

## FACULTY PROFILE PROFORMA

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| Title<br>(Ms/Mr/Dr/Prof)                                                                                                                                                                                                                                                                                                                                                                                                    | Dr                                                                                                      | FirstName                                           | Rajita | LastName                                  |                                                                                                                               | Photograph<br> |
| Designation                                                                                                                                                                                                                                                                                                                                                                                                                 | Assistant Professor                                                                                     |                                                     |        |                                           |                                                                                                                               |                                                                                                   |
| Department                                                                                                                                                                                                                                                                                                                                                                                                                  | Chemistry                                                                                               |                                                     |        |                                           |                                                                                                                               |                                                                                                   |
| Address<br>(Official)                                                                                                                                                                                                                                                                                                                                                                                                       | Department of Chemistry,<br>Kalindi College (University of Delhi)<br>East Patel Nagar, New Delhi-110008 |                                                     |        |                                           |                                                                                                                               |                                                                                                   |
| Phone No.                                                                                                                                                                                                                                                                                                                                                                                                                   | --                                                                                                      |                                                     |        |                                           |                                                                                                                               |                                                                                                   |
| Email                                                                                                                                                                                                                                                                                                                                                                                                                       | rajita@kalindi.du.ac.in                                                                                 |                                                     |        |                                           |                                                                                                                               |                                                                                                   |
| <b>Education</b>                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                         |                                                     |        |                                           |                                                                                                                               |                                                                                                   |
| <b>Subject</b>                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                         | <b>Institution</b>                                  |        | <b>Year</b>                               | <b>Details</b>                                                                                                                |                                                                                                   |
| PhD Chemistry                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         | CCS Haryana Agricultural University, Hisar, Haryana |        | 2022                                      | <b>Topic</b> -Green Synthesis of gold nanoparticles and evaluation of their catalytic, antioxidant and antimicrobial activity |                                                                                                   |
| MSc Chemistry                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         | CCS Haryana Agricultural University, Hisar, Haryana |        | 2017                                      | OGPA 8.7                                                                                                                      |                                                                                                   |
| BSc(Medical)                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                         | KUK, Kurukshetra, Haryana                           |        | 2015                                      | 88.6                                                                                                                          |                                                                                                   |
| <b>Career Profile</b>                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                         |                                                     |        |                                           |                                                                                                                               |                                                                                                   |
| <b>Organisation/Institution</b>                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                         | <b>Designation</b>                                  |        | <b>Duration</b>                           | <b>Role</b>                                                                                                                   |                                                                                                   |
| Kalindi College, University of Delhi                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                         | Assistant Professor                                 |        | 8 <sup>th</sup> January 2024 to till date | Teaching and administrative duties                                                                                            |                                                                                                   |
| <b>Research Interests/Specialization</b>                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                         |                                                     |        |                                           |                                                                                                                               |                                                                                                   |
| <ul style="list-style-type: none"> <li>Phytochemistry</li> <li>Nanoparticles synthesis</li> <li>Green Chemistry</li> </ul>                                                                                                                                                                                                                                                                                                  |                                                                                                         |                                                     |        |                                           |                                                                                                                               |                                                                                                   |
| <b>Administrative Assignments / Contribution to corporate life</b>                                                                                                                                                                                                                                                                                                                                                          |                                                                                                         |                                                     |        |                                           |                                                                                                                               |                                                                                                   |
| <ul style="list-style-type: none"> <li>Convenor- Committee for Collaboration and exchange Programmes, Staff Council Committee, 2024</li> <li>Member: All India Survey of Higher Education (AISHE), Staff Council Committee, 2024</li> <li>Member- Registration committee, Lehen, 2024</li> <li>Member- Stage property, Annual day, 2024</li> <li>Member- AQAR, Criteria –III.</li> <li>Member- Alumni Meet, 2024</li> </ul> |                                                                                                         |                                                     |        |                                           |                                                                                                                               |                                                                                                   |
| <b>Teaching Experiences (Subject/Courses taught)</b>                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                         |                                                     |        |                                           |                                                                                                                               |                                                                                                   |
| <ul style="list-style-type: none"> <li>BSc(P) Life Sciences Semester VI: Organometallic Chemistry, Bio-inorganic chemistry, Polynuclear hydrocarbons and UV-IR</li> <li>BSc(H) Chemistry Semester II: Chemical thermodynamics and its applications</li> <li>BSc(P) Life Sciences Semester II: Chemical bonding and their elements in biological systems</li> </ul>                                                          |                                                                                                         |                                                     |        |                                           |                                                                                                                               |                                                                                                   |

