




DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

Title	Dr.	First Name	Mahesh	Last Name	Chandra	Photograph
Designation		ASSISTANT PROFESSOR				
Address		Department of Chemistry, Deshbandhu College, University of Delhi Kalkaji, New Delhi - 110019				
Phone No. Office						
Residence Mobile		9871635918				
Email Web-Page		mchandra@db.du.ac.in				
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		JNV University, Jodhpur			2006	
PG		JNV University, Jodhpur			2003	
UG		University of Rajasthan ,Jaipur			2001	
Any other qualification						
Career Profile						
Presently working as an Assistant Professor (Permanent) from 4th April 2007 in Deshbandhu College, University of Delhi.						
Administrative Assignments						
<ul style="list-style-type: none"> • Research Guidance : one student Guided for M.phil. and Two students working for Ph.D • Actively involved in the organization of Deshbandhu college's cultural festival, "Sabrang" (2007-2020). • Participated as co-convenor and organizing member in the annual Chemical Society festival "Resonance" at Deshbandhu College, University of Delhi. (2007 - 2020). • Worked as convenor library committee for academic year 2018-2020 Deshbandhu College. 						
Areas of Interest/Specialization						
<ul style="list-style-type: none"> • Solar Energy Nanotechnology • Quality control of water • Development of the new route for decomposed of industrial waste and optimization of the utility of water and chemicals. 						

- **Photochemistry, Surface Chemistry Polymer Chemistry, Thermodynamics Chemical Kinetics**

Subjects Taught

Bsc(H) Chemistry	Bsc (Prog.)	Bsc (Prog.)Industrial Chemistry
Physical Chemistry	Physical Chemistry	Physical Chemistry

Research Guidance

- *Research Scholar Guided for M.Phil – One Awarded*
- *Research Scholar Guided for PhD – Two Registered*
- *UG Research Scholar Guided -- Ten (Project Completed)*

Publications Profile

Research papers published in Referred / Peer Reviewed Journals

1. Mahesh Chandra, R.S. Sindal, R.K. Gunsaria and R.C. Meena, "Role of Reductant and Photosensitizers in Solar Energy Conversion and storage: Oxalic acid – Brilliant Cresyel System." Arabian Journal for Science and Engineering, 31 (2A), 177-183 (2006). ugc sr no 8147
2. M. Chandra, R.S. Sindal, V. Kumar and R.C. Meena, "Role of Rose Bengal as Photosensitizer for Solar Energy Conversion and storage: Rose Bengal – Ascorbic Acid System." Journal of Energy Sources, 31(16), 2009, 1-9. Ugc Sr No-19581
3. Mahesh Chandra and R.C. Meena, "Use of Rose Bengal -Glucose System for Generation of Electrical Energy in Photo galvanic Cell." International Journal of Pure and Applied Chemistry, Vol. 5(4), 2010, ISSN - 0973 – 3876. Ugc Sr No-23424.
4. Mahesh Chandra and R.C. Meena, "Solar Cells Consisting of Photosensitizer - Reductant for Generation of Electrical Energy in Photo galvanic Cell" J. Indian Chem. Soc., 89, 2012, 63-67, ISSN-2091-0762. Ugc Sr.No-11061
5. Mahesh Chandra and R.C. Meena, "Role of Rose Bengal-Oxalic Acid System for Generation of Electrical Energy in Photo galvanic Cell." Int. J Res. Chem. Environ., 3(1), 2013, 15-19, ISSN-2248-9649. Ugc Sr No-44921
6. Mahesh Chandra, "Role of Ponceau-S-KI System for Generation of Electrical Energy in Photo galvanic Cell," Int. Res. Environment Sci., 2(1), 2013, 31-36, ISSN-2319-1414. Ugc Sr.No-46910
7. Mahesh Chandra, R.C. Meena, P.L. Meena and A.S. Meena, "Role of an Anionic Surfactant and Reductant in Photo galvanic cell for solar energy conversion and storage," Int. J. of Renewable Energy Research, 3(2) 2013, 276-282, ISSN-1309-0127, Ugc Sr No-23461
8. M. Chandra, R.C. Meena, P.L. Meena, R. Meena, sribai & A.S. Meena, " Electrochemical Studies of Anionic and Cationic Surfactants in Photo galvanic cell for solar energy conversion and storage," Int. J. of Electrical Engineering & Technology, 4(4) 2013, 180-187, ISSN- 0976-6553, Ugc Sr No-43685.
9. Mahesh Chandra, "Performance of Solar Cell for Conventional Energy Conversion in Electrical Energy." Review of Research Journal, ISSN-2249- 894X, 5(1), 37-42, 2015, Ugc Sr No-48514.
10. Mahesh Chandra, "Photochemical interaction of Rose Bengal with Reductant for Solar Energy Conversion and Storage in Electrical Energy." South Asia Journal of Multidisciplinary Studies, ISSN-2395-1079, 1(8), 88-93, 2015 Ugc Sr No-47642
11. Mahesh Chandra, "Performance of Photogalvanic Cell for Solar Energy Conversion and Storage in electrical Energy," Global Journal of Multidisciplinary Studies, "ISSN-2348-0459, 5(7), 204-209 2016, Ugc Sr No-48846.
12. Mahesh Chandra, "Performance of Solar Cell for Non- Conventional Energy Conversion," Review of Research journal, ISSN-2249-894X, 5(6), 45-50, 2016, Ugc Sr No-48514.

