




# Bhaskaracharya College of Applied Sciences (University of Delhi)

Sector II, Phase I, Dwarka, New Delhi – 110075

## FACULTY PROFILE

Title	Dr	First Name	Manjeet Singh	Last Name	Barwa	
Designation	Assistant Professor					
Department	Chemistry					
Address (Campus)	Bhaskaracharya College of Applied Sciences, Phase-I, Sec-2, Dwarka-110075					
Contact Details	+91-9999641960					
Fax (Campus)						
Email Id	manjeetbarwa@gmail.com					
Educational Qualification	Subject	Institution				
Ph.D	Chemistry	Kurukshetra University, Kurukshetra				
M.Sc.	Chemistry	Kurukshetra University, Kurukshetra				
Research Interests/ Specialization						
Coordination Chemistry, Environmental Sciences						
Teaching Interest						
Inorganic Chemistry, Organic Chemistry						
Achievements/Patents						

<ol style="list-style-type: none"> <li>1. Project Fellowship (PF) awarded in MRP UGC New Delhi at Kurukshetra University, Kurukshetra, July 2003-June 2006.</li> <li>2. Awarded Consolation prize for paper presentation in an International Conference on Sustainable Development and Resource Utilization: Current Trends and Perspectives, University of Rajasthan, Jaipur, (2005).</li> <li>3. Awarded as Certificate of Appreciation for the Innovation Project(BCAS-312) during Research Display at the Convocation Ceremony, University of Delhi, Nov 19, 2016.</li> </ol>			
<b>Publications (Last Five Years)</b>			
<b>Year of Publication</b>	<b>Title</b>	<b>Journal</b>	<b>Co-author/s</b>
2021	Terrestrial Gamma Radiation Dose (TGRD) Environmental Distribution in Alluvial Soil Region, its Monsoonal Variation and Assessment of Lifetime Cancer Risk, Vol 25(2) 186-193.	Research Journal of Chemistry and Environment	Shwetank Shashi Pandey, Bholey Singh, Manjeet Singh Barwa, Y.P Gautam and Balaram Pani
2020	Geochemical Signatures and Chemical Toxicity Assessment of Groundwater Uranium in the Agricultural Dominated Tehsil after Indian Summer Monsoon, Vol. 24 (10) 1-6.	Research Journal of Chemistry and Environment	Shwetank Shashi Pandey, Bholey Singh, Manjeet Singh Barwa, Y.P Gautam and Balaram Pani
2017	Physiological, Phenological and Grain Yield Responses in Wheat due to Delayed Sowing, 112 49042, 49042-49045.	Elixir Appl. Botany	Shubhra Barwa, Balaram Pani and Manjeet Singh Barwa
2017	Hyperaccumulation: A Phytoremediation approach for pollution control, Vol. 6(11), 46-52.	International Research Journal of Environmental Sciences	Shubhra Barwa, Balaram Pani and Manjeet Singh Barwa
2017	Packaging material and need of biodegradable polymers: A review, Vol 3(7) M, 886-896.	International Journal of Applied Research	Prem Lata Meena, Vinay, Abhay Goel, Vipin Rai, Eram Rao S, and Manjeet Singh Barwa
2017	Biodegradable Polyester Packaging Film: Synthesis & Application, Vol 8(1), 1-4.	International Journal of Applied Chemistry	Prem Lata Meena, Vinay, Vipin Rai, Abhay Goel, Najiburrahman, Eram S. Rao, Manjeet Singh Barwa
<b>Conference Publications</b>			
2019	Design, synthesis and physico-chemical study of triazoles/schiff bases with potential anti-fungal activity	2 <sup>nd</sup> National Conference on Clean & Green Energy: The Chemical & Environmental Aspects, BCAS, University of Delhi, Delhi.	Manjeet Singh Barwa
2019	Development of new biodegradable film for packaging materials	National Conference on Recent Trends and Advancements in Chemical Sciences, Conference Center, University of Delhi, Delhi.	Manjeet Singh Barwa
2018	Design, synthesis and physico-chemical study of acylated 1,2,4- triazole-3-acetates with potential anti-fungal activity	9 <sup>th</sup> National Conference on Recent Advances In Chemical, Biological and Environmental Sciences, Multani Mal Modi College, Patiala	Manjeet Singh Barwa
2018	Transition metal complexes of a Schiff base: Synthesis, characterization and biological studies	National Conference on the topic Recent trends in Chemical, Environmental and Material Sciences, DAV College, Abohar	Manjeet Singh Barwa
2018	Phytoremediation of Heavy Metals: An Approach Towards Environment Management' at the	6 <sup>th</sup> International Conference on Ecotoxicology & Environmental Sciences held at Netaji Subhas Institute of Technology, New Delhi.	Manjeet Singh Barwa

