. Arpita Vyas, **Shweta Vyas**, Vimla Choudhary and Vinita Sharma, Oxidation of Aliphatic Primary Alcohols by Quinolinium Dichromate: A Kinetic Study, Journal of Interdisciplinary Cycle Research, Volume XIII, Issue III, March/2021,1333-1343 (ISSN 0022-1945)
23. Megha Gang and **Shweta Vyas***, Heavy Metal Remediation by Nanosorbents: A Short Review, RRJCHEM | Volume 8 | Issue 2 | May, 2019,15-19, e-ISSN:2319-9849 (IF3.8)
24. Kanchan ranwa, **Shweta Vyas*** A Comparative Study on Conventional and Greener Synthesis of Nanoparticles, 2019, AJEEE, 4(4),1-4(ISSN 2456-1037)
25. Dye Sensitized Solar Cell: An Approach for Solar Energy Utilization, **Shweta Vyas***, International Conference proceeding paper in ICRIETMR-2018, ISBN 978-81-930823-3-1, pp 135-138.
26. Kinetics and Mechanism of Oxidation of some Thioacids by Pyridinium Dichromate Rekha Sharma, Deepika Soni, Kamla, **Shweta Vyas**,Laszlo Kotai and Pradeep K. Sharma Journal of Applicable Chemistry, 2018, 7 (6):1780-1786(ISSN 2278 – 1862)
27. **Shweta Vyas***, Studies on Greener synthesis of Nanomaterials from Agrowastes, 2017, IJMTER,04,(10), 152-154.doi : 10.21884/ijmter.2017.4321.yowyg
28. M. Sharma1, U.Songara, P. Swami, P. Purohit, **Shweta Vyas** and Pradeep K Sharma, Structure-reactivity correlation in oxidation of substituted benzyl alcohols by Tetraaminecopper(II)bis(permanganate) Int. J. Chem. 2016,Vol 5 (1),74 – 82.
29. Rao, S. Panwar, Om Prakash, **Shweta Vyas**, and Pradeep K. Sharma,Kinetics and Mechanism of the Oxidation of DL-Methionine by Morpholinium Fluorochromate, JCBPS; Section A; 2016,Vol. 6, No. 3;876-884.
30. U.Soni,D.Yajurvedi, **Shweta Vyas**, P.K.Sharma, Correlation ananlysis of reactivity in the oxidation of substituted Bezaldehydes by bis (dipyridinene silverI) dichromate, 2015,Eur.Chem.Bull.,4(9),442-449.
31. **Shweta Vyas*,** Green Chemicals from Renewable Sources : A Mini Review, 2015, IJIRSET, 4(3),

1365-1369 (ISSN 2319 – 8753) 10.15680/IJIRSET.2015.0403079

32. Seema Panwar, Shilpa Pohani, Preeti Swami, **Shweta Vyas** and Pradeep K Sharma, Oxidation of some aliphatic aldehydes by quinolinium chlorochromate: A kinetic and mechanistic study. Eur. Chem. Bull., 2013, 2(11), 904-909
33. D. Sharma, P. Panchariya, **Shweta Vyas**, L. Kotai and Pradeep K. Sharma, Kinetics and mechanism of the oxidation of secondary alcohols by Imidazolium Fluorochromate, Int. J. Chem., 2012, 1(1), 29 – 37.
34. Amit Daiya, **Shweta Vyas**, Anita Kothari, P. Mishra, S. Agarwal and Vinita Sharma. Kinetics and Mechanism of the Oxidative Regeneration of Carbonyl Compounds from Oximes by Imidazolium fluorochromate (IFC) J. Chem. Biol. Phys. Sc., 2012, 2(3) 1271–1280.
35. Pohani, P. Purohit, **S. Vyas** and Pradeep K. Sharma.,Kinetics and mechanism of the oxidation of oxalic and formic acid by tetraethyl-ammonium chlorochromate (TEACC)S. J. Indian Chem. Soc., 2012, 89(3) 363–369.
36. Jagrity Khatri, D. Sharma, **S. Vyas,** Om Prakash and Vinita Sharma, Kinetic study of oxidation of lower oxyacids of phosphorous acids by Quinolinium chlorobromate(QCC) Int. J. Chem., 2012, 1(3), 353-60.
37. Deepika Baghmar Priyanka Purohit, **Shweta Vyas** and Vinita Sharma.Kinetics and mechanism of the oxidation of unsaturated acids by imidazolium fluorochromate (IFC) Int. J. Current Chem., 2011, 2(1), 9–18.
38. K. Vadera , M. Patel, **S. Vyas,** P. Purohit, P. Pancharia and Pradeep K. Sharma.Kinetics and mechanism of the oxidation of primary aliphatic alcohols by tetraethyl- ammonium chlorochromate (TEACC) Int. J. Chem. Sci., 2011, 9(3) 1094–1106.
39. Deepika Baghmar, P. Purohit , **S. Vyas** and Vinita Sharma ,Oxidation of some vicinal and non-vicinal diols by imidazolium fluorochromate: A kinetic and mechanistic approach, J. Ind. Council Chem., 2010, 27(2) 134–139.
40. S. Pohani, P. Pancharia, P. Purohit, **S. Vyas** and Pradeep K. Sharma. Correlation analysis of reactivity in the oxidation of some vicinal and non-vicinal diols by tetraethylammonium chlorochromate (TEACC) Int. J. Chem. Sci., 2010, 8(3) 1365–1378.
41. **Shweta Vyas*** and Pradeep K. Sharma,Kinetics and mechanism of the oxidation of some diols by Quinoliniumbromochromate. Indian J. Chem., 2004, 43A, 1219-23.
42. **Shweta Vyas*** and Pradeep K. Sharma, Kinetics and mechanism of the oxidation of some thioacids by Quinolinium bromo chromate, Int. J. Chem. Sci., 2004 2(1) 13-20.
43. **Shweta Vyas*** and Pradeep K. Sharma, Kinetics and mechanism of the oxidation of some unsaturated acids by Quinolinium bromochromate, J. Indian Chem. Soc., 2003, 80, 820-23

