



## BHAGINI NIVEDITA COLLEGE (UNIVERSITY OF DELHI)

Kair, Near Najafgarh, New Delhi - 110043

### Faculty Details proforma for College Web-site

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| Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Dr. | First Name                                                                                                                             | Seema | Last Name | Gupta |  |
| Designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |                                                                                                                                        |       |           |       |                                                                                     |
| Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     | Department of Mathematics<br>Bhagini Nivedita College<br>University of Delhi<br>Kair-110043                                            |       |           |       |                                                                                     |
| Phone No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                                                                                                                                        |       |           |       |                                                                                     |
| Office                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |                                                                                                                                        |       |           |       |                                                                                     |
| Residence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                                                                                                        |       |           |       |                                                                                     |
| Mobile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |                                                                                                                                        |       |           |       |                                                                                     |
| Email                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     | <a href="mailto:Seema.gupta@bn.du.ac.in">Seema.gupta@bn.du.ac.in</a> /<br><a href="mailto:seemadavv@gmail.com">seemadavv@gmail.com</a> |       |           |       |                                                                                     |
| Web-Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                                                                                                                                        |       |           |       |                                                                                     |
| Educational Qualifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                                                                                                                                        |       |           |       |                                                                                     |
| Degree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     | Institution                                                                                                                            |       |           | Year  |                                                                                     |
| Ph.D.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     | Devi Ahilya University, Indore                                                                                                         |       |           | 2022  |                                                                                     |
| M.Tech.(Systems Management)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     | Devi Ahilya University, Indore                                                                                                         |       |           | 2008  |                                                                                     |
| M.Sc.(Mathematics)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | Devi Ahilya University, Indore                                                                                                         |       |           | 2006  |                                                                                     |
| B.Sc. (Computer Science)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | Devi Ahilya University, Indore                                                                                                         |       |           | 2004  |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                                                                                                                                        |       |           |       |                                                                                     |
| Career Profile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                                                                                                                        |       |           |       |                                                                                     |
| <ul style="list-style-type: none"> <li>Assistant Professor (Adhoc) in Mathematics at Bhagini Nivedita College, University of Delhi from September, 2014 till date.</li> <li>Guest Faculty in Mathematics at University of Delhi from January 2014 to May 2014.</li> <li>Assistant Professor in Mathematics at Amity University Sector 125, Noida, U.P. from May 2012 to April 2013.</li> <li>Women Scientist-IPR (WOS-C) at Patent Facilitating Centre (PFC), TIFAC, Department of Science and Technology, New Delhi from May 10, 2010 to May 9, 2011.</li> <li>IPR-on-Job Trainee at Foundation for Innovation and Technology Transfer (FITT), Indian Institute of Technology (IIT), New Delhi from June, 2011 to April, 2012.</li> <li>JRF Professional in DST project "Development of decision support system for sustainable biomass production and carbon sequestration in forests of Malwa region of Madhya Pradesh" at School of Future Studies &amp; Planning (SFSP), Devi Ahilya University (DAVV), Indore M. P. from October 2008 to May 2010</li> </ul> |     |                                                                                                                                        |       |           |       |                                                                                     |
| Administrative Assignments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                                                                                                                                        |       |           |       |                                                                                     |
| As assigned by the college from time to time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                        |       |           |       |                                                                                     |
| Areas of Interest / Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                                                                                                                                        |       |           |       |                                                                                     |