13. Mahesh Chandra, "Comparative Study of Photogalvanic Cell for Solar Energy Conversion and Storage," *Global J. of Engineering Science and Social Science*, ISSN-2394-3084, 3(2), 79-84, 2017, Ugc Sr No-6626.

14. Mahesh Chandra, "Performance of Solar Cell for Solar Energy Conversion and Storage South Asia Journal of Multidisciplinary Studies," ISSN-2395-1079, 3(6), 118-121, 2017, Ugc Sr No-47642.

15. Mahesh Chandra, "Use of Solar Cell for Solar Energy Conversion in Electrical," *Review of Research journal*, ISSN-2249-894X, 6(9), 52-58, 2017, Ugc Sr No- 48514

16. Mahesh Chandra, "Eco-Friendly Solar Energy Conversion and Storage in Electrical Energy." *International Journal of Engineering Science Invention*, "ISSN-2319-6734, 7(1), 52-57 2018, Ugc Sr.No-2573.

17. Mahesh Chandra, "Eco-friendly study of Reductant for solar Energy Conversion in Electrical Energy," *International Journal of basic and advance research* "ISSN-2454-4639, 4(2), 35-44, 2018, ISSN-45313.

18. Mahesh Chandra, "Modern approach of Solar Energy Conversion and Storage," *International Journal of Creative Research Thoughts*, "ISSN-2320-2882, 6(1), 1305-1311, 2018, Ugc Sr No-49023.

II. Research papers published in Refereed / Peer Reviewed Conference.

1. Mahesh Chandra, R.C.Meena and Nidhi Tyagi, "Use of Photosensitizer for Solar Energy Conversion and Storage (P-33)," *National Symposium on Recent Advance in Chemical Research RACR-05*, "Organized by Department of Chemistry, University of Rajasthan, Jaipur, on March 28- 29, 2005.

2. Mahesh Chandra, "Role of Photosensitizers in Solar Energy Conversion and Storage - Rose Bengal - Oxalic Acid, (P-24)," *National Workshop on Recent Trends in Analytical Technic (RTAT-07)*, "organized by Department of Chemistry, DDU College, University of Delhi, New Delhi, on February 14 th -15 th , 2007.

3. Mahesh Chandra and Vijay Kumar Meena, "Transformation of Organic Pollutant in Aqueous Suspension by Photo catalyst, (OP-50)," *44 th Annual Convention of Chemists*, "organized by Indian Chemical Society, Kolkata, on December 23 rd - 27 th 2007.

4. Mahesh Chandra, Vijay Kumar, Navneet Singh and R.C. Meena , "Photochemical Interaction of Role of Rose Bengal for Solar energy Conversion and Store : Rose Bengal - Ascorbic Acid System (OP-11)," *National Symposium on "Emerging Trends in Advanced Chemistry (ETAC-08)*, "organized by CAS, Department of Chemistry, University of Rajasthan, Jaipur, on March 8 th - 10 th , 2008.

5. Mahesh Chandra and R.C. Meena, "Role of Rose Bengal as Photosensitizer for Solar energy Conversion and Store : Rose Bengal - Potassium Iodide System (PP-124), : *International Conference on "Electrocemicals (ICE-2009)*,: organized by Department of Physics, University of Delhi, New Delhi, on December 13 th -17 th 2009.

6. Mahesh Chandra and R.C. Meena "Role of Rose Bengal - Glycerol System for Generation of Solar energy and Storage in Photo galvanic Cell;(OP-63)," *National Conference on "smart Energy Generation, Promotion and Conversation -2010*, "organized by Department of Electrical Engineering, Chitkara Institute of Engineering and Technology, Rajpura, Punjab, on January 15th - 16 th , 2010.