Invited Lectures/ Chair Person in Conferences /Symposia / Workshops:

1. Invited Speaker for centenary year celebration of **Indian Chemical Society,** Kolkata for 61st Annual Convention of Chemists & international conference on "Emerging Trends in Chemistry to Revolutionize Indian Chemical Industries for Viksit Bharat@ 2047" held at JECRC University, Jaipur, Rajasthan during December 19-21, 2024.
2. Invited speaker at 7th International Hybrid Conference of **Society of Leather Technologists & Chemists of Nigeria (SLTC) of Nigerian Institute of Leather and Science Technology (NILEST), Zaria, Nigeria** during 04th-07th November2024.
3. Invited speaker at **German University in Cairo, Egypt** during 14th Arab International Conference on Polymer Science and Technology during September 07-09, 2024.
4. Invited talk during 40th Annual conference of Indian Council of Chemist-**ICC 2023,** held at Dept. of Pure & Applied chemistry, University of Kota, during 21-23rd December 2023.
5. Delivered talk at **Hanoi University of Science and Technology (HUST), Vietnam, Hanoi,** during 13th International Forum on Green Technology and Management–IFGTM 2023on the theme of Innovating Towards Net Zero, on Nitrogen doped carbon dots: A brief review on heavy metal ion sensing on 12th October 2023.
6. Invited Speaker and Moderator for 15th Edition of International Conference on Catalysis, Chemical Engineering and Technology"(Hybrid Event) held during May 22-23, 2023 in **Tokyo, Japan**, CCT-2023.
7. Delivered Expert Lectures as Recourse Person during RTU (ATU) **TEQIP-III sponsored Students' Workshop (Remedial Classes)** On Engineering Chemistry from 18/01/2021 – 22/01/2021.
8. Delivered **expert lectures** during 19th and 24th September 2020 Course Work organized by Directorate of Research,UOk,Kota.
9. Acted as **Chairperson in 2nd International conference in ICIRSTM-2019** during 20-21 April 2019 held at MIMT, Kota.
10. Delivered an **invited lecture** on "Interview Skills" at SDC,UOK- on 2nd February 2019 during one week training(30 January -06 February 2019) program "Make Best Out of You"
11. Delivered an **invited lecture** on "Biochemistry of Electrolyte Balance" in National Workshop & Seminar on Latest Trends in Physical Education & Sports held during 6th -7th February 2019 at Department of Physical Education, University of Kota.

Book Editor/Chapters Co-Authored

- Editor of a book entitled Recent Trends in Multidisciplinary Sciences, Volume-II, published by Learning Media Publication, Merrut, U.P., India; (2024), 1-139, ISBN 978-81-973596-6-8
- Chapter entitled "Classification of Fertilizers with their Functions", Saurabh Tyagi, Shweta Vyas, Ankur Kumar and Vikas Kumar, Recent Trends in Multidisciplinary Sciences Volume-II, 2024, 1-20.

- Chapter entitled, "Information Communication & Technology in Rural Marketing", Vaishali Malik, Saurabh Tyagi, Ashok Kumar and Shweta Vyas, Recent Trends in Multidisciplinary Sciences Volume-II, 2024, 69-75.