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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Mathematical Programming, Optimization Techniques, Mathematical Software- Lingo, Tora, Mathematica, R, etc., Artificial Intelligence                                                                                                                                                                                                                                                                                                                       |                           |                           |                           |                           |
| <b>Subjects Taught</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |                           |                           |                           |
| 1. Calculus and Matrices<br>2. Calculus and Geometry<br>3. Algebra<br>4. Real Analysis<br>5. Differential Equations<br>6. Numerical Methods<br>7. LATEX and HTML<br>8. Transportation and Network Flow Problems<br>9. Statistical Software R<br>10. Computer Algebra Systems (CAS)<br>11. Analytical Geometry and Theory of Equations<br>12. Linear Algebra<br>13. Probability and Statistics<br>14. Engineering Mathematics<br>15. The Art of Being Happy |                           |                           |                           |                           |
| <b>Time table of the subjects taught during the current semester</b>                                                                                                                                                                                                                                                                                                                                                                                       |                           |                           |                           |                           |
| <b>S.No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Subject</b>            | <b>Days</b>               | <b>Time</b>               | <b>Classroom</b>          |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                           |                           |                           |                           |
| <b>Research Guidance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |                           |                           |                           |
| Project guidance and supervision to B.Sc. Students                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                           |                           |                           |
| <b>Publications Profile</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                           |                           |                           |
| 1. <b>Gupta Seema</b> , "Dynamic DEA Model using Window Analysis Approach with Weight Modeling", <i>Journal of Scientific Research of the Banaras Hindu University</i> , 66(4), ISSN: 0447-9483, 2022, 100-106.                                                                                                                                                                                                                                            |                           |                           |                           |                           |
| 2. <b>Gupta Seema</b> and K. N. Rajeshwari, "Understanding self and cross-efficiencies and their relations in Data Envelopment Analysis", <i>Journal of Scientific Research of the Banaras Hindu University</i> , 65(5), ISSN: 0447-9483, 2021, 313-318.                                                                                                                                                                                                   |                           |                           |                           |                           |
| 3. <b>Gupta Seema</b> and K. N. Rajeshwari " Dual Factor Role in Modeling of Data Envelopment Analysis." <i>Aryabhatta Journal of Mathematics &amp; informatics</i> , ISSN (Print) : 0975-7139, ISSN (Online) : 2394-9309, 2019, Vol. 11(1), 43-52.                                                                                                                                                                                                        |                           |                           |                           |                           |
| 4. <b>Seema Gupta</b> and Chandra Prakash Bhatt, "Analysis of Different Domains of Artificial Intelligence", <i>Engineering and Scientific International Journal(ESIJ)</i> , ISSN: 2394-7187(Online), ISSN: 2394-7197(Print), 2019, Vol. 6(1), 1-5.                                                                                                                                                                                                        |                           |                           |                           |                           |



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5. **Gupta Seema**, K. N. Rajeshwari, and P. C. Jha. "**Finding Efficiency in Data Envelopment Analysis Using Variable Reduction Technique.**" *Quality, IT and Business Operations*. Springer, Print ISBN 978-981-10-5576-8, Online ISBN 978-981-10-5577-5, Singapore, 2018, 155-164.
6. **Seema Gupta**, K. N. Rajeshwari, and P. C. Jha. "**A Goal Programming Approach to Self-Cross Best Evaluation for DEA Problem**", *Analytics in Operations/Supply Chain Management*, ISBN: 9789384588946, I.K. International Publishing House Pvt. Ltd. 2016, 218-232.
7. **Seema Gupta**, K. N. Rajeshwari, and P. C. Jha. "**Fuzzy DEA Cross-Efficiency Model for Ranking and Performance Evaluation Using Ideal and Anti-Ideal Decision Making Units**", *Recent Advances in Mathematics, Statistics and Computer Science*. World Scientific, 2016, ISBN: 978-981-4704-84-7 (ebook), 125-135.
8. **Seema Gupta** and Chandra Prakash Bhatt. "**Evaluating Efficient Sustainable Performance of BRICS and Neighboring Countries using Data Envelopment Analysis**", *BULMIM Journal of Management & Research* (ISSN: 2455-3298), 2016, vol. 1(2), 119-127.
9. Govindan, Kannan, Kiran Garg, **Seema Gupta**, and P. C. Jha. "**Effect of product recovery and sustainability enhancing indicators on the location selection of manufacturing facility**" *Ecological Indicators* (ISSN: 1470-160X), 2016, vol. 67, 517-532.
10. Li, Yongbo, Devika Kannan, Kiran Garg, **Seema Gupta**, Kanika Gandhi, and P. C. Jha. "**Business orientation policy and process analysis evaluation for establishing third party providers of reverse logistics services.**" *Journal of Cleaner Production*(ISSN: 0959-6526) 182 (2018): 1033-1047.
11. Jyoti Dhingra Darbari and **Seema Gupta**, "**Rough Set Theory Approach for Analysing the Global Retail Sales Performance**" *National Conference on Advances in Computer and information Technology 2016 (NCACIT-2016)* ISBN: 978-93-5258-249-5, 2016, 39-44.
12. **Seema Gupta** and Chandra Prakash Bhatt, "**Performance Assessment of 52 Countries Across the Globe in Retail Sector and Ranking Based on TOPSIS**" *Retail Marketing in India Trends and Future Insights*, Emerald Publishing, ISBN: 978-1-7863541-0-5, 2016, 130-143.
13. Uma Nijhawan and **Seema Gupta**, "**Construction Industry to Combat Slowdown in Indian Economy**", *Shodh: A Refereed Research Journal, Social Science & History*, Yr-37, Vol.105, Jan.2020 ISSN: 0970-1745.
14. **Seema Gupta**. "**Technique for order preference by similarity to ideal solution (TOPSIS): method for performance evaluation and selection of supplier in supply chain management**", *PARIPRESYA: A Research journal of New Thoughts (A Quarterly Published Refereed Journal)*, ISSN 2278-0602, 2014, vol. 11, 97-102.