2017	Development of novel biodegradable polyester film for packaging	10 <sup>th</sup> National Conference on Solid State Chemistry and Allied Areas, Delhi Technological University, Delhi.	Manjeet Singh Barwa
2017	“Sacred Groves and Biodiversity Conservation”,	National Seminar on Biodiversity: Status and Significance, MD University, Rohtak, Haryana	Manjeet Singh Barwa, Shubhra Barwa and Balam Pani,
2016	Physiochemical properties and sensory evaluation of cookies prepared with non-nutritive sweetener	National Conference on Advances in Food Science and Technology (NCAFST) at Shaheed Rajguru College of Applied Sciences for Women, DU.	Manjeet Singh Barwa, Prem Lata Meena, Eram S. Rao
2016	Developing Sustainable energy sources by the use of Potential Renewable Energy Resources	International Conference on Green Chemistry in Environmental Sustainability & Chemical Education (ICGC-2016), at Daulat Ram College, University of Delhi, Delhi	Manjeet Singh Barwa, Prem Lata Meena, Anil Barak, Shubhra Barwa, Balam Pani,
2016	Synthesis characterization, printability and food compatibility of Lactic acid based terpolyester film,	International conference on material science and technology at Conference Centre , University of Delhi.	Prem Lata Meena, Manjeet Singh Barwa, Eram S.Rao, Krishna Dutt, Najiburrehman, Vinay, Abhay Goel, Vipin Rai, Aishwarya Rajendran, Nikita Chhabra, Preeti Tyagi, Saumya Sood, Tanu Shiva,
2016	Development of cookies with biodegradable packaging material for diabetics	National Conference on “Food Processing and Technology: Current Status and Future Prospects (NCFPT-2016)” at School of Bioengineering and Food Technology, Shoolini University, Solan (HP).	Eram Rao, Prem Lata Meena, Manjeet Singh Barwa, Krishna Dutt, Preeti Tyagi, Nikita Chhabra, Aishwarya Rajendran , Saumya Sood, Vinay, Najiburrehman, Abhay Goel, Vipin Rai,
2016	Synthesis and characterization of biodegradable thermoplastic polyester film for food packaging	5th National Symposium on Advances in Chemical Sciences at Guru Nanak Dev University, Amritsar.	Manjeet Singh Barwa, Prem Lata Meena, Eram S.Rao, Krishna Dutt, Najiburrehman, Vinay, Abhay Goel, Vipin Rai, Aishwarya Rajendran, Nikita Chhabra, Preeti Tyagi, Saumya Sood, Tanu Shiva,
2016	Synthesis, Characterization, Printability & food Compatibility of Lactic Acid based Terpolyester Film for Food Packaging	One day seminar on Polymer Modification, Processing and Characterization, organised by PEARLS, Departmental Society of Polymer Science, Bhaskaracharya College of Applied Science, University of Delhi	Manjeet Singh Barwa, Prem Lata Meena, Eram S.Rao, Krishna Dutt, Najiburrehman, Vinay, Abhay Goel, Vipin Rai, Aishwarya Rajendran, Nikita Chhabra, Preeti Tyagi, Saumya Sood, Tanu Shiva,
2016	Synthesis of a Novel Biodegradable Polyblend for Food Packaging	One day seminar on Polymer Modification, Processing and Characterization, organised by PEARLS, Departmental Society of Polymer Science, Bhaskaracharya College of Applied Science, University of Delhi	<b>Manjeet Singh Barwa</b> , Prem Lata Meena, Eram S.Rao, Krishna Dutt, Najiburrehman, Vinay, Abhay Goel, Vipin Rai, Aishwarya Rajendran, Nikita Chhabra, Preeti Tyagi, Saumya Sood, Tanu Shiva,