| • BSc(H) Chemistry Semester 1: Atomic Structure and Chemical Bonding |                                                                                                                         |                                                                           |                                                                                            |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Research Guidance</b>                                             |                                                                                                                         |                                                                           |                                                                                            |
| NA                                                                   |                                                                                                                         |                                                                           |                                                                                            |
| <b>Publication (Peer Reviewed/Indexed Journals)</b>                  |                                                                                                                         |                                                                           |                                                                                            |
| <b>Year of Publication</b>                                           | <b>Title</b>                                                                                                            | <b>Journal (Name of the journal. Vol Issue ISSN)</b>                      | <b>Co-Author</b>                                                                           |
| 2022                                                                 | Green Synthesis of gold nanoparticles: An eco-friendly approach                                                         | International Journal of Basic and Applied Biology, 9(1), ISSN: 2394-5820 | Sushila Singh                                                                              |
| 2022                                                                 | Biochemical and molecular mechanism of plant- mediated synthesis of silver nanoparticles- A review                      | Mini-reviews in Organic chemistry, 19(8), ISSN :1875-6298                 | Ritu Dalal, Sushila Singh, Seema Sangwan, Monika Moond                                     |
| 2022                                                                 | Effect of extraction solvents on phytochemicals and antioxidant potential of turnip roots (Brassica rapa L.)            | Agricultural Science Digest, ISSN: 0976-0547                              | Sushila Singh and Parvesh Devi                                                             |
| 2022                                                                 | Green synthesis and applications of silver nanoparticles: a systematic review                                           | AATCC journal of research, 9(6), ISSN:2472-3444                           | Monika Moond, Sushila Singh, Seema Sangwan, Ritu Devi                                      |
| 2023                                                                 | Estimation of phytochemicals and antioxidant potency of trigonella foenum-graecum leaves (variety HM444)                | Agricultural Science Digest, ISSN: 0976-0547                              | Monika Moond, Sushila Singh, Ritu Devi, Pinki                                              |
| 2023                                                                 | Proximate composition, phenolic, flavanoid content and antioxidant potential of Syzygium cumini (L.) skeels seed powder | Annals of phytomedicine: an international journal, 12(1), ISSN:2278-9839  | Ritu Devi, Sushila Singh, Monika Moond, Sandeep Kumar, Sachin Kumari and Rajni Kant Sharma |
| 2023                                                                 | Proximate and mineral analysis of Trigonella foenum-graecum L (Fenugreek) seeds and leaves of variety HM444             | Annals of phytomedicine: an international journal, 12(1), ISSN:2278-9839  | Monika Moond, Sushila Singh, Ritu Devi, Pinki Matoria, Sachin Kumari and Rajni Kant Sharma |
| 2024                                                                 | Raphanus sativus L.roots: Proximate analysis and antioxidant activity                                                   | Annals of phytomedicine: an international journal, 13(1), ISSN:2278-9839  | Sushila Singh, Ritu Devi, Seema Sangwan and                                                |

