

## FACULTY PROFILE



|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |       |                              |                                                                         |    |                                   |    |          |    |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|------------------------------|-------------------------------------------------------------------------|----|-----------------------------------|----|----------|----|
| Name                                                | Prof Ratnesh Das                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |       |                              | Date of Birth:01/01/1972                                                |    |                                   |    |          |    |
| Designation                                         | Professor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |       | Date of holding Present Post |                                                                         |    | July 19, 2019                     |    |          |    |
| Name of the Department and School                   | Department of Chemistry<br>Dr.HarisinghGour University<br>(A Central University; 'A' Grade by UGC-NAAC)<br>Sagar (M.P.)-470003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |       |                              |                                                                         |    |                                   |    |          |    |
| Contact Details                                     | Email :ratneshdas1@gmail.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |       |                              | Mobile:7697834544                                                       |    |                                   |    |          |    |
| Additional Responsibility in the university, if any | <div>1. Members, <b>Board of Studies (BOS)</b> Department of Chemistry Dr.Harisingh Gour University Sagar (M.P.)</div> <div>2. Members, <b>School Boardof Studies (BOS)</b> School of Chemical Science and Technology, Dr.Harisingh Gour University, Sagar (M.P.)</div> <div>3. <b>Assistance Proctor</b>, Dr.Harisingh Gour University ,Sagar (M.P.)</div> <div>4. <b>Managing Editor</b> University journal , Madhya Bharti.</div> <div>5. <b>Member sports committee</b> , Dr.Harisingh Gour University, Sagar (M.P.)</div> <div>6. <b>Member University sports board</b>, Dr.Harisingh Gour University, Sagar (M.P.)</div> <div>7. <b>Member of University EXECUTIVE COUNCIL.</b></div> <div>8. Members, <b>Board of Studies (BOS) SWAMI VIVEKANAND</b> University Sagar (M.P.).</div> |        |       |                              |                                                                         |    |                                   |    |          |    |
| Educational Qualifications (UG onwards)             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Degree | Year  | Subject                      | University/Institution                                                  |    |                                   |    |          |    |
|                                                     | 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PhD    | 2001  | Chemistry                    | Deptt. of Chemistry., Dr. H. S. Gour University, Sagar, (M. P.), India  |    |                                   |    |          |    |
|                                                     | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | M.Sc.  | 1996  | Organic Chemistry            | Deptt. of Chemistry., Dr. H. S. Gour University, Sagar, (M. P.), India  |    |                                   |    |          |    |
|                                                     | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | B.Sc.  | 1994  | Chemistry<br>Zoology, Botany | Deptt. of Pharm. Sci., Dr. H. S. Gour University, Sagar, (M. P.), India |    |                                   |    |          |    |
| Research Area/Specialization                        | Synthetic Heterocyclic Chemistry, Medicinal Chemistry, Electrochemistry and QSAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |       |                              |                                                                         |    |                                   |    |          |    |
| Summary of Publications (Number only)               | Research Papers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 51     | Books |                              | Chapter in Books                                                        | 01 | Seminars/ Conferences Proceedings | 60 | Projects | 03 |

### Research Projects (Completed and Ongoing):

| S.No. | Title                                                                                                                                                                         | Funding Agency               | Duration    | Date of Completion | Project Value |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------|--------------------|---------------|
| 1     | "Determination and Investigation of Electrochemical behaviour of Biologically important Indole derivative."                                                                   | University grants Commission | three years | 31 June 2015       | 8,34,000      |
| 2     | Synthesis and characterization of novel series of various substituted 3[( 2-oxo-2H Chromen-3 yl ) amino]-2 aryl-1,3-Thia-3 olidine-4-one and its Anti tuberculosis Activity". | MPCST                        | Two years   | 31 March 2015      | 4,84,000      |
| 3     | " Design , synthesis and 3D-QSAR analysis of some of novel pyrimidine-substituted Indole derivatives : Search for potential Anti tuberculosis agents".                        | SERB-DST                     | Four Years  | 31 Sept 2018       | 14,61,000     |

