

Prof. (Dr.) PREETI MEHTA

Professor, Chemistry

Dean Student Welfare

Director & Nodal Officer AIU-SU-AADC

Dean School of Basic & Applied Science (Ex)

Director IQAC (Ex)

Sangam University, Bhilwara (Rajasthan)

<https://scholar.google.com/citations?user=iAFd0L8AAAAJ>

<https://orcid.org/0000-0002-3951-6595>



Contact No.:7597858084,

E mail: preeti.mehta@sangamuniversity.ac.in, preetimehta461@gmail.com

Objective – To discover new facts and guide students for their successful life through continuous engagement in studies, research work and offering them best possible employment opportunities.

Professional Synopsis

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- A result oriented professional with around 22 years of teaching experience in academic field .

Professional Qualification

- **Ph.D.** on Topic “**Photocatalytic Bleaching of Azo Dyes and Effect of Transition Metal Ions**” from M. D. S. University, Ajmer in 2012.
- **M.Sc.** with **Ist Division** from M.L.S University, Udaipur.

Educational Qualifications:

- B. Sc. with **74%** marks from M.L.S University, Udaipur.
- XII with **75%** marks from Board of Sec. Education, Ajmer.
- X with **85 %** marks from Board of Sec. Education, Ajmer

Professional Experience

1. Sangam University, Bhilwara (Raj.); Dean; Student welfare, 1st May to till date.
2. Sangam University, Bhilwara (Raj.); Dean; School of Basic & Applied Sciences, 1st April 2022 to till date.
3. Director AIU-SU-AADC (Academic Administrative Development Center, Sangam University,

August 24, 2024- Till date

4. Sangam University, Bhilwara (Raj.): Director IQAC 1st August 2019 –August 2024
5. NAAC Coordinator of Sangam University for Ist Cycle, 2020.
University is Accredited with NAAC.
6. Sangam University, Bhilwara (Raj.); Deputy Dean; School of Basic & Applied Sciences, 1st April 2018 to 31st July 2019.
7. Sangam University, Bhilwara (Raj.); Associate Professor; Department of Chemistry, 1st March 2017.
8. Sangam University, Bhilwara (Raj.); Assistant Professor; Department of Chemistry, 1st August 2013 to 28th February 2017
9. Institute of Technology & Management, Bhilwara; Sr. Lecturer; Department of Chemistry, 09th October 2007 to 31st July 2013
10. Manikya Lal Verma, Textile College, Bhilwara; Lecturer; Department of Chemistry, August 2003 to September 2007 (Guest Faculty)

Other Professional Responsibilities [at Sangam University]:

1. Dean, School of Basic & Applied Science
2. Director AIU-SU-Academic Administrative Development Center , Sangam University
3. Director, IQAC & Accreditation, Sangam University [2018- May 2024]
4. BOS Chairman of School of Basic & Applied Sciences
5. Member of Academic Council
6. Convener of Women Development Cell: Tejaswini, SU
7. Chief Editor of SU Newsletter: Pratibimb
8. Member Research Advisory Committee
9. Academic Monitoring Committee
10. Editorial member: In SIJMR
11. Coordinator: SU CAS Committee
12. Chief Editor of Prospectus of Sangam University: Avalokan
13. Overall Students Clubs Incharge [Till 2023]
14. Deputy Dean, School of Basic & Applied Sciences [1st April 2018 to July 2020 date].
15. SU NAAC Coordinator [Ist Cycle of SU, 2019-20]
16. Member Secretary of Academic Development Committee [2017-18]
17. Member of Research & Grants Committee [2017-18]

18. Green & Social Club Coordinator: Conduct number of events and camps for Social and Environmental Awareness.
19. Center Superintendent of End Term Exam 2017-18

Life Membership: The Indian Science Association Congress

Membership Number: L44795

Editorial Board member :

1. International Journal of Environmental Chemistry,

<https://www.sciencepublishinggroup.com/journal/292/editorial-team#Editorial Board Member>

2. International Journal of Multidisciplinary Research,:

<https://sijmr.org/editorial-board/>

Patent Published:

S. No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
1.	Method for Protein Modeling for In- Silico Antimalarial against Malaria	Dr. Preeti Mehta Chetana Suwalka Manoj Joshi Dr. Arti Prasad	. 2023110168 60 A	24-03-2023	India	Published
2.	Composition of activated charcoal of Hibiscus populneus and copper nano particles for removing fluoride from water	Dr. Pankaj Sen, Prof Rajeev Mehta, Pro. Preeti Mehta et al.	2023110518 23A	01/09/2023	India	Published
3.	A method of production of hydrogen gas	Dr. Pankaj Sen, Prof Rajeev Mehta, Pro. Preeti Mehta et al.	2023110686 34 A	24/11/2023	India	Published

	from <i>prosopis juliflora</i> plant using dilute nitric acid					
4.	Composition of green synthesized silver nanoparticles for removing contaminants from industrial Wastewater	Abhilasha Bhatt, Dr. Pankaj Sen, Prof Rajeev Mehta, Pro. Preeti Mehta et al.	2023110725 26 A	24/11/2023	India	Published
5.	Precision gravimetric instruments for accurate capsule dosing in Pharmaceuticals	Dr. Pankaj Sen, Prof. Preeti Mehta et al.	6322048	14/11/2023	UK	Granted
6.	Drug Waste Management Device for safe and efficient medicine Disposal	Dr. Pankaj Sen, Prof. Preeti Mehta et al.	6329603	7/12/2023	UK	Granted
7.	Design Evaporative watch glass	Dr. Preeti Mehta, Dr. Pankaj Sen, Dr. Rajeev Mehta	399218-001	04/11/2023	India	Granted
8.	Dual Tong: Modified test tube and ignition tube holder	Dr. Preeti Mehta, Dr. Pankaj Sen, Dr. Rajeev Mehta	397261-001	29-12-2023	India	Granted

Project:

1. SERB-DST, Govt. of India, New Delhi, Sponsored International Conference on “Recent Trends & Innovations in applied Sciences for sustainable development of environment” on 22-24 January 2024.