Publications in the Last one year



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| Conference Organization/ Presentations (in the last three years)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"><li>• <b>Presented Poster</b> titled “Ancient Science, Mathematics, and Rasayan Shastra: Interlinkages, Relevance, and Contemporary Significance” in the 7th Bhartiya Vigyan Sammelan(BVS 2025) held from 26-29 December 2025 at National Sanskrit University, Tirupati.</li><li>• <b>Presented Paper</b> titled “Strengthening Innovation for Viksit Bharat: A Historical and Legal Analysis of the Indian Patent System” in One Day National Webinar on Intellectual Property Rights: Various Dimensions organized by Pradhan Mantri College of Excellence BKSJ Govt. College, Shajapur (M.P.) held on 21 November 2025.</li><li>• <b>Presented Paper</b> titled “Artificial Intelligence and the Transformation of Pedagogy in India: Redefining Teaching and Learning in the Age of NEP 2020” in National Webinar on New Teaching Methods &amp; Artificial Intelligence in Perspective of Higher Education organized by Govt. Madhav College, Chanderi(M.P.) held on 12 Nov 2025.</li><li>• <b>Presented Paper</b> titled “Sister Nivedita and Meditation: Democratizing Dhyana for Inner Strength and Social Service” in National conference “Bhagini Nivedita’s Legacy and Viksit Bharat 2047” organized by Research Cell Bhagini Nivedita College, University of Delhi in collaboration with Indraprasth Shakti held on 6 November 2025.</li><li>• <b>Organizing Secretary</b> in National conference titled “Bhagini Nivedita’s Legacy and Viksit Bharat 2047” organized by Research Cell Bhagini Nivedita College, University of Delhi in collaboration with Indraprasth Shakti on held 6 November 2025.</li><li>• <b>Organizing Secretary</b> in International Workshop on “Fuel Your Body, Ignite Your Potential” organized by Department of Physical Education and Sports Sciences, Bhagini Nivedita College, University of Delhi held on 2 August 2023.</li></ul> |
| • Research Projects (Major Grants/Research Collaboration)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"><li>• <b>JRF Professional</b> in DST project “Development of decision support system for sustainable biomass production and carbon sequestration in forests of Malwa region of Madhya Pradesh” at School of Future Studies &amp; Planning (SFSP), <b>Devi Ahilya University (DAVV)</b>, Indore M. P. from October 2008 to May 2010</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Awards and Distinctions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <ul style="list-style-type: none"><li>• <b>Young Scientist Award</b> 2018 Under <b>Mathematical Sciences</b> by Madhya Pradesh Council of Science and Technology</li><li>• <b>Women Scientist-IPR(WOS-C)</b> 2011, Patent Facilitating Centre (PFC), <b>TIFAC, Department of Science and Technology</b></li><li>• <b>CSIR NET JRF(Mathematics)</b> JUNE 2009 qualified with 133<sup>rd</sup> Rank</li><li>• <b>GATE(Mathematics)</b> 2006 qualified with AIR 135<sup>th</sup></li><li>• <b>MPPSC-2012 qualified</b> as <b>Deputy Superintendent of Police(DSP)</b> with 14<sup>th</sup> Rank</li><li>• <b>Attended 45 days MTTS (Mathematics Training and Talent Search) program Level -II</b> held in Pune organized by <b>National Board for Higher Mathematics (NBHM)</b> in May 2005.</li><li>• Secured Third position in the “<b>MEGHNATH SAHA OLYMPIAD</b>” 2003-2004 conducted by</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Department of Physics Government Ideal Autonomous Holkar Science College Indore.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Association With Professional Bodies</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"><li>• Life Member of Vijnana Bharati(Vibha)</li><li>• Member of Indraprastha Shakti</li><li>• Registered patent agent.</li><li>• Registered Trademark Agent</li><li>• Startup Facilitator and Certified Trainer to conduct IP Awareness for National Intellectual Property Awareness Mission(NIPAM) from Office of The Controller General Patents, Designs &amp; Trade Marks, Government of India.</li></ul>                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Other Activities</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"><li>• Nodal officer of “<b>Har Ghar Dhyan</b>” Program of Bhagini Nivedita College.</li><li>• Coordinator of <b>Mathematical Society</b> at Bhagini Nivedita College and organized various events and seminars like mathematical quiz, visit, movie show, dumb-shiraz etc.</li><li>• <b>Active member</b> of Research Cell, Magazine and Annual Report Committee, Admission Committee, Social Media Cell, IQAC, Indian Knowledge System Cell, Entrepreneurship Cell, Cultural Committee, Azadi ka Amrut Mahotsav Committee, Swatch Bharat Committee, Literary &amp; Debating Society, Student Advisory Committee of Bhagini Nivedita College.</li><li>• Practitioner of <b>Heartfulness Meditation</b> System and active volunteer in organizing various events under it.</li></ul> |

**Dr. Seema Gupta**

Signature of Faculty Member