### PUBLICATIONS :

#### National and International Publications (Details of Research Papers):

| Year (2013 to 2020) | (Name of the author(s), title, name of the journal, vol. no. , page no., Month/year, ISSN and impact factor, if any)                                                                                                                             |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2013                | 1 Ratnesh Das & Gulzar Khan, "Synthesis and Characterization of Some Biologically Active Heterocycles Containing Nitrogen ", , Vol 4, 634-639, 2013. Research Journal of Pharmaceutical, Biological and Chemical Sciences <b>IF LESS THAN 01</b> |
| 2014                | 2 Ratnesh Das* and Shweta Saxena, "Synthesis And Characterization Of Novel Series Of 3(2- Aryl Methylidene Hydrazinyl) - 2h-Chromene-2-One", 3 (2): 595-600, 2014. Journal of Applicable Chemistry <b>IF LESS THAN 01</b>                        |
|                     | 3 Ratnesh Das & Arti Saxena, "Synthesis And Characterization Of Some Biologically Important Isatin Derivatives", 49/3(1)/2014. Journal of Applicable Chemistry <b>IF LESS THAN 01</b>                                                            |
| 2015                | 4 Y. P. Singh & Ratnesh. Das, Computational Approaches in Drug Discovery and Development of Anti Cancer Drug Iressa- Research Journal(Madhya Bharti)                                                                                             |