Grant: 2 Lakh

2. National Commission for Women financially supported one day “Capacity Building & Personality Development Programme” for UG & PG Girl Students, 25 April 2023.

Grant: 1 Lakh

3. Convener NAAC Financially supported Two-Day NAAC Sponsored National Workshop on “Challenges before Higher Education Institutions in Remote Areas for Achieving Quality improvement through Assessment and Accreditation Process ” November 24-25, 2022

Research Supervisor:

Ph.D. Awarded: 1

Under Supervision: 8

S.No.	Name of the Student	Subject/Dept.	Registration No.	Guide/Co-Guide	Title	Status
1	NIRMA KUMARI DHAKER	Chemistry	2018PHCH0601	Guide	PHYSICOCHEMICAL STUDY OF SOIL AND GROUNDWATER QUALITY IN THE VICINITY OF AN INDUSTRIAL AREA OF BHILWARA CITY, RAJASTHAN	Awarded
2	ANITA BHATI	Chemistry	2019PHCH0241	Guide	SOCIO-ECONOMIC IMPACT AND ENVIRONMENTAL QUALITY PARAMETERS OF MINING AREA, BHILWARA, RAJASTHAN	Awarded
3	SAMEEKSH A BANSAL	Chemistry	2020PHCH002	Guide	COMPARATIVE STUDY OF SYNTHESIS CHARACTERIZATION AND THERMAL PROPERTIES OF SUBSTITUTED N-ARYLMALEIMIDES	Under Process
4	BHUMIKA BORIWAL	Chemistry	2021PHCH001	Guide	COMPARATIVE STUDY OF SYNTHESIS & CHARACTERIZATION OF HOMO & CO-POLYMER OF SOME SUBSTITUTED N-	Under Process

					PHENYLMALEIMIDES	
5	PRASANNA DAVE	Chemistry	2021PHCH002	Guide	STUDY OF OXIDATIVE TRANSFORMATIONS OF SOME AMINO ACID'S AND THEIR ESTERS BY CERIU (IV) IN PARTIAL AQUEOUS MEDIUM EFFECT OF MICELLES AND METAL ION	Under Process
6	JITENDRA KUMAR	Chemistry	2021PHCH003	Guide	ANALYTICAL METHOD DEVELOPMENT OF A STABILITY - INDICATING UPLC METHOD FOR DETERMINING ANTILIPEMIC DRUGS IN PHARMACEUTICAL DOSAGE FORMS	Under Process
7	MINAKSHI BHATI	Chemistry	2022PHCH1105	Guide	EFFECT OF PESTICIDES ON SOIL OF KOTA REGION THROUGH SOIL QUALITY INDEX	Under Process
8	ABHILASH A BHATT	Chemistry	2022PHCH1099	Guide	A STUDY ON GREEN SYNTHESIS OF METAL OXIDE NANOPARTICLES USING AEGLE MARMELOS EXTRACT FOR PHOTOCATALYTIC TREATMENT OF TEXTILE EFFLUENT	Under Process
9	SARAF BHAIRAVI VIJAYANA ND		(2023PHCHO02	Guide	Under Process of Synopsis Preparation	Synopsis Preparation

MOOC Course:

12 Weeks Physicochemical Process for waste water treatment, Secure 78%, Elite Silver Certificate

Book Publication

1. "Industrial Chemicals and Environment: A Hand Book", ISBN:978-81-970242-1-4 , 2025

2. **“Basic Analytical Chemistry”** ISBN: 978-81-970242-4-5, SU Publication, May 2024
3. **“Recent Trends & Innovations in Applied Sciences”,** ISBN: 978-81-970242-3-8, SU Publication, May 2024
4. **E-Book Drinking Water Chemistry- A practical guide** Published on 19 Jan 2022, US ISBN – 978-1- 957302-18-8, Walnutpublication.com
5. **Analytical Techniques to Measure Soil and Water Quality**, Authors- Prof. Dr. Preeti Mehta, Dr. Nirma Dhaker, Publisher- Mewar Shree Publication, Chittorgarh (Raj.) & Dwarka, New Delhi, Publishing Year- 2023, ISBN- 978-81-957739-3-0
6. **“Coping Change Through Innovation And Value Addition For Society”** ISBN: 978-93-86724-32-8, Excel India Publication, New Delhi,
7. **Chief Editor:** SU Prospectus: AVALOKAN 2024
8. **Chief Editor:** SU Newsletter: PRATIBIMB
 - a . Pratibimb, Ed. I [Sept. 2022]
 - b . Pratibimb, Ed. II [March 2023]
 - c . Pratibimb, Ed. III [July 2023]
 - d . Pratibimb, Ed. IV [March 2024]
 - e . Pratibimb Ed. V [March 2025]
9. **Proceeding:** NAAC Sponsored Workshop on “Challenges before Higher Education Institutions in Remote Areas for Achieving Quality improvement through Assessment and Accreditation Process ” 2022
10. **Abstract Book/ Sovenir :** SERB-DST, Govt. of India, New Delhi, Sponsored International Conference on “Recent Trends & Innovations in applied Sciences for sustainable development of environment” on 22-24 January 2024.

