


Title	Dr.	First Name	Seema	Last Name	Gupta	Photograph
Designation	Professor					
Address	Flat No. C9 - 9024, Vasant Kunj, New Delhi. 110-070.					
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Residence Mobile	-					
Mobile	9891664133					
Email	seemag_66@yahoo.com, seemagupta.stat@rila.du.ac.in					
Institutional Web-Page						
Google Scholar	https://scholar.google.com/citations?hl=en&user=BeJZ-uAAAAAJ					
Research Gate	https://www.researchgate.net/profile/Seema-Gupta-16					
ORCID ID	https://orcid.org/0000-0002-4531-2898					
Scopus ID	57753481700					
Researcher ID	rid101147					
Vidwan ID	565398					
Educational Qualifications						
Degree	Institution/Topic					Year
Ph.D.in Statistics	Department of Statistics, Delhi University Contributions to Orthogonal Arrays and Their Applications					2003
M.Phil in Statistics	Department of Statistics ,Delhi University On Some Carrier Borne Communicable and Non-Communicable Epidemic Models					1993
M.A.Statistics	Hindu College, University of Delhi					1989
B.A.(Hons.) Statistics	Lady Shri Ram College for Women, University of Delhi					1987
Career Profile						
Current: Professor (2021)						
Associate Professor (2001-2020)						
Senior Lecturer (1998- 2001)						
Lecturer (1991-1998)						
Visiting Faculty: Department of Statistics & Department of Applied Operations Research, DU. School of Computer and System Sciences, & Mathematical and Computational Empowerment Cell, School of System and Computer Sciences, JNU.						

Administrative Assignments

Current:

- Advisor, Centre for Entrepreneurship and Technology Development (E-cell) & Enactus
- Advisor- Yoga and Meditation Committee
- Sub-Committee Convenor, NAAC Steering Committee
- Nodal Officer for E-Procurement and GEM for the College
- Principal Investigator of Medium Grant **Rs 1,99,99820/-**Project by MOEF&CC and funded by NMHS, GOI titled “Enhancement of Livelihood Opportunities through Sustainable Development using Multifaceted Support Plans for Village Cluster around Patiya in Takula Block, Almora District, Uttarakhand”, (2019-2023)

Previously

- Staff Council Secretary, 2016 to 2018
- Co-Convenor – Students Union Advisory Committee 2018 to 2020
- Convenor – Career Counselling and Placement Cell 2019-2021
- Convenor, Grievance Redressal Committee, 2018-2022
- Teacher-in Charge, Department of Statistics 2019-2020
- Member IQAC - 2017-2021.
- Convenor, Statistics Society, 2018 to 2019
- Member, Discipline Cum Anti Ragging Committee, 2018 to 2019
- Convenor, Yoga & Meditation Committee, 2018 to 2019, 2021-2022
- Member, College Website Committee, 2018 to 2020
- Co-Convenor, Students Union Advisory Committee, 2018 to 2020
- Co-Convenor, Building Cum Infrastructure Committee, 2018 to 2021
- Member, Discipline Cum Anti Ragging Committee, 2019-2020
- Coordinator, Centre for Entrepreneurship and Technology Development (E-cell) (2022-2024)
- Convenor, Enactus (2021-2024)
- Member, Internal Assessment Monitoring Committee (2012-2024)
- Member, Student's Award Committee (2022-2024)
- Presiding Officer, Internals Complaints Committee (2020-2024)
- Sub-Committee Convenor , NAAC Steering Committee
- Bursar (July 2022 to June 2024)

Areas of Interest/Specialization

Design of Experiments and Multidisciplinary work

Subjects Taught

Design of Experiments, Econometrics, Probability Theory, Probability Distributions, Statistical Methods, SPSS, Fortran, Excel

Research Guidance

- One Ph.D. Scholar Ms. Shreya Sharma under Ph.D.Supervision
- Involved in supervision and Guidance of ten students in Innovation Project RLA-201 entitled:

Publications Profile

1. Aggarwal, M. L., &Gupta, S. (2004). A new method of construction of multi-level supersaturated designs. *Journal of statistical planning and inference*, 121(1), 127-134.
2. Aggarwal, M. L., &Gupta, S. (2003). Nested balanced incomplete block designs derivable from simplex codes. *Journal of Discrete Mathematical Sciences and Cryptography*, 6(1), 35-44.
3. Aggarwal, M. L., &Gupta, S. (2006). A new method of construction of (r, λ) designs using codes. *Journal of Combinatorics, and System Sciences*, 31(1-4), 189-198.
4. Budhreja V., &Gupta, S. (2009). On non-isomorphic orthogonal array OA $(35, 20, 3, 3)$. *Metron*, 67(3), 257-267.
5. **Gupta Seema**. (2010). Some new asymmetric orthogonal arrays from lengthened BCH codes, *IAPQR (Indian Association for productivity, Quality and Reliability) Transactions*, 34(2), 123-137.
6. Aggarwal, M. L., Jha, M. K., **Gupta, S.**, & Garland, S. (2010). Construction of some classes of balanced cross-over designs from terraces. *Journal of statistical planning and inference*, 140(10), 2817-2827.
7. Aggarwal, M., **Gupta, S.**, & Jha, M. K. (2015). Construction of Cross-Over Designs for Comparing Test Treatments with Control Using Terraces. *Communications in Statistics-Simulation and Computation*, 44(3), 580-590.
8. **Gupta Seema** (2018). Asymmetric Orthogonal Arrays using Weighing matrices, *EDU World*, 6, 18-28.
9. Mazumder, M.D., &Gupta, S. (2018). Construction of Tight Asymmetric Orthogonal Arrays of strength 2 using Minihypers, *Education Times*, IX(1), 15-20.
10. **Gupta, Seema**, Mazumder, M.D. et. al. (2020). Migration from the Hills and Sustainable Remedial Measures: Case Study of Patiya Village Cluster in Almora District, Uttarakhand, *International Journal of Multidisciplinary Educational Research*, 9, issue 12(3), 171-194.
11. **Gupta Seema** (2021). Empowerment of Women through Mushroom Farming in India, *Modern Thamizh Research- International Multi-Lateral Thamizh Journal*, 21 (4), 1083-1094.
12. **Gupta Seema** (2021). Construction of Nested Partially Balanced Incomplete Block Designs, *International Journal of Agricultural and Statistical Sciences*, 17(2), 453-460.
13. Prabhas, P.K., Rakesh Kumar, **Gupta, S.**, et. al.(2021) "Soil Nutrient Evaluation and Crop Management for Sustainable Growth of Patiya Village Cluster in Almora, Uttarakhand", *Current World Environment* 16(3), 818-835.

14. Pande, P.K., Kumar, R., **Gupta, S.**, Sachdev, R., Mazumder, M.D., Gururani, K., Maurya, U.V., Pant, N.C. (2025), “Sustainable approach towards preservation of Geoheritage and Geodiversity: A case study of Patiya Village cluster in Almora District of Uttarakhand”, Chapter 7, Geoconservation and Geopotential of India, ISBN: 978-3-031-81016-9, Springer Nature (In press)

Projects Undertaken

1. Minor Research Project funded by UGC, titled “ Contributions to Orthogonal Arrays” (2001-2003 – Principal Investigator
2. Innovation Project RLA-201 funded by University of Delhi, entitled: “Seismic Vulnerability Assessment of East Delhi and Mitigation Model based on Fuzzy Logic”,(2013-2014) – Joint Project
3. Medium Grant **Rs 1,99,99820/-**Project by MOEF&CC and funded by NMHS, GOI titled “Enhancement of Livelihood Opportunities through Sustainable Development using Multifaceted Support Plans for Village Cluster around Patiya in Takula Block, Almora District, Uttarakhand”, (2019-2023) – Principal Investigator