|      |    |                                                                                                                                                                                                                                                                                             |                                                                |                 |
|------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------|
|      |    | Selenium Complex,59 ,100-109,2015.                                                                                                                                                                                                                                                          |                                                                |                 |
|      | 5  | S. K. Shukla, Ratnesh Das, R. Jain & A. Pandey, The Targeted Delivery of CNS Drug Across the Blood Brain Barrier ; Chemical Modifications of drug or Drug Nanoparticles,59 , 53-61, 2015.                                                                                                   | Research Journal(Madhya Bharti)                                |                 |
|      | 6  | Arti saxena*, Dr. Ratnesh das, shweta saxena , Synthesis, Characterization, Antimicrobial Activity of Some Isatin-3hydrazone Schiff base, (2015), Volume 3, Issue 7, 81-85                                                                                                                  | International Journal of Advanced Research                     | IF LESS THAN 01 |
|      | 7  | Shweta Saxena*, Ratnesh Das and Arti Saxena, SYNTHESIS, CHARACTERIZATION AND ANTITUBERCULOSIS ACTIVITY OF NOVEL SERIES OF 3[2-oxo-2H-chromen-3yl)amino]- 2 aryl 1,3 Thiazolidine-4-one.,(2015), Volume 3, Issue 7, 1094-1103, ISSN                                                          | International Journal of Advanced Research                     | IF LESS THAN 01 |
|      | 8  | Arti saxena,Dr. Ratnesh das, and shweta saxena, Synthesis, Anti TB, Antioxidant, Antimicrobial Activity of some Isatin-3hydrazone derivatives, 2015, 4(14), 729-734,                                                                                                                        | Chem Sci Rev Lett                                              | IF LESS THAN 01 |
|      | 9  | Shweta saxena* Ratnesh das and Arti saxena, Synthesis and Antibacterial Activity of Different Derivatives of 3(2-aryl methylidene hydrazinyl)-2h-chromene-2-one, 2015, 4(14), 688-694                                                                                                       | Chem Sci Rev Lett                                              | IF LESS THAN 01 |
|      | 10 | ARTI SAXENA*, RATNESH DAS and SHWETA SAXENA, Electrochemical Study of Isatin-3-(methylenel)-hydrazone Schiff Base on Carbon Paste Electrode, <i>Chem Sci Trans.</i> , 2015, 4(4), pp 995-1000                                                                                               |                                                                | IF LESS THAN 01 |
| 2016 | 11 | SHWETA SAXENA*, RATNESH DAS and ARTI SAXENA ,Electrochemical Study of Novel 3-(6-Bromo-2-oxo-2H-chromen-3yl-amino)- 2-(3-chloro-phenyl)-thiazolidine-4-one by Cyclic Voltammetry, its DNA Interaction Study by UV-Visible Spectroscopy , J.of Advanced Electrochemistry, 1(1), 2016, 16-18. |                                                                | IF LESS THAN 01 |
|      | 12 | Synthesis and characterization of luminescent indole based Europium complex for selective sensing of ATP. S.Wankar, Ratnesh Das, et.al 35, 2016, 2049-2054                                                                                                                                  | Journal of biomolecular Structure & Dynamics                   | IF 4.98         |
| 2017 | 13 | A facile synthesis of some novel indole derivatives as potential antitubercular agents. G.A.Khan Ratnesh Das, et.al, 11,2017,910-921                                                                                                                                                        | Journal of Taibha University for Science                       | IF 1.64         |
|      | 14 | Fabrication of electrochemical nanosensor based on polyaniline film-coated AgNP-MWCNT-modified GCE and its application for trace analysis of fenitrothion. I.Khan , Ratnesh Das, et.al. 23,2017,1293-1308.                                                                                  | International Journal of Ionics                                | IF 2.28         |
|      | 15 | Absorption, Emission Spectroscopic and Molecular Docking Study of Glutamic Acid with Double-Stranded Calf Thymus DNA, Amit K. Harit, Ratnesh Das , et.al. 9 (19), 2017, 73-78                                                                                                               | Der Pharma Chemica                                             | IF 0.14         |
|      | 16 | Interaction study of Glutamic Acid with double-stranded calf thymus DNA by using Cyclic Voltammetric, Ultraviolet-visible and Fluorescence spectroscopy, Amit K. Harit, Ratnesh Das , et.al. 4 (2), , 2017, 62-73                                                                           | Journal for Foundations and Applications of Physics            | IF 0.43         |
| 2018 | 17 | Porous CuO catalysed green synthesis of some novel 3-alkylated indoles as potent antitubercular agents. Gulzar A. Khan & Ratnesh Das,and others , 22(1), 2018,6-15                                                                                                                          | j. of saudi chemical society                                   | IF 2.45         |
|      | 18 | An Efficient Green Synthesis of Some Functionalized Spiro Chromene Based Scaffolds as Potential Antitubercular Agents GA Khan, Ratnesh Das,et.al, 55 (3), 2018, 699-708,                                                                                                                    | Journal of Heterocyclic Chemistry                              | IF 2.1          |
|      | 19 | Synthesis, Antitubercular activity and DNA-binding study of some 2-Amino-3-cyano-4H-chromen-4-ylphosphonates. G.A. Khan, ratnesh Das & et.al. 10(2),2018,121-130.                                                                                                                           | Der Pharma Chemica                                             | IF 0.14         |
| 2019 | 20 | Recent advances in the synthesis of pharmacologically benign coumarin and indole hetero-structured derivatives:A Review, Ratnesh Das & Anil Bahe , , 10(5) , 2019,1000-1014.                                                                                                                | International Journal of Pharmaceutical Sciences and Research. | IF 0.83         |

**National Seminar/Conference/Workshops (Attended) – 2013 onwards**

|      | <i>Title of the paper presented</i> | <i>Title of the conference/ seminar etc.</i>         | <i>Organised by</i> |
|------|-------------------------------------|------------------------------------------------------|---------------------|
| 2013 | Synthesis.....Anti- tuberculosis    | National seminar on Current trends in pharmaceutical | Sagar inst. Of      |