Organize National & International Conferences, Seminars, FDP

- Convenor of Micro Credential Short Term Certificate course Module II on Practical Applications of Bioinformatics: Genomic analysis, March 17- May 04, 2025

- Convenor of DST Rajasthan supported Two days National Symposium: Intellectual Property Rights (IPR) Patents and Design Filing, March 28-29, 2025
- Convener of SERB-DST, Govt. of India, New Delhi, Sponsored **International Conference** on “Recent Trends & Innovations in applied Sciences for sustainable development of environment” on 22-24 January 2024.
- Program Chairperson of Academia- Industry oriented Program on Analytical Tools and Technologies in Basic & Applied Sciences &, Its Applications, in collaboration with DNA Labs Dehradun, India, June, 21-23, 2023
- Organize Zonal Center Program on Recombinant DNA Technology & Genetic Engineering by Zonal Championship & E-Cell IIR Kharagpur, 10-12 Oct. 2022, at Sangam University.
- Organized Webinar on “Positive mindset in times of uncertainty” 19th May 2021 for SU Staff & Faculty Members as IQAC Coordinator
- Convener of Two Days National Webinar 27-28 May 2021 on “Chemical Modeling, Design & Developments for Sustainable life”, Department of Chemistry, School of Basic & Applied Sciences, Sangam University
- Conducted Webinar on Corona Virus: COVID-19: Past, Present and Future 13th May 2020, School of Basic & Applied Sciences, Sangam University
- Convener of National Seminar Recent Advances and Trends in Applied Sciences “, on National Science Day 28th Feb-1st March 2020.
- Co Convener of International Conference on Environmental & Climatic Consequences: Challenges & Mitigation Strategies ICECC 21-22 December 2019
- Convener of National Conference NCRIAS 18 organized by School of Basic & Applied Sciences Feb 2018
- Co Convener of **Annual International Conference:** Coping Change through innovation and value creation for society, 22-23 December 2017, Sangam University, Bhilwara

As Dean School of Basic & Applied Sciences implemented/ organized

1. Implemented NEP 2020 in course curriculum of B.Sc. & M.Sc. Programs and revised Schemes and syllabi accordingly
2. Introduce B.Sc. Honors and B.Sc. Research Programs
3. Summer internships in B.Sc. Programs
4. Indian Knowledge System (IKS) as compulsory credit course in B.Sc.
5. Yoga and Meditation as compulsory credit course in B.Sc.
6. MOOCs as value addition credit transfer course
7. Introduce Micro credential course: Bioinformatics module I & II
8. 1st SERB supported International conference on Recent Trends and Innovations in Applied Sciences, 22 -24 Jan 2024
9. Expert session series including National and International speakers of different streams of Applied Sciences

As IQAC Coordinator, organized

1. One Week Training program for Non Teaching Staff on Skill development, 21-27th June 2021, IQAC Cell & Training and Placement Cell Sangam University
2. One week FDP and Faculty induction program on ICT teaching learning tools, 26th July-2nd August 2021
3. Industry Academia Meet with T& P Cell: 16 April 2021
4. Online NIRF Sensitization Workshop 16th November 2021
5. One Week Faculty Development Program 20th -24th December 2021
6. Round table discussion on NIRF, AQAR Data Submission: Prof. Harsh Purohit [Basnasthali] & Prof. Deepak Jaroliya [PIMR Indore]: 18 Jan 2022
7. Staff Development Program for Non Teaching Staff, 22 March 2022, “Team Sangam We Are #1”
8. FDP: Outcome -Based Education & Its Implementations
 - a. 12th & 13th April 2022, Prof. Raguveer Singh, [Vice Chancellor, Teerthanker Mahaveer University]

9. Session on How to Implement NEP2020 in BOS, Prof. Karunesh Saxena, Vice- Chancellor, Sanfam University, 19 April 2022
10. IIRF Ranking data Submission: 13 March 2022, Ranking Released on 5th May 2022, achieve overall 6th Rank in Rajasthan, North Zone: 24, All India: 45
11. NIRF Data Submission: 15 Feb 2022
12. AISHE Data Submission: 28 Jan 2022
13. Two Days Faculty Development Workshop on “Benchmarking Quality Enhancement Initiatives through Innovation Practices”. **July 12-13, 2022 -**
14. Internal Academic Audit of all Schools, **August 23-26, 2022 -**
15. NIRF Session for IQAC NIRF Committee by Dr. Nishant Joshi., **August 31, 2022**
16. Release of SU Newsletter (Magazine) PRATIBIMB I Edition. **October 06, 2022**
17. Joint Workshop by IQAC & Research Directorate on “How to develop project proposal”. **October 20-21, 2022**
18. One day Workshop on “How to Develop MOOCs & How students can get benefitted by MOOCs” for Students and Faculties both. **November 11, 2022**
19. Two-Day NAAC Sponsored National Workshop on “Challenges before Higher Education Institutions in Remote Areas for Achieving Quality improvement through Assessment and Accreditation Process ” **November 24-25, 2022**
20. One Day Workshop on Intellectual Property Rights, Jointly organized by IQAC & School of Legal Studies, Sangam University Bhilwara. **November 30, 2022 -**
21. General Meeting with all Teaching & Non-Teaching Staff of Sangam University. Theme - Mere Sapno ka Sangam Vishwavidyalaya. . **January 02, 2023**
22. NIRF Sensitization Workshop:Resource Person: Dr Harsh Purohit Banasthali Jaipur. **January 11, 2023**
23. Framework for Academic Performance Indicator API and Career Advancement Scheme for Teaching & Non-Teaching Staff. **January 16, 2023**
24. IQAC initiated a program for Tejaswini Cell on Health, hygiene and Sanitation for girls. Expert : Dr. Sangeeta Kabra. **January 18, 2023**

25. Student Development Program on Skill Enhancement Technique from waste to best & Expert guidance and Recommendations by Prof. Dr. Amritesh Shukla, Lucknow University on Project Funding and Proposals. **January 30-31, 2022**
26. One day workshop on E-Resources: Navigation & Awareness, **24 Feb 2023**.
27. Release of Sangam Newsletter: Pratibimb II Edition as Chief Editor, **04 March 2023**
28. Organized International Womens' Day Celebration Program for Female staff members and Students, **08 March 2023**
29. Participated and Coordinated IAE Workshop on Curriculum Framework, **17-18 March 2023**
30. Organized National Commission for Women financially supported one day "Capacity Building & Personality Development Programme" for UG & PG Girl Students
31. As director IQAC conducted ISO 21001: 2018 & ISO 14001: 2015 audits and Sanagm University received these certification October 2023.