7. Mahesh Chandra and R.C. Meena, "Photochemical Studies of Photosensitizer for Solar energy and Storage in Photo galvanic Cell (OP-55)," *National Seminar on Analytical Electrochemistry (NSAC-2010)*, "organized by Department of Chemistry, JNV University, Jodhpur, on February 8 th - 10 th , 2010.

8. Mahesh Chandra, S.L.Meena, Sonal, Gautam Singh and R.S. Sindal, "Photo Electrochemical Interaction in Role of Rose Bengal - Glucose System for Water Purification; (OP-23)," *DST Workshop on "Water Purification, Possibilities and Prospects (WPPP-2010)*, " organized by Department of Chemistry, JNV University, Jodhpur, on December 4 th - 5 th 2010.

9. Mahesh Chandra and R.C. Meena, " Photochemical Interaction of Rose Bengal as

- Photosensitizer for Solar energy Conversion and Storage; (OP-03)," National Conference on "Role of Green Chemistry For Risk Free Environment (RGCRFE-2010)," Organized by Poornima Group of Institutions of Engineering Technology, Jaipur, on December 18 th ,2010.
10. Mahesh Chandra and R.C. Meena, "Photochemical Studies of Rose Bengal with Reductants for Solar Energy Conversion; (SP-42)," International Conference on Renewable Energy (ICRE-2011)," Organized by Centre for Non-Conventional Energy Resources, University of Rajasthan, Jaipur, on January 17 th -21 st , 2011.
11. Mahesh Chandra, Manju Choudhary, Anoop Singh, Munesh Meena, S.L.Meena and R.S.Sindal,"Photochemical Interaction of Rose Bengal as Photosensitizer for Solar energy Conversion and Storage (PC-31)," National Symposium on Radiation Photochemistry (NSRP-2011), Organized by Department of Chemistry, JNV. University, Jodhpur, on March 10 th -12 th , 2011.
12. Mahesh Chandra, 'Transformation of organic pollutants in Aqueous Suspension by photo catalyst;(OP-05),"National Conference on "New methods and technologies for water Conservation & Purification;(NMTWCP-2012),"organized by Poornima Group of Institutions of Engineering& Technology, Jaipur, on March 3 rd ,2012
13. Mahesh Chandra and R.C. Meena,"Photochemical Interaction of Photosensitizer for Solar energy Conversion and Storage;(PP-30),"International Conference on Interface between Chemistry and Environment;(ICICE-2012),"Organized by Department of Chemistry, Ramjas College, University of Delhi, New Delhi, on December 13th -14 th , 2012.
14. Mahesh Chandra,"Photochemical Studies of Photosensitizer for Generation of Electrical Energy in Photo galvanic Cell," National Seminar on "Frontier and Challenges in Pharmaceutical & Environmental Chemistry;(NSFCPEC-2013)," Organized by Department of Chemistry, Dyal Singh College, University of Delhi, New Delhi, on March 1 st -2 nd ,2013.
15. Mahesh Chandra and Amar Singh Meena, "Photochemical Study of Rose Bengal for Solar energy Conversion and Storage as Electrical Energy;(PP-18)," National Seminar "Chemistry in Interdisciplinary Applications"(NSCIA-2013)," Organized by Department of Chemistry, Hans Raj College, University of Delhi, New Delhi, on March 19 th , 2013.
16. Mahesh Chandra, "Studies of Solar Energy Conversion and Storage in Photo galvanic Cell;(PP-),"National Conference on Frontiers at the Chemistry-Allied Sciences Interface"(FCASI-2015)," Organized by Centre of Advanced Study, Department of Chemistry, University of Rajasthan, Jaipur, on March 13 th -14 th , 2015
17. Mahesh Chandra, Electrochemical Studies of Solar energy Conversion and Storage in Photo galvanic Cell,"National conference on Recent Advancements in Chemical Sciences(RAICS-2015)," Organized by Department of Chemistry,MNIT Jaipur,on Aug 21-23,2015
18. Mahesh Chandra, Photochemical Study of Photosensitizer for Solar Energy Conversion and Storage, "International Seminar Recent Trends in Chemical Science: Global, Prospecting and Progress (ISRTCSGPP-2016)," Organized by Department of Chemistry, SGG Govt. College Banswara (Raj.),on Nov.28-29,2016
19. Mahesh Chandra, Photochemical Interaction of Photosensitizer for Solar Energy Conversion and Storage in Electrical energy in Photo galvanic Cell, " National Symposium on Electro Chemistry, Energy and Environment (NSEEE-2016)," Organized by Department of Chemistry JNV Uni.Jodhpur (Raj.), on Dec.16th-18th,2016
20. Mahesh Chandra, Photochemical Interaction of Photosensitizer for Solar Energy Conversion and Storage in Electrical Energy," National Conference on Ground Water Quality, Water Conversion, Management and Technology (NCGWCMT-2017)," Organized by Department of Chemistry Govt. RRP College Alwar (Raj.) on Jan.20-21,2017
21. Mahesh Chandra, Use of Photogalvanic Cell for Generation of Electrical energy,"National Workshop on Recent Advances in Chemical Sciences(NWRACS-2017)," Department of Chemistry, Govt. Dungar College Bikaner (Raj.) on Jan.23-25,2017
22. Mahesh Chandra,Photochemical Interaction of Solar Energy Conversion and Storage in Electrical Energy in Photogalvanic Cell, "National Conference on Clean & Green Energy:

The Chemical & Environmental Aspects (NCCGE-2017)," Organized by Department of Chemistry, Bhaskaracharya College of Applied Sciences, Uni. of Delhi, on Feb.16-17,2017

23. Mahesh Chandra, Photochemical Interaction of Photosensitizer for Solar Energy Conversion and Storage, "International Research Conference (IRC-2017) Organized by JNU, New Delhi, on Feb.26,2017

24. Mahesh Chandra, Electrochemical Studies of Generation of Solar energy conversion & Storage in Photogalvanic Cell, "National Seminar on Recent Innovations in Chemical Science And Environment Technology (NSRICSET-2017)," Organized by, Department of Chemistry, Sri Aurabindo College Uni. of Delhi, on March 3-4,2017

25. Mahesh Chandra, New Approach of Solar energy Conversion and Storage in Photogalvanic cell Third National Symposium on Environment: challenges Generation Next (NSECGN-2017)," Organized by Department of Zoology, Deshbandhu College Uni. of Delhi, on March 31,2017

26. Mahesh Chandra, "New Approach of Solar energy Conversion and Storage in Electrical Energy in Photo galvanic Cell, " 3 rd International Conference on Recent Advances in Engineering Science and Management (ICRAESM-2017)," Organized by IETE ,Chandigarh, on Sept.24,2017

27. Mahesh Chandra, "Recent Approach of Solar Energy Conversion and Storage in Electrical Energy," 8th International Conference on Recent Development in Engineering Science, Humanities and Management (ICRDESHM-2017),"Organized by The Institutions of Engineers, Delhi State Centre. New Delhi, on Oct.1,2017

28. Mahesh Chandra, "New Technology for Solar Energy Conversion and storage in photo galvanic Cell, "International Conference on Advancing Green Chemistry: Building A Sustainable Tomorrow (ICAGC-2017),"Organized by Department of Chemistry, Uni. of Delhi, on Oct.3-4,2017

29. Mahesh Chandra, "New Approach of Solar Energy Conversion and Storage 6th International Conference on Emerging Trends in Engineering Technology, Science and Management (ICETETSM-2017),"Organized by IETE Ganganagar, Bengaluru, Karnataka, on Oct.7,2017

30. Mahesh Chandra," Approach of Photochemical Study of Solar Energy Conversion and Storage," National Seminar on Environmental Sustainability and Conversion: Issues and Challenges in 21 st Century (NSESC-2017), "Organized by Satyawati College , University of Delhi, On Nov.15,2017

31. Mahesh Chandra," Approach of Photochemical Study of Solar Energy Conversion and Storage in Electrical Energy," International Conference on ETDDNP-2018, "Organized by Department of Chemistry, University of Delhi, on Jan.12-14,2018

32. Mahesh Chandra," New Approach of Solar Energy Conversion and Storage in Electrical Energy in Photo galvanic Cell, "National Conference on RAIPLS-2018," Organized bDepartment of Chemistry, University of Rajasthan, Jaipur, on July.6- 7,2018

33. Mahesh Chandra," Study of Photosensitizer- Reductant Solar Cell for Solar Energy Conversion and Storage in Electrical Energy," International Conference on RAIPLS-2019, "Organized by Department of Chemistry, University of Rajasthan, Jaipur, on Jan.28-30,2019

34. Mahesh Chandra," Study of Solar Energy Conversion and Storage in Electrical Energy," National Conference on NCEE-2019, "Organized by Department of Chemistry, JNV University, Jodhpur, on March 9-10,2019.