Conferences / Symposia / Workshop/ Other activities Organized:

1. **Co-Convener** of two days **National Workshop** on Empowering Women for Leadership Skills during 24-25 July 2025 at University of Kota.
2. **Convener,** International Webinar Series on **"Advanced Chemical Techniques"** organised by Department of Pure and Applied Chemistry, University of Kota, Rajasthan, India during 19, 25,26 June and 02, 03 July 2021.
3. Acted as **Jury and Coach** for International Educational Tournaments, organized by **AEU, Club, Russia** during February to May 2023.
4. Acted as **Panelist** in **BRICS 2nd Research Conference,** on 13th February 2023 organized by Commerce and Management Department, University of Kota,(Raj.),India.
5. Acted as **Chairperson during ICCSTD** virtual conference organized by SVNIT, Surat during 23-24 November 2021.
6. **Convener,** Hindi Cell of University organized a Seminar on हिन्दी की संवैधानिक मान्यता : वर्तमान दशा एवं दिशा on 14 September 2021.
7. **Convener,** Hindi Cell of University organized a Seminar on "उच्च शिक्षा में हिन्दी पुस्तको की महत्ता"on the occasion of Hindi Diwas on 14thSeptember 2022.
8. **Convener,** Hindi Cell of University organized extempore poem competition on the occasion of Hindi Diwas-14thSeptember 2023
9. **Convener,** Mahatma Gandhi Peeth, organized a "सर्व धर्म प्रार्थना सभा" on 02nd October 2022
10. **Coordinator** to organize a **Campus Selection Drive** for students of pharmacy and chemistry students on 18th July 2022.Pharvinex Chempharm Pvt. Ltd, Kota-a pioneer drug manufacturing company
11. **Convener,** Mahatma Gandhi Peeth of University organized Pushpanjali & Bajan Program on 02nd October 2023, 2024 & 2025.

Papers Presented in Conferences / Symposia / Seminars:

1. **Shweta Vyas** presented a poster on "Biopolymer based Nanocomposites: Sustainable Solution for Pollution Control" during 58th Annual Convention of Chemists, 2021 & International Conference on "Recent Trends in Chemical Sciences (RTCS-2021)" organized by the Indian Chemical Society, Kolkata during December 21– 24, 2021.
2. Preeti soni, **Shweta vyas** presented a paper," Interpretation of Crystallinity Index of Some Agrowastes for Cellulose Contents and Adsorption Studies" during 2nd Virtual International Conference on Chemical

Sciences in Sustainable Technology and Development (IC2S2TD-2021) 24th – 26th November, 2021,Organized by Department of Chemistry, SVNIT, Surat, Gujarat, India

3. Jitendra Kameliya and **Shweta Vyas,** presented a paper "Adsorptive Removal of Dyes from Wastewater using LDH Materials: A Brief Review" during during 2nd Virtual International Conference on Chemical Sciences in Sustainable Technology and Development (IC2S2TD-2021) 24th – 26th November, 2021,Organized by Department of Chemistry, SVNIT, Surat, Gujarat, India
4. Surabhi Singh, **ShwetaVyas** presented a paper on, "Aquatic Pollution of Heavy Metals in Major Cities of Rajasthan" during national Seminar on Emerging Pollutant in Geosphere : Impact on Environment, Management and Challenges organized by Malankara college, Tamilnadu, during 09^{th}-10^{th} July, 2021.
5. Kanchan ranwa, **Shweta Vyas** presented a paper A Comparative Study on Conventional and Greener Synthesis of Nanoparticles, in ICIRSTM-2019 during 20-21 April 2019 held at MIMT, Kota.
6. **Shweta Vyas** Presented a paper entitled "Oxidation of some Aliphatic Aldehydes by Pyridinium Dichromate : A Kinetic and Mechanistic Study", in International Conference on RAIPLS-2019, on 29^{th} January 2019 held at Department of Chemistry, University of Rajasthan, Jaipur.
7. Megha Gang, **Shweta Vyas** Presented a paper " Adsorption: An Effective Tool for Pollution Prevention, in National Seminar on Current Trends and Advancement in Chemical, Physical and Life Sciences held at JNVU, Jodhpur during 15-16 March 2019.
8. **Shweta Vyas,** Dye Sensitized Solar Cell : An Approach for Solar Energy Utilization, International Conference proceeding paper in ICRIETMR-2018, ISBN 978-81-930823-3-1, pp135-138.
9. Attended International Workshop on "Renewable Energy waste & Recycling" organized jointly by Durham University, UK and Department of Pure & Applied Physics, University of Kota during 3-4 December 2018 at University of Kota.
10. **Shweta Vyas,** Megha Gang Presented a paper "Nanomaterials for the Removal of Toxic Metal Ions from Wastewater" in Nation Conference on Recent Advances At Interfaces of Physical and Life Sciences,RAIPLS-2018,during 6-7 July 2018 at Rajasthan University, Jaipur.
11. Megha Gang,**Shweta Vyas** Presented a paper "Sources of toxic heavy metal pollutants in environment and general remediation methods of removal" in Nation Conference on Recent Advances At Interfaces of Physical and Life Sciences,RAIPLS-2018,during 6-7 July 2018 at Rajasthan University, Jaipur.
12. Workshop on "Latex- An efficient Documentation tool' organized by Department of Computer Science and Informatics on 17-18 March 2017, at University of Kota, Kota(Raj.)
13. National Conference on Modern Trend in Chemical Sciences held on 30-31 January, 2016 at Mohanlal Sukhadia University, Udaipur (Raj.) .
14. International Conference on Frontiers at the Chemistry-Allied Sciences Interfaces, held on 25-26 April 2016 at University of Rajasthan, Jaipur (Raj.).
15. National Hindi Science Conference Held on 16-17 December 2016 organized by Vigyan Bharti at