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| <b>Seminar/Workshop/Conferences Presentation/Organisation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |              |
| <b>Conferences:</b> <ul style="list-style-type: none"> <li>Participated in national conference on Trends in Nanobiotechnology (NCTN-2016) organized by CCS Haryana Agricultural University, Hisar from November 29-30<sup>th</sup>, 2016.</li> <li>Participated in international conference on Emerging areas of Environmental Science and Engineering (EAESE-2017), organized by GJU&amp;ST, Hisar from 16-18<sup>th</sup> February, 2017.</li> <li>Participated in national conference on Analytical techniques and their applications organized by Dr A.P.J. Abdul Kalam Central instrumentation Laboratory, GJU&amp;ST, Hisar from 16-17<sup>th</sup> march, 2017.</li> <li>Participated in international conference on “Bio and Nano technologies for Sustainable Agriculture, Food, Health, Energy and Industry (ICBN-2018), held at GJU&amp;ST, Hisar from February 21-23<sup>th</sup>, 2018.</li> <li>Participated in the course “Nanostructured metal oxides for sensing and environmental applications” under the Global initiative for academic networks (GIAN), Punjab University, Chandigarh from 6-10<sup>th</sup> August, 2018.</li> <li>Participated in international symposium on Innpreneurship; a need of sustainable agriculture organized by CCS Haryana Agricultural University, Hisar from Feb 2-3, 2019.</li> <li>Participated in DAE symposium on Current trends in Theoretical Chemistry (CTTC-2020) organized by Chemistry division, Bhabha Atomic Research Center, Mumbai from September 23-25, 2021.</li> <li>Gave oral presentation on the paper entitled “Green Mediated Synthesis of Gold nanoparticles (AuNPs) using aqueous Neem extract“ in the 6<sup>th</sup> Asia Pacific International Modern Science Congress held on 15<sup>th</sup>-16<sup>th</sup> December, 2021, organized by Mata Sundri College for Women, University of Delhi.</li> <li>Participated and Won the Best Oral Paper Presentation award at National Conference on Sustainable Environmental perspectives: A Journey from Ancient India, 5<sup>th</sup>-6<sup>th</sup> June 2022, Deen Dayal Upadhyaya College, University of Delhi.</li> <li>Participated and Won the Best Oral Paper Presentation award at International Conference on Climate Change, Sustainable Development &amp; Smart Agriculture, ICSSA-2023, 6<sup>th</sup>-7<sup>th</sup> April 2023, Kalinga University, Naya Raipur, Chhattisgarh.</li> </ul> <b>FDP/FIP attended</b> <ul style="list-style-type: none"> <li>UGC sponsored Faculty Induction Programme on Faculties in Universities/ Colleges/ Institutes of Higher Education, organized by Malaviya Mission Teacher Training Centre, Kannur University from 18<sup>th</sup> July-14<sup>th</sup> August 2024.</li> <li>FDP on NEP 2020 Orientation and Sensitization Programme under MM-TTP of University Grants Commission Organized by CPDHE (UGC-MMTC), University of Delhi from 8<sup>th</sup> -17<sup>th</sup> October, 2024.</li> </ul> |  |              |
| <b>Awards &amp; Distinctions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |              |
| <ul style="list-style-type: none"> <li>Qualified CSIR-UGC (JRF), December-2019.</li> <li>Awarded best oral paper presentation award at National Conference on Sustainable Environmental perspectives: A Journey from Ancient India, 5<sup>th</sup>-6<sup>th</sup> June 2022, Deen Dayal Upadhyaya College, University of Delhi.</li> <li>Awarded best oral paper presentation award at International Conference on Climate Change, Sustainable Development &amp; Smart Agriculture, ICSSA-2023, 6<sup>th</sup>-7<sup>th</sup> April 2023, Kalinga University, Naya Raipur, Chhattisgarh.</li> <li>Awarded meritorious awards during all three consecutive years of BSc (Medical) in Govt. P.G. College, Hisar, Haryana.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |              |
| <b>Public Service/ University Service/ Consulting Activity</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |              |
| NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |              |

| Professional Societies Memberships     |
|----------------------------------------|
| NA                                     |
| Projects(Major Grants/ Collaborations) |
| NA                                     |
| OtherDetails                           |
| NA                                     |