35.Mahesh Chandra,"Effect of surfactant for solar energy and storage in electrical energy,"International Conference on Modern Approaches of Chemical Sciences and Nanomaterials -2019(ICMASCN-2019)."Organized by Department of Chemistry ,Mody University of Science and Technology,Laxmagarh Sikar (Raj.),on August 26-27,2020.

36.Mahesh Chandra, "Effect of Reductant for Solar Energy Conversion and storage in Electrical Energy," National Conference on Clean & Green Energy: The Chemical & Environmental Aspects (NCCGE-2019), Organized by Department of Chemistry, Bhaskaracharya College of Applied Sciences, Uni. of Delhi, on Sept.26-27,2019.

37. Mahesh Chandra, " use of mix Dye for Solar Energy Conversion and storage"
National Seminar on Biophysics Biophysika-2019 organised by Centre for Interdisciplinary Research in Basic Sciences ,Jamia millia Islamia central University New Delhi ,on oct.4,2019,
38.Mahesh Chandra,"Study of Mix Surfactant for Solar Energy Conversion and Storage in Electrical Energy" VII-Rajasthan Science Congress National conference on "Current Scenario in Science and Technology: Facing the Challenges and Creative opportunities "(RSC-2019). Organized by Department of Chemistry, Mohanlal Sukhadia University Udaipur on Oct.14-16,2019.
39.Mahesh Chandra," Chemistry-an-Eco-Friendly-Techanology for Solar Energy ,"International conference on"Environmental Challenges and Solutions," jointly Organized by Shiksha Sanskriti Utthan Nyas,Dikshina foundation, New Delhi and Manav Rachna International Institute of Research and Studies ,Faridabad on Jan 31,2020 to Feb 2,2020.

Books/Reports/Chapters/General articles etc.

1. Dr Mahesh Chandra,Concise Book of Physical Chemistry,Sara Book Publication,June,2018, ISBN -978-1-73038-191-1
- 2.Dr Mahesh Chandra, Text Book of Physical Chemistry,Sara Book Publication,June,2018,ISBN-978-1-73037-290-2
- 3.Dr Mahesh Chandra,Solar Energy,Lulu Publication / Laxmi Book Publication,Dec.,2019,ISBN-978-1-79473-172-1
- 4.Dr Mahesh Chandra,Renewable Energy Akinik Publication,Dec.,2019,ISBN-978-93-5335-976-8

Conference Organization/ Presentations

1. National Conference on "Role of Green Chemistry for Risk Free Environment; (RGRFE-2010), on December 18 th , 2010, at Jaipur (State advisory Committee).
2. National Conference on "New methods and technologies for water Conservation & Purification;(NMTWCP-2012),"on March 3 rd ,2012,at Jaipur (organizing committee)
3. Indo-Portuguese Workshop on Emerging Trends of Nanotechnology in Chemistryand Biology(INCB-2016)," on Feb.12-13,2016, at Hansraj college and Deshbandhu college, University of Delhi (organizing committee)
4. International Conference on Recent Advances at Interfaces of Physical and life Sciences (RAIPLS-2019),"on Jan.28-30,2019,at Jaipur (National AdvisoryCommittee)

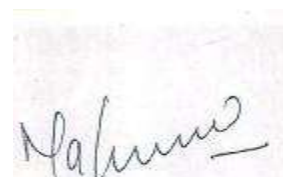
Research Projects (Major Grants/Research Collaboration)

Innovation Project(2013-2015) University of Delhi
Period : 18 Months
Grant/Amount Mobilized: 7 Lakh (Rs. lac)

Awards and Distinctions

- Rashtriya Shiksha Ratan Award 2019,MVLA,Mumbai.
- National Young faculty Award-2019 , CEGR,New Delhi.
- Young scientists Award-2018 , IARDO,Goa.
- Anthardawani Award-2015 , Theme:- Best display award in Scientific Arena,University of Delhi.

Association With Professional Bodies
<ul style="list-style-type: none">• Indian Science Congress, Indian Chemical Society , Kolkata.• World Society of Sustainable Energy Technologies• Indian Society for Radiation and Photochemistry Sciences,Mumbai.• Life Member , Association of chemistry Teachers(ACT),TIRF,Mumbai.• Life Member of Association of Chemistry Teachers-ACT (LM No.1808)• Life Member of India Society for Radiation and Photochemical sciences(LM-408)• Life Member of World Society of Sustainable Energy Technologies• Member of Indraprastha Vigyan Bharati• Member of Centre for Education Growth and Research
Other Activities



Signature of Faculty
Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.