As Director: AIU-SU-AADC (Academic Administrative Development Center)

1. Faculty Development Program on **Outcome Based Education: Paradigms Shift in Higher Education**, October 14-18, 2024.
2. Faculty Development Program on **Integrating Indian Knowledge Systems in Modern Education: An NEP-2020 Perspective**, Dates: 16-20, December 2024
3. Faculty Development Program on **"Empowering Research: Tools and Techniques for Effective Research Development,"** scheduled from February 10-15, 2025
4. Administrative Development program on **Effective Governance in Higher Education System**, 28 April - 2 May 2025

Research Publications

1. Synthesis and Characterization of Homopolymerization and Copolymerization of 2,4- [Dinitro (phenyl amino)] Maleimide with Methyl Methacrylate, Bhumika Boriwal1 , Preeti Mehta2 , Deepika Jain3 , Pankaj Sen4* Chemistry Research Journal, 2025, 10(2):47-54, ISSN: 2455-8990 CODEN(USA): CRJHA5

2. A REVIEW PAPER ON ECO-FRIENDLY PRODUCTION AND USE OF ZINC OXIDE NANOPARTICLES Pankaj Rasaniya, *Dr. Rajeev Mehta, Dr. Pankaj Sen and Dr. Preeti Mehta International Journal of Science Academic Research Vol. 06, Issue 05, pp.9907-9912, May, 2025, ISSN: 2582-6425
3. Assessment of the Water Quality of Industrial Area of Bhilwara using Water Quality Index Nirma Dhaker, Preeti Mehta, Pankaj Sen, International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.53, Volume 13 Issue V May 2025- Available at www.ijraset.com
4. Synthesis and Characterization of Ether-Dimer Impurity of Drug - Ranolazine Using 2, 2'-(oxybis (methylene)) Bis (Oxirane), Nand Lal Mali , Rajeev Mehta , Preeti Mehta , Pankaj Sen* American Journal of Applied Scientific Research 2025, Vol. 11, No. 2, pp. 120-126 <https://doi.org/10.11648/j.ajasr.20251102.12>
5. Stability-Indicating UPLC Method for the Estimation of Fenofibrate (Micronized) Capsules Jain Jitendra Kumar^{1,2*}, Mehta Preeti¹ and Dadheech Pankaj², International Journal of Zoological Investigations Vol. 11, No. 1, 378-385 (2025), <https://doi.org/10.33745/ijzi.2025.v11i01.040>, ISSN: 2454-3055
6. Impact of Textile Dyeing Effluent on Soil Quality Parameters Nirma Dhaker , Preeti Mehta , Pankaj Sen* , Rajeev Mehta , Abhilasha Bhatt, Industrial Engineering 2025, Vol. 9, No. 1, pp. 1-8 <https://doi.org/10.11648/j.ie.20250901.11>
7. The Analysis of Water Quality Index with Study of the Effect of Textile Effluents on the Groundwater of Bhilwara City, Modern Chemistry 2025, Vol. 13, No. 1, pp.1-8 <https://doi.org/10.11648/j.mc.20251301.11>
8. Impact of Textile Dyeing Effluent on Soil Quality Parameters, Industrial Engineering 2025, Vol. 9, No. 1, pp. 1-8 <https://doi.org/10.11648/j.ie.20250901.11>
9. Analysis of Groundwater Quality in Semi-arid Region of Eastern - South Rajasthan on the Basis of Water Quality Index (WQI), Journal of Geomatics, Vol. 18 No. 2 (2024): DOI:

<https://doi.org/10.58825/jog.2024.18.2.112> (Pankaj Sen*, Abhishek Saxena, Rajeev Mehta, Preeti Mehta), 2024-10-30

10. **Synthesis and Application of Heterogeneous Zinc Catalysts for Decarboxylative Coupling**, Proc. Natl. Acad. Sci., India, Sect. A Phys. Sci., Springer Nature Publication, <https://doi.org/10.1007/s40010-024-00886-8>, August 2024.
11. Water quality assessment of Banas River, eastern-south region of Rajasthan, using water quality index, **Proceedings of the Indian National Science Academy (2023)** 89:134–142, Springer Nature Publication. <https://doi.org/10.1007/s43538-022-00145-7>,
12. **Impact of Mining on Socio-Economic Status of Local People of Pur, District Bhilwara, Rajasthan**, Bulletin of Environment, Pharmacology and Life Sciences Bull. Env. Pharmacol. Life Sci., Vol 11 [9] August 2022 : 104-108, Online ISSN 2277-1808 [Preeti Mehta, Anita Bhati]
13. To investigate the Effects of a Covid -19 lockdown on soil Quality measure in Bhilwaras Industrial Region, Rajasthan, **Journal of Positive School Psychology** 2022, Vol. 6, No. 7, 2388-2392 ISSN Number 23882392
14. Changes in Ground Water Quality of Textile City Bhilwara After COVID-19 Lockdown, **Journal of Applied GeoChemistry**, Vol. 23, No. 3 (2021), pp. 214-218
15. Ground water pollution and Treatment with reference of removal of mineral ions, EPRA **Int. Journal of Agriculture and Rural economic research**, Peer reviewed , Vol.9, issue 7, July 2021 Journal DOI: 10.36713/epra0813| Impact Factor SJIF (2021) : 7.604| ISSN: 2321 – 7847
16. SPECIFICATION OF WATER TREATMENT TECHNIQUES WITH REFERENCE TO GROUNDWATER, **International Journal of Environmental Economics, Commerce and Educational Management Journal** DOI: 10.36713/epra0414 |ISI I.F Value: 0.815|SJIF Impact Factor (2021): 7.743 ISSN: 2348 – 814X Volume: 8 | Issue: 7 | July 2021
17. Hydro Chemical Status of Groundwater in Ajmer District, IJISSET - **International Journal of Innovative Science, Engineering & Technology**, Vol. 8 Issue 7, July 2021 ISSN (Online) 2348 – 7968 | Impact Factor (2020) – 6.72
18. Impact Of Industries' Effluent On Groundwater And Soil Quality In The Vicinity Of Industrial Area Of Bhilwara(Raj.), **Wesleyan Journal of Research**, Vol 13 No 81 (March 2021)
Research article: (Chemistry) Approved UGC Care