|      |                                                                                                          |                                                                                                                                  |                                                       |
|------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
|      | compounds.                                                                                               | technology and drug design, 22 sept.2013.                                                                                        | Pharmaceutical science.                               |
| 2014 | Environmental pollution.....its remedies.                                                                | National seminar on Emerging trends in environmental sustainability and biodiversity conservation, 18-19 Jan. 2014               | Pt. S.N.Shukla , P.G.College, Shahdol                 |
| 2014 | Electrochemical.....polyaniline                                                                          | 3 National Conference on Advances in chemical and environmental science, 27-28, Feb, 2014.                                       | Arya P.G.College, Panipat.                            |
| 2014 | Synthesis ..... containing Nitrogen.                                                                     | National conference on , Revisioning pharmacy education and research , contemporary issues and future strategies, 16, March 2014 | Krishna university, Hyderabad.                        |
|      |                                                                                                          | July 2014- June 2015                                                                                                             |                                                       |
| 2014 | Synthesis and .....Indole derivatives.                                                                   | International conference on Progress and advances in human health management and healthcare reforms, 11-12 Oct.2014              | ADINA Ins. Of pharmaceutical sciences. Sagar          |
| 2014 | Teachers role..... System of India.                                                                      | National seminar on , Introspection into semester system in India, 12 Oct. 2014                                                  | Noble college, Sagar                                  |
| 2015 | Indole..... As anti- tuberculosis agents.                                                                | National Seminar on, Emerging frontiers and challenges in nanotechnology and drug design, 01 March 2015                          | Dr.Harisingh Gour Central University, Sagar           |
| 2015 | Electrochemical studies.....Anti TB agents                                                               | National conference on frontiers at the chemistry allied sciences interface, March 13-14, 2015.                                  | University of Rajasthan                               |
| 2015 | Indole derivatives.....Biological importance.                                                            | National seminar on, Recent advances and challenges in biological sciences, 17 March 2015.                                       | Dept. of Zoology, Dr. Harisingh Gour University Sagar |
| 2015 | Determination..... Derivatives.                                                                          | National seminar on, Comprehensive protection conservation and management of environment, 29-30 March 2015.                      | Pt. S.N.S. Govt. college, Shahdol.                    |
|      |                                                                                                          | July 2015- June 2016                                                                                                             |                                                       |
| 2016 | Environment and.....Society.                                                                             | 4 <sup>th</sup> International conference on, Challenges in environmental science and Technology, 27-28 Feb 2016                  | SVN University, Sagar                                 |
| 2016 | QSAR.....T.B. Compounds.                                                                                 | National symposium on, Molecular modeling and drug discovery research, 5 March 2016.                                             | ADINA Inst. Of pharmaceutical sciences, Sagar         |
| 2016 | Synthesis.....Active compounds.                                                                          | National seminar on, Herbal drug scene: New perspective on nano herbal medicine, 20 March 2016.                                  | Bhagyodaya tirth pharmacy college, Sagar.             |
|      | Biological .....DFT Studies                                                                              | Skill development for awareness in STARTUP potential and Make In India in Pharmaceutical science                                 | Sagar institute of Pharmaceutical science, Sagar      |
|      | Vibrational Spectroscopy.....applications                                                                | 6 <sup>th</sup> International conference on perspective in vibrational spectroscopy                                              | University of Lucknow                                 |
|      | Synthesis..... Derivatives                                                                               | The 7 <sup>th</sup> World ayurveda congress                                                                                      | Science city Kolkatta                                 |
|      | DFT..... Derivatives                                                                                     | Emerging trends in Pharmaceutical and health science.                                                                            | SVN University Sagar                                  |
|      | Synthesis and characterization of luminescent indole based europium complex for selective sensing of ATP | "National Conference on Advances in Spectroscopy: Molecules to Materials" (NCASMM-2018)                                          | IITRAM Ahmedabad                                      |
|      | Role ..... Tribal development                                                                            | Role of science and technology interventions for tribal development                                                              | IGNTU Amarkantak                                      |

Invited Lectures delivered (*Outside University*) with title, date and place:

|                                 |                                   |       |  |
|---------------------------------|-----------------------------------|-------|--|
| Year<br>(2013 to 2020)          | Till date 12 invited talks given. |       |  |
| No. of Ph.D. Awarded:           |                                   | 01    |  |
| No. of Ph.D. Scholars working:  |                                   | 06    |  |
| No. of Foreign Visits : Nil     |                                   |       |  |
| Memberships in Academic Bodies: |                                   |       |  |
| • ICC                           |                                   | • ISC |  |
| • CRSI                          |                                   | • ICS |  |