**Project (Minor/Major)**

- ❖ **Development of cookies with biodegradable packaging material for diabetics, BCAS-312, (2015-16). Innovation Projects sponsored by University of Delhi.**
- ❖ **Spatial Distribution of uranium and associated water quality parameters in groundwater/ surface water in six(06) districts of Uttar Pradesh (Agra, Mathura, Mahamaya Nagar, Kanshiram nagar, Etah and Badaun), sponsored from BRNS, BARC, Bombay, 2015-18.**

**Any other information**

### **E-content**

1. Singh S., Mangawa S.K. & Barwa M.S. (2020) contributed a module title 'Alcohol: Introduction, Preparation and Reactions' in the development of Teacher's e-Kit (e-content in Four Quadrants) in Chemistry at GAD-TLC of MHRD under PMMMNMTT, SGTB Khalsa College, University of Delhi, Delhi.

### **Book Chapter**

1. Swasth Bharat Samridh Bharat, Manjeet Singh Barwa, Shubhra Barwa, Balam Pani, Healthcare Systems In India: Challenges and Futuristic Path, International Publishers, 81- 87, 2019, ISBN: 978-93-89198-02-7.
2. Practical Handbook of Food Engineering, Meenakshi Garg, Saumya Chaturvedi, Susmita Dey Sadhu, Manjeet Singh Barwa & Balam Pani, Aaryush Education, 2020, ISBN: 978-81-930437-5-2.

### **Life Membership of Academic Societies**

- ❖ The Indian Science Congress Association (L 20445)
- ❖ International Association of Engineers (IAENG) (L 106016)
- ❖ Indian Chemical Society(F/7950 LM )
- ❖ Green Chemistry Network Centre, University of Delhi( 0611/17/253)

### **Papers Reviewed for International journals**

1. Chemical Papers
2. Bioinorganic Chemistry and Applications
3. American Chemical Science Journal
4. International Research Journal of Pure and Applied Chemistry
5. Spectrochimica Acta Part A: Molecular and Bimolecular Spectroscopy
6. Open Journal of Medicinal Chemistry
7. International Journal of Biochemistry Research & Review

### **Professional Qualification**

1. Diploma in Science Journalism, 2010 from Indian Science Communication Society, Lucknow
2. Certificate Course in German Language, 2006 from Kurukshetra University, Kurukshetra

### **Conference/Seminar/Workshops organized**

1. Coordinated the National Workshop on "Intellectual Property Rights: Culmination of Research" held at BCAS, on Sept 23-24, 2016.
2. Member of organizing committee of One day seminar on "Career Opportunities for Polymer Engineers" held at BCAS on Aug 12, 2016.
3. Member of organizing committee of One day seminar on "Polymer Modification, Processing and Characterization" held at BCAS on Jan 25, 2016.
4. Member of organizing committee of Tech. Quiz "ABHIGYAN" held at BCAS on Jan 21, 2016.
5. Organized the National Conference on "Clean & Green Energy: The Chemical & Environmental Aspects" as Co-converor at Bhaskaracharya College of Applied Sciences, Dwarka from 16-17, Feb 2017.
6. Organizing Secretary of two days 2nd National Conference on 'Clean & Green Energy: The Chemical & Environmental Aspects' at Bhaskaracharya College of Applied Sciences, Dwarka, September 26-27, 2019.
7. Member of organizing committee of three days National Conference on Recent Trends and Advancements in Chemical Sciences on March 29-31, 2019 at Conference Center, University of Delhi, Delhi.