19. Overview of Impact of Mining Activities on Environmental Components, *Wesleyan Journal of Research*, Vol 13 No 68 (March 2021) Research article: (Chemistry), Approved UGC Care
20. FLUORIDE CONTENT IN GROUNDWATER QUALITY OF SOME VILLAGES IN RAJASTHAN, INDIA EPRA **International Journal of Research and Development (IJRD)** Vol.6, Issue: 6 (June 2021) Peer Reviewed Journal, SJIF Impact Factor 2021: 8.013| ISI I.F.Value:1.241| Journal DOI: 10.36713/epra2016 ISSN: 2455-7838(Online)
21. Impact of Dyeing Industrial Effluent on Physicochemical Parameters of Ground Water Quality of Industrial Area of Bhilwara, Rajasthan, **Jornal Studies in Indian Place Names**, ISSN: 2394-3114, Vol-40-Issue-68-March-2020
22. Impact of Dye Industrial effluent on Soil Quality Parameters at Rico Industrial Area, Bhilwara, Rajasthan, **Bioscience Biotechnology Research Communication, Special Issue Vol 13 No 10 (2020) Pp-293-296**
23. IMPACT OF COVID-19 LOCKDOWN ON PHYSICOCHEMICAL WATER QUALITY PARAMETERS: TEXTILE CITY BHILWARA, **Int. bilingual peer reviewed research journal, Shodh Sanchar Bulletin**, Vol.10, Issue 40, Dec.2020, ISSN- 2229-3620, Approved UGC Care
24. “Heterogeneous photocatalytic treatment of textile dye effluent containing Azo Dye: Direct Crysophenine G” **Der Chemica Sinica**, Vol. 2, issue 5, 2011, pp37-46.
25. “Study of Influence of operational parameters on degradation of commercial textile azo dye Acid Blue 113 (Cyanine 5R) by Advanced Oxidation Technology” **Journal of Current Chemical and Pharmaceutical Sciences: Vol.1, issue 1, 2011, pp. 28-36**
26. “Treatment of water contaminated by Reactive Red 198 by Photo-Fenton reagent” **Der Chemica Sinica**, 2(2), 177-186, 2011.
27. The decolorization and mineralization of azo dye Reactive Yellow 86 in Aqueous solution by Photo-Fenton reagent. **Der Pharma Chemica**, 3(2), 39-47, 2011.

28. "Effect of Transition metal ion on photoassisted bleaching of Reactive Yellow 86 by TiO_2 "
Journal of chemical and Pharmaceutical Research, Vol. 2, issue 4, 2010, pp. 546-557.
29. "Photocatalytic degradation of diazinic ring containing Azo dye (Direct yellow12) by photo-Fenton Reagent" **Journal of chemical and Pharmaceutical Research, Vol. 2, issue 4, 2010, pp. 655-662**
30. "Photodegradation of commercial textile dye Acid Orange 8 by photo- phenton reagent in aqueous medium" **International Journal of Chemical Science. 8(4), 2010, pp. 2418-2426.**
31. "Photocatalytic degradation of commercial Textile dye Acid Blue 113 by photo-Fenton Reagent" **Journal of Indian Council of Chemists Vol. 27, 2010, pp. 116-121.**
32. "Photocatalytic degradation of Acid Orange 8 by Titanium Dioxide" **Journal of Indian Council of Chemists Vol. 26, 2009, pp. 158-161.**

Research Papers in Book & Proceeding

1. "Application of Nano particles as an Emulsion in Insect Management: **"Insect Science and Experiment"** ISBN: 978-93-90420--73-5, 2019-20, Akinik Publication, Delhi
2. Photocatalytic Oxidation of Antranilic Acid Using Zinc Oxide: An Advanced Oxidation Process Coping Change through innovation and value creation for society: ISBN Book: 978-93-86724-32-8, **December 2017**
3. Research Paper in proceeding of National conference on ACEBS-2016 Advances in Chemical Environmental and Biological Sciences, Challenges in 21st Century, **2016.**
4. Paper published in international book as chapter **"Recent Trends in Chemical Sciences"** published by **Apple Academics Press** [Taylor & Francis group] ISBN-13: 978-1-77188-127-2 (Hard Cover)**2015**
Title: Study of influence of operational parameters on eliminating Azo dyes from Textile effluent by Advanced Oxidation Technology. ISBN-13: 978-1-77188-127-2 (Hard Cover)**2015**
5. Research Paper in proceeding of National Seminar on Environmental Challenges, Chemistry Alumini, M.L.V. Govt. College, Bhilwara (Raj.), **2nd April, 2010.**

Chapters/General articles

6. Article; The New Input-Output Model: An Innovative Way to Transform Indian Higher Education System, Coping Change through innovation and value creation for society: ISBN Book: 978-93-86724-32-8, **December 2017**
7. Article “Advanced oxidation Process for textile Effluent Treatment: An Ecofriendly Approach” is published in **EQ:2014-15** of Sangam University.