Conference Participation/Presentations

1. Participation and abstract in the Pre-ICM ICMS-2008 held at Conference Centre, University of Delhi during December 18-20, 2008.
2. Presented and participated a paper titled “Construction of Nested Partially Balanced Incomplete Block Designs” at the conference titled “International Conference on Interdisciplinary Mathematical and Statistical Techniques IMST 2008/FIM XVI” during May 16-18, 2008, at University of Memphis, **Memphis**, TN 38152.
3. **Chaired a session** at the conference. titled “International Conference on Interdisciplinary Mathematical and Statistical Techniques IMST 2008/FIM XVI” during May 16-18, 2008, at University of Memphis, Memphis, TN 38152.
4. Paper accepted for presentation at the international conference titled “International Conference on Design of Experiments: Theory and applications” organised by University of Memphis, Memphis, 2005, TN 38152.
5. Participated in IISA 2000-2001 INDIA JSM [First joint Statistical Meeting, An international Conference on Recent Developments in Statistics and Probability and Their Applications] during December 30th, 2000 to January 2nd, 2001.
6. Participated in the Pre-ICM ICMS-2008 held at Conference Centre, University of Delhi during January 8-10, 2000.
7. Participated in the 4th National Conference on Science and Geopolitics of Himalaya-Arctic-Antarctic (SAGHAA IV) 2017, during 30th November to 1st December 2017.
8. Participated in the National Meet on History of Mathematical Sciences held at Conference

Centre, University of Delhi, during January 7-9, 2010.

9. Presented paper titled “**Construction of Nested Balanced Incomplete Block Designs from codes**” in 3-week UGC sponsored Refresher Course in Mathematics entitled “Computational Applied Mathematics” from September 27 to October 18, 2006 by CPDHE.
10. Participated and presented a paper in a one day seminar entitled “Recent Advances in Statistical Inference and Related Areas” held on 1st March 2003 sponsored the U.G.C. Special Assistance Scheme (SAP) in Dept. of Statistics. Paper presented was entitled “**Self Complementary Codes and Designs**”.
11. Presented and participated a paper in a one day seminar entitled “Recent Advances in Statistical Inference and Related Areas” held on 16th November, 2002 sponsored by the U.G.C. Special Assistance Programme (SAP) in Department of Statistics. Paper presented was entitled “**Nested Balanced Incomplete Block Design Derivable from Simplex Codes**”.
12. Participated and presented a paper in International Conference on Design of Experiments Recent Trends and Future Directions, December 27th – 30th, 2001(jointly organized by Delhi University and Indian Statistical Institute, New Delhi). Paper presented was “**A New Method of Construction of Multi-level Supersaturated Design**”.
13. Participated in Indian Science Congress 88th session, 3rd - 7th January, 2001 held at Indian Agricultural Research Institute, New Delhi.
14. National Conference on Science and Geopolitics of the Himalaya, Arctic and Antarctic (SaGHAA-5), during 26th February to 27th 2019.
15. Invited Lectures on Statistical Methods, Winter Course in Mathematical Science, Mathematical and Computational Empowerment Cell, JNU from Feb, 2013 to March 2013.
16. Invited Lectures on Statistical Methods, Summer Course in Mathematical Science, Mathematical and Computational Empowerment Cell, JNU from June 20 – July 20, 2013
17. As a resource person gave invited lecture at 20 hours faculty development programme entitled “1st ICT workshop on Microsoft Excel and Power Point” organised by Ram Lal Anand College from 9th October 2017 to 14th October 2017.
18. As a Resource Person gave invited Lecture on ‘Statistical Methods and Graphical representations’ for Certificate Course on “Science Writing & Research Ethics” **from** 13.07.2020 to 7.08.2020 organised by Ram Lal Anand College, University of Delhi.
19. As a Resource Person gave Invited Lecture on Statistical Methods, Graphics, Probability Distributions and Testing of Hypothesis at Faculty Development Programme on ‘**Exploratory Data Analysis using Statistical Software R & SPSS**’ held during 07 Jan 2021 to 13 Jan 2021, organised by Mata Sundry College in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi.
20. As a resource person gave invited lecture on ‘Introduction to Data, Knowledge and Evidence in

Public Policy' for a certificate course in Public Policy on 14th May 2022, organised by Department of History, Ram Lal Anand College, University of Delhi.

21. **Hosted an International Conference** on “Sustainable Geo-tourism to preserve Geo-heritage and Geo-diversity in the Himalayas” on 2-3rd December 2022 in Almora.
22. Presented Project Overview highlighting project objectives and deliverables in quantitative terms on 2nd December 2022, during conference.