University of Rajasthan, Jaipur (Raj.).

16. National seminar on Recent Trends in Chemical Research-2016, held on 5-7February 2016, at JNVU, Jodhpur (Raj.)
17. International Conference- 5th Asia-Oceania Conference on Green & Sustainable Chemistry,15-17 January 2015, held at New Delhi.
18. Workshop on Question Repository, 8-10 February 2014 at VMOU, Kota(Raj.)
19. National seminar on pure and Applied Chemical Sciences NSPACS-2014 held on 10-11 January 2014, at JNVU, Jodhpur (Raj.)
20. Indo-Swedish Symposium on "Strategic Knowledge on Climate Change" jointly organized by Department of Pure and Applied Chemistry, University of Kota, Kota (INDIA) and Center for Climate Science & Policy Research, Linkoping University, Sweden on Oct.,09.2012
21. National Conference on Functional material NCFM-2011 held on 11th & 12th Feb.2011, Sponsored by UGC, New Delhi, Organized by Laachoo Memorial College of Science & Technology, Jodhpur (Raj.)
22. DST workshop on water purification possibilities and prospects held on 4th and 5th dec.2010 at JNVU, Jodhpur (Raj.).
23. National Seminar on Analytical Electro chemistry NSAE -2010 Held during feb.08-10, at Department of Chemistry, Jainarayan Vyas University, Jodhpur(Raj.)

Orientation/Refresher Courses/Summer School Attended:

1. Summer- School for Refresher Course at JNVU, Jodhpur from 8 June 2014 to 28 June 2014
2. 83rd orientation program in JNVU, Jodhpur from 21 January 2013 to 16 February 2013.
3. UGC-HRDC M. D. S.,University sponsored Short-Term Course on Separation techniques & Instrumental methods of Analysis, during 30 Jan.-4 Feb.2017 organized by university of Kota, Kota(Raj.)
4. GIAN,MHRD initiative Short term course on Advance Materials and Future Technologies for Solar Energy Conversion, at IIT, Jodhpur durin 8-12 January2018.

Member Board of Studies (BOS)

- HEAS department, PG Studies, Rajasthan Technical University, Kota, Rajasthan during June 2024-2027.
- HEAS department, Rajasthan Technical University, Kota, Rajasthan during 2020-2022 and 2023-2026.
- Career Point University,Kota, Rajasthan for 2022-23.

Professional Memberships:

- Indian Chemical Society, Kolkata, India
- Vijana Bharti
- Rajasthan Science Congress
- Association of Environmental Analytical Chemistry of India (AEACI)
- Indian Thermodynamic Society

Editor/ Reviewer
• **Editor** Journal Bio-Geo Material Dan Energi, **ISSN:** P-ISSN: 2808-1560 and E-ISSN: 2808-1404, https://online-journal.unja.ac.id/bigme/about/editorialTeam • **Reviewer** New Journal of Chemistry, RSC, Online ISSN 1369-9261 • **Reviewer** ChemstrySelect, Wiley-VCH GmbH, Weinheim, Online ISSN:2365-6549, Print ISSN:2365-6549 • **Reviewer** for project grant evaluation of European Science Foundation. • **Reviewer** for **Indian Journal of Science & Technology,** Online ISSN:2365-6549, Print ISSN:2365-6549 • **Reviewer** for Environmental science & Pollution Research, Electronic ISSN:1614-7499

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