Invited Speaker/ Panel Advisor:

1. Plenary Speaker in International conference “Recent innovations in Biological, Chemical and Clinical Sciences” 6-7 May 2025 at Malacca Malaysia organized by Manipal University College, Malaysia.
Title: “*Synergizing Green Chemistry and Advanced Oxidation Processes: A Pathway to Achieve Sustainable Development Goals*”
2. Session chair in International conference “Recent innovations in Biological, Chemical and Clinical Sciences” 6-7 May 2025 at Malacca Malaysia organized by Manipal University College, Malaysia.
3. Resource Person in One Week FDP on "Empowering Research: Tools and Techniques for Effective Research Development," scheduled from February 10-15, 2025, Sangam University.
4. External Examiner of Ph.D. Thesis evaluation “Title of the Thesis: One Pot Syntheses and Prospective Biological Activity of Bicyclic heterocycles: Benzothiazepines: GD Goenka University, Gurugram
5. Review Research Paper “ (Hydrogeochemical Characteristics of Groundwater in the Prefecture of Bassar, Togo) made for International Journal of Environmental Chemistry (IJE) ISSN Online: 2640-1460; ISSN Print: 2640-1452, February 7, 2025
6. Session Chairperson in International Conference on Newer Horizon of Chemical Sciences in 21st Century , Department of PG Studies, Dept. of Chemistry, Pacific Academy of Higher Education and Research University, Udaipur, September 27-28, 2024.
7. Session Chair in International Conference on Transforming lives through adoption of SDGS: Role of HEIs organized by GD Goenka University, Gurugram,

Session Chair: Track 2: Engineering a Sustainable Future, May 30-31, 2024

8. Keynote Speaker: FDP on NAAC Assessment & Accreditation Framework, organized by SDM PG Girl's College, Bhilwara, 4-8 July 2024,
9. Keynote Speaker in Staff Development Program, "Team Sangam We Are #1" 22 March 2022 ,**Topic: "Gender Sensitization; Workplace Etiquette and Mutual Respect"** Sangam University, Bhilwara
10. Session Chaird in National Seminar on "Impacts of Pandemics on Society: Problems and Innovations" 24-25 Feb 2022, Sangam University, Bhilwara
11. Invited Speaker for Two days online event, '**International Symposium on Energy Conservation & Solar Energy**' (ISECSE 2020) on 15-16 October 2020, organized by **School of Basic & Applied Sciences, G D Goenka University, Gurugram** in association with BEE, Ministry of Power, Govt of India, HAREDA Govt of Haryana, NISE- MNRE, Govt of India and Indo-German Energy Forum New Delhi.
12. Panel Advisor in **International Conference on Analytical and Interdisciplinary Research [ICAIR 2021]**, 5-6 Feb 2021.
13. **Presented talk** on Green Chemical Technology: AOP: Advance Oxidation Processes, An Eco-friendly Approach for Effluent Treatment in Two Days National Webinar 27-28 May2021 "Chemical Modeling, Design & Developments for Sustainable life"
14. Presented invited talk on Advanced Oxidation Processes for waste water treatment: Emerging green chemical technology, in **National Webinar series** on "Chemistry for Society, Environment & Betterment" 19-23 July 2021, Department of Basic & Applied Sciences, GD Goenka University, Gurgao.
15. Presented talk on "Gender Sensitization; Workplace Etiquette and Mutual Respect" in Staff Development Program for Non Teaching Staff, 22 March 2022, "Team Sangam We Are #1"
16. Presented talk on **21st Century Skill : The NEP 2020 Perspective**, in "Capacity Building & Personality Development Programme" supponsored by NCW, New Delhi, organized by Sangam University, for UG & PG Girl Students, 25 April 2023.

17. Session for Ph.D. Scholars on, Citation & Referencing Style, Sangam University.

National Seminars/ Conferences/ Training

Attended and Presented research papers

1. International Conference: Transforming Lives through Adoption of SDGs: Role of Higher Education Institutions (TLASH 2024), May 30-31, 2024, GD Goenka University Sohna Road, Gurugram 122103, Haryana, India
2. National Seminar Jointly organized by SU and MLSU, Common Sense and Its Applications, 5-6 Jan 2024.
3. International Conference: Recent trends and Innovations in Applied Sciences, 22-24 Jan 2024, Sangam University, Bhilwara.
4. National Seminar: NEP 2020 Implementation in HEIS, 11 May 2024, Sangam University
5. Seminar on Silver linings in Golden Years: Regional Seminar on Elderly Issues, Funded by NISD, Govt. Of India, 20-21 March 2024, CESD Cell, Sangam University
6. National Seminar: Use of Hindi terminology in Chemistry and Related Subjects, 15-16 Sept. 2023, Pacific University, Udaipur
7. Attended National Seminar on Atmanirbhar Bharat: The Challenges Posed by the Economy of China 3-4 May 2023. Sponsored by ICSSR, Organized by SOLS, Sangam University.
8. Attended and presented paper in International Conference on Recent Innovations in Biotechnological, Chemical & Environmental Science, 15-16 March 2023.
9. Attended and presented paper in International Conference ICAIR : Analytical & Interdisciplinary Research, "Synthesis and Application of Heterogeneous Zinc Catalyst for Decarboxylation Coupling"
10. Attended **National Seminar on Possibilities of Multidisciplinary Research in Linguistic Literature**, 25-27th April 2022, Sangam University, Bhilwara