Details of Refresher course /Faculty Development Programme

1. Participated in a five day Faculty Development Programme on ICT tools for effective teaching Organized by Ram Lal Anand College from 5th August 2020 to 8th August 2020.
2. Participated in a one week Faculty Development Programme on HADOOP (HORTONWORKS) Conducted by ICT Academy and organized by the Department of Computer Science RLAC from 21st May 21, 2018 to 25th May 2018.
3. Participated in a 3-week UGC sponsored Refresher Course in Mathematics entitled “Computational Applied Mathematics” from September 27 to October 18, 2006 by CPDHE.
4. Participated in “Advanced Lecture Circuit in Design of Experiments” sponsored by Department of Science and Technology (DST) on Saturdays from 3rd June 2000 to 14th April, 2001.
5. Participated in a 3-week Professional Development Programme Refresher Course in statistics (Stat-3) from April 7-28, 1999 by CPDHE.
6. Participated in a 3-week Professional Development Programme entitled “Refresher Course in Women Studies” from April 13 to May 2nd, 1998 by CPDHE.
7. Participated in a 3-week Professional Development Programme Refresher Course in statistics entitled “Statistical Models and Computer Applications” from March 27 to April 17, 1997 by CPDHE.

Webinars Attended

1. Plagiarism Issues, Policies and Detection Tools on 25.06.2020 organised by Institutional Academic Integrity Panel (IAIP) & IQAC With (Inflibnet)
2. Challenges & Advancements in the field spectroradiometry on 07.07.2020 by Sensil International.
3. International Webinar on Mushroom Nature's Gift on 24.07.2020 by Department Of Microbiology, K.R. College of Arts & Science, Kovilpatti
4. Mushroom Cultivation Technique on 18.08.2020 by Horticulture Training Institute Uchani Karnal (Haryana).
5. Webinar on Water Quality in Nagaland and its Related Health Issue on 09.09.2020 by NIT Nagaland with NMHS.

6. Virtual Webinar on Capsicum Cultivation under Protected Structure on 09.10.2020 by Horticulture Training Institute Uchani Karnal (Haryana).
7. Managing the Polar Oceans on 28.09.2020 to 29.09.2020 by SaGHAA, National Centre for Polar & Ocean Research, Norwegian polar institute.
8. Mathematical Modelling in the Context of COVID-19 and The Global Crisis from 12.10.2020 to 14.10.2020 by Department Of Mathematics And IEEE Student Branch.
9. Workshop on "Government e_Marketplace (GeM) from 16.06.2021 to 17.06.2021 by NAHRD.

Courses and Training Programmes Organised in last 5 years

1. Certificate course on python programming titled "Data Science and Programming with Python" from 26th May to 1st June 2018.
3. Certificate Course titled "SQL, Advanced Excel and R Programming" from 9th March to 13th April 2019.
4. Certificate Course titled "Soft Skill Development" from 31st October 2019 to 15th November 2019.
5. Certificate Course titled "Personality Development and Soft Skills" 10th October 2020 till 23rd January 2021.
6. Certificate Course titled "Competition Skill Enhancement Course (CSEC) - CAT" from 2nd January 2021 to 18th April 2021.
7. Certificate Course titled "Competition Skill Enhancement Course (CSEC) – UPSC Prelims General Studies - II" from 2nd January 2021 to 18th April 2021.
8. Certificate Course titled "Competition Skill Enhancement Course (CSEC) – SSC/BANK PO" from 2nd January 2021 to 18th April 2021.
9. Certificate Course titled "Excel and Tableau" from 4th January to 8th February 2021.
10. Certificate Course titles "Python Programming – A multidisciplinary Approach and Machine Learning" from 2nd February 2022 to March 2022.
11. Certificate Course titled "Stocks and Investments" from 18th February to 23rd April 2022

Awards and Distinctions

1. Awarded Qualified Joint CSIR-UGC Test for JRF and Eligibility for Lectureship held in June, 1991 in Statistics
2. Travel Grant for presenting paper in International Conference by UGC in March 2008 for conference from 16.05.2008-18.05.2008 in USA.
3. Deputation to International Conference, INSA in March 2008 for conference from 16.05.2008-18.05.2008 in USA.

Membership of professional bodies

1. Life member of Indian Society for Probability and Statistics (ISPS).
2. Life member of Society of Statistics, Computer and Applications (SSCA)



(Dr. Seema Gupta)
Associate Professor,
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Ram Lal Anand College