11. Attended International virtual conference on **International Conference on Modern Approaches in Sciences & Technology**, 02/ 04/ 2022, School of Engineering & Sciences, GD Goenka University, Gurugram Sohna Road, Gurugram, Haryana, India
12. Attended International virtual conference on **Frontriers in Chemical Sciences (IVCFCS 2021)** organized by Dept. of Chemistry, MLSU Udaipur, 25th June 2021.
13. Attended and presented paper in International conference on **Analytical and Interdisciplinary Research [ICAIR 2021]**, 5-6 Feb 2021. Sangam University, Bhilwara
14. Attended and Presented Research paper in **International Conference on Environmental & Climatic Consequences: Challenges & Mitigation Strategies ICECC** 21-22 December 2019
15. Attended National Seminar on **Recent Multidisciplinary Trends in Chemical Sciences**, Mewar University. 24 August 2018
16. Presented paper in National Conference on **Research & Innovative Trends in Applied Sciences [NCRIAS]** 22-23 December 2018 organized by School of Basic & Applied Sciences
17. **Presented paper in Annual International Conference: Coping Change through innovation and value creation for society**, 22-23 December 2017, Sangam University, Bhilwara
18. Attended **International Conference on Frontiers at the Chemistry: Allied Sciences Interface [FCASI-2017]** Organised by Center of Advanced Study, Dept of Chemistry, University of Rajasthan, Jaipur
19. Attended National conference on **ACEBS-2016** Advances in Chemical Environmental and Biological Sciences, Challenges in 21st Century, **2016**. Department of Chemistry, Meera Girls Govt. College, Udaipur.
20. UGC sponsored National conference on **Modern Trends in Chemical Sciences** at MLS University Udaipur, 30- 31 January 2016.
21. Attended 5 days training program on **"Water Quality Monitoring and Assessment "** at **Central Water Commission** , New Delhi from 23-27 March 2015.

22. **National Conference on ‘Recent Trends in Research in Chemical Sciences 2014’** Deptt. Of Chemistry, Manipal University, Jaipur [Raj.]
23. **National Conference on chemical sciences in New Millennium 2012**, Department of chemistry, Pacific University, Udaipur (Raj), 8 Jan. 2012.
24. **1st conference on Novel Developments on Medicinal Chemistry**, Department of chemistry, Mewar University, Chittorgarh (Raj.), 19 april, **2011**.
25. **One day Annual research seminar under model college scheme (UGC0)**, Chemistry Alumini, MLV.Govt. College, Bhilwara (Raj.), 13 March, **2011**.
26. **National conference on Emerging Views in Advanced Chemistry**, Department of Chemistry, M.L.V. Govt. College, Bhilwara (Raj.), 17-19th December, **2010**.
27. **National Seminar on Environmental Challenges**, Chemistry Alumini, M.L.V. Govt. College, Bhilwara (Raj.), 2nd April, **2010**.
28. **28th Annual conference of Indian Council of Chemists**, Department of Chemistry, Hemchandracharya North Gujrat University, Patan (Guj.), 07-10th November, 2009.
29. **Attended National Workshop on Promoting Excellence in Research”** M.D.S. University, Ajmer, 5-7th November, **2008**.
30. **44th Annual Convention of Chemists 2007** , Indian Chemical Society, Kolkata, at Mahatma Gandhi Institute of Applied Seiences, Jaipur (Raj.), Dec 23-27, **2007**.
31. **Attended National Symposium on Recent Trends in Chemistry (NSRTC-2007)**, Department of Chemistry, M.P.P.G. College, Chittoregarh (Raj.) 10th jan, **2007**.

Other Workshops and FDP

1. Administrative Development program on **Effective Governance in Higher Education System**, 28April - 2May 2025

2. NEP 2020 Orientation & Sensitization Programme under Malaviya, Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC), Organized by Malaviya Mission Teacher Training Centre, Devi Ahilya Vishwavidyalaya, Indore (M.P) from 20-02-2025 to 28-02-2025.
3. Faculty Development Program on **"Empowering Research: Tools and Techniques for Effective Research Development,"** scheduled from February 10-15, 2025
- 4.
5. FDP on Innovative Teaching and Learning Pedagogy, 17-22 Feb 2025, organized by National Research Foundation of India.
6. Faculty Development Program on **Integrating Indian Knowledge Systems in Modern Education: An NEP-2020 Perspective,** Dates: 16-20, December 2024
7. One week FDP on "Curriculum Development in the Light of NEP-2020, 02-06, September, 2024, organized by AIU-SVVV-AADC, Shri Vaishnav Vidhyapeeth Vishwavidhyalaya, Indore & AIU.
8. Faculty Development Program on **Outcome Based Education: Paradigms Shift in Higher Education,** October 14-18, 2024.
9. Mega Skill Entrepreneurship development Program, "Invest in Women and Accelerate Progress" MLSU, Udaipur, 13-15 March 2024
10. Two Days Workshop on "Essentials of Research Writing and Using Mendeley Reference Manager" Scrollwel, October 09 - 10, 2023
11. Disaster Management Plan & Life Skill Training NIDM and Sangam University IQAC & Fire & Safety Department, September 18, 2023.
12. One Day workshop on "Research Ethics, Tools & Altmetrics, SUIQAC & Research Cell, July 27, 2023
13. One day Workshop on on Design & Development of Research Based Projects, December 13, 2023.
14. Participated as Director IQAC : Capacity Development Program for Vice-Chancellors, An Interactive Dialogue on Governance Leadership & management, 15-17 May 2023, through Offline, conducted by Institute for Academic Excellence (IAE), Hyderabad in collaboration with Collegiate Education & Technical Education Department, JNTU, Govt. of Telangana

15. Participated as Director IQAC in the two day ““2nd National Level Workshop on CURRICULUM FRAMEWORK 2023” held on 17th & 18th March, 2023 through Online, conducted by Institute for Academic Excellence (IAE), Hyderabad in collaboration with Collegiate Education & Technical Education Department, Govt. of Telangana
16. Participated in STTAR FUTURE LEARNING SYSTEMS, a virtual professional development programme conducted by Saamarthya Teachers Training Academy of Research(STTAR) from May 23 to May 27, 2022.
17. Participated as Director IQAC in the two day “National Level Workshop on NIRF INDIA, RANKINGS - 2022 For Higher Educational Institutions” held on 5th & 6th January, 2022, through Online, conducted by Institute for Academic Excellence in collaboration with Collegiate Education & Technical Education Department, Govt. of Telangana.
18. 21 Days Faculty Development Programme on Online Teaching Platforms and Tools : 1-21 June 2021 Organized by Scrollwell EduTech LLP.
19. Organized & Attended One week FDP and Faculty induction program on ICT teaching learning tools, 26th July-2nd August 2021, Sangam University, Bhilwara
20. Organized & Attended One Week Faculty Development Program 20th -24th December 2021, Sangam University, Bhilwara
21. Organized & Attended FDP: Outcome -Based Education & Its Implementations, 12th & 13th April 2022, Sangam University, Bhilwara
22. FDP on Ón-line Teaching Pedagogy in Higher Education, 11-14 June2020, Organized by Department of Agriculture and Environmental Science, NIFTEM. Sonipat Haryana
23. National virtual FDP on Recent Trends in Advanced Chemistry, 8-13th June 2020, organized by University of Petroleum and Energy Studied, Dehradun.
24. One Day Awareness Workshop on Intellectual Property Rights (IPR) : Patents and Copyrights : 5-03-19
25. Two weeks FDP: Workshop of NITTTR Kolkota on Problem Based Learning : 20 May-31 May 2019
26. IET Author's Workshop, Sangam University: 14Nov 2018

27. Two Days National Conference on Research and Innovative Trends in Applied Sciences [NCRIAS 18], Sangam University: 22-23 December 2018
28. NAAC Awareness Seminar: By. Prof. Shyam Singh Inda: 26-27 Nov. 2018
29. Attended FDP session on “Teaching Skills and Research Methodology”, 5-7 January 2017 Sangam University
30. Industry Interface: Running and Monitoring of Textile Effluent Plant, Sangam Spinners, 2014
31. Participated in Two week ISTE workshop on Engineering Thermodynamics conducted by IIT Bombay 11-21 Dec.2012
32. Participated in Two days ISTE workshop on Akash Education conducted by IIT Bombay 10-11 Nov. 2012
33. Attended Lecture demonstration session organized by Automation lab, Chemical Engineering department, IIT Bombay on 8-9 may 2012

Attended virtual seminars during COVID 19 Lockdown

1. Attended the Scientific Update virtual course on The Magic Methyl in Medicinal Chemistry, 29th April 2020.
2. Webinar: Identifying weaker students and Remedial Action, 04-05-2020
3. National Webinar on Nutrition and Immunity-Simplified and Applied organized by the Department of Food Technology, Bhaskaracharya College of Applied sciences, Delhi, 19 May 2020.
4. Webinar Series: Beyond the Boundaries: Reinventing Horizons”, Organized by SKIT, Jaipur, 16-20 May 2020
5. E-Quiz series on COVID-19 for Spreading Awareness: Level One (Basics), Department of Biotechnology & Microbiology, University College of Science (UCoS), Mohanlal Sukhadia University, Udaipur, Rajasthan-313001, 25 may 2020.
6. "NAAC Accreditation Management System demo: Wed, May 27, 2020 2:00 PM - 3:30 PM IST, webinar@inpods.com

Achievements/ Awards/ Recognitions:

1. Maharana Fateh Singh Award from Maharana Mewar Foundation, Year 1995

2. 1st Position in B.Sc. in B.N.P.G. Girls College, Udaipur, Year 2000
3. Vice President of B.N.P.G. Girls College, Udaipur, Year 2000.
4. Awarded by Lions Club Bhilwara for creating awareness for Social responsibility toward Environment and social issues among students , Women's Day 8th March 2016.
5. Awarded by Dr. S.K. Banerji Memorial Award for Best paper presentation in National conference on Modern Trends in Chemical Sciences at MLSUniversityUdaipur,30-31January2016.
6. On behalf of Sangam University Bhilwara felicitated by Directorate Women and Child development, Bhilwara under Government of Rajasthan for adoption and development activity of Anganwadi Kendra Village Gathilakhera on the occasion of International Women's Day in at Rajiv Gandhi Auditorium Bhilwara, 8 March 2017.
7. Awarded by Best Teacher Award 2017-18 for Academic Excellence, Sangam university.
8. Co Convener of Annual International Conference: Coping Change through innovation and value creation for society,22-23 December 2017, Sangam University, Bhilwara
9. Certificate of Appreciation for Best Result 2017-18.
10. Certificate of appreciation of Best performance as Dy. Dean, School of Basic & Applied Sciences 2018-19.
11. Best paper Presentation International Conference ICAIR : Analytical & Interdisciplinary Research, "Synthesis and Application of Heterogenous Zinc Catalyst for Decarboxylation Coupling" 6-8 Oct. 2022
12. Appreciated by E-Cell IIT Kharagpur for outstanding contribution in cordinating the Zonal Center Program on Recombinant DNA Technology & Genetic Engineering by Zonal Championship & E-Cell IIT Kharagpur.10-12 October 2022
13. Women In Science, Award, International Conference Recent Trends in Biotechnological, Chemical and Environmental Science, MLSU, Udaipur, 15-16 March 2023.
14. Award: Mahila Shkati Samman by Jila UNESCO Association & Jawahar Foundation , Jindal Ltd. On International Women's Day: 10 March 2024

15.Honored by : **“Women Innovator Award”** in 2nd International conference
“Recent innovations in Biological, Chemical and Clinical Sciences” 6-7 May
2025 at Malacca Malaysia organized by Manipal University College, Malaysia.

Personal Profile

- Marital Status :: Married
- Husband’s Name : Dr. Rajeev Mehta
- Nationality : Indian.
- Linguistic proficiency : English, Hindi
- Date of Birth : 01/05/1979

