



**Shaheed Rajguru College of Applied Sciences for Women
University of Delhi
Faculty Profile**

Name	DR. DEEPA TYAGI	
Designation	Assistant Professor	
Email	deepa.tyagi@rajguru.du.ac.in deepatvagi12@gmail.com	
Degree	Institution	Year
PHD	Banasthali University, Rajasthan	2016
M.Phil	Banasthali University, Rajasthan	2010
M.Sc.	Chaudhary Charan Singh University, Meerut	2009
B.Sc.	Chaudhary Charan Singh University, Meerut	2007
Areas of Interest / Specialization		
Regression Analysis, Econometrics, Time Series Analysis and Demography.		
Administrative/ Academic Roles and Responsibilities		
1. Teacher Coordinator, Department of Statistics 2. Member, Academic Development Committee (ADC) 3. Member, Academic Audit Committee 4. Member, Admission Committee 5. Member, Admission Enabling Committee 6. Member, College Research and Faculty Development Committee 7. Member, Entrepreneurial Club (ED/IIC) 8. Member, Food & Canteen Committee 9. Member, Moderation for Internal Assessment (Departmental) 10. Member, Purchase Committee 11. Member, Spic Macay Committee 12. Member, Student Development & Mentoring Committee 13. Member, Women Development Cell (WDC) 14. Co-Convener, Fine Arts (Elvira) Society		
Subject Taught		
Descriptive Statistics, Sampling Distributions, Linear Models, Testing of Hypothesis, Financial Statistics, Demography, Non-Parametric Methods, Statistical Computing using C/C++ Programming, Statistical Data Analysis using Software Packages, Statistical Data Analysis using R.		

Publications Profile

- 1) **Joshi, H. and Tyagi, D. (2021).** *Forecasting and Modeling Monthly Rainfall in Bengaluru, India: An Application of Time Series Models*. International Journal of Scientific Research in Mathematical and Statistical Sciences (IJSRMSS), Vol.-8(1), 39-46.
- 2) **Chandra, S. and Tyagi, D. (2015).** *Estimation of Error Variance under the LINEX loss function*. International Journal of Mathematical Sciences & Applications, Vol.-5(2), 289-303.
- 3) **Tyagi, D. and Chandra, S. (2014).** *Estimation of the Regression Error Variance in a Misspecified Model*. American Journal of Mathematical Science and Applications, Vol.-2(1), 73 -82.
- 4) **Chandra, S. and Tyagi, D. (2013).** *A Note on the Estimation of Error Variance in the Misspecified Linear Regression Model*. Journal of Rajasthan Statistical Association (JRSA), Vol.-2(2), 86-97.

Books Publication / Chapter in Edited Books

- 1) **Tyagi, D., Chandra, S. and Kumar, S.** “Statistical Data Analysis Using R: A Practical Introduction”. 1st Edition. CRC Press| Taylor & Francis Group. Feb, 2027 (Coming Soon).
- 2) **Tyagi, D. and Chandra, S. (2021).** “*Inadmissibility of Stein-Rule Estimator of Disturbance Variance in a Misspecified Regression Model with Autocorrelated Disturbance Terms*”. Recent Research in Mathematical, Statistical and Computational Sciences. MKSES Publications & Journals, India. ISBN: 978-93-91248-25-3, pg 13-29.
- 3) **Joshi, H. and Tyagi, D. (2021).** “*Estimation of Birth Aversion due to Various Contraception Methods*”. Digital Health in India: Evolution of Health Informatics. MKSES Publications & Journals, India. ISBN: 978-93-91248-12-3, pg 201-216.

Research Paper Presented in International /National Conferences

- 1) Presented a paper entitled *Estimation of Disturbance Variance with Autocorrelated Errors When the Model is Over-fitted* in the **International Conference on Innovative Trends in Statistics, Optimization and Data Science (IC-ITSODS-2024)** organized by Department of Statistics and Operation Research, Kurukshetra University, Kurukshetra, Haryana, INDIA, in conjunction with 44th Annual convention of Indian Society for Probability and Statistics (ISPS) and 8th convention of Indian Association for Reliability and Statistics (IARS), held on December 21-23, 2024.
- 2) Presented a paper entitled *A Note on Estimation of Disturbance Variance in a Misspecified Model* in the **International Conference on Computational Mathematics & Statistics’ (ICCMS-2017)** organized by Banasthali University, Rajasthan jointly with

the Department of Mathematics, University Putra Malaysia, Malaysia, 2017.

- 3) Presented a paper entitled *\Estimation of the Regression Error Variance under the Pitman Nearness Criterion in the Misspecified Model*, in the **International Conference on Role of Statistics in the Advancement of Science** organized by Department of Statistics, Central University of Pune, 2013.
- 4) Presented a paper entitled *\Comparison of the iterative Stein-rule and the usual estimator for the regression error variance under asymmetric loss function*, in the **International Conference on Frontiers of Statistics and its Applications (ICONFROST-2012)** organized by Department of Statistics, Pondicherry University, 2012.

Faculty Development Programme/ Training Programme/Refresher Course

- 1) Completed the 13-days “**NEP 2020 Orientation & Sensitization Programme**” under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC), Organized by Indian Institute of Technology (Indian School of Mines), Dhanbad from 3rd March 2025 to 15th December 2025.
- 2) Completed the 15-days “**NEP 2020 Orientation & Sensitization Programme**” under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC), Organized by Indian Institute of Technology (Indian School of Mines), Dhanbad from 2nd December 2024 to 14th December 2024.
- 3) Completed the 10-days **Interdisciplinary Refresher Course** on “*Research, Writing, and Analysis*”, held from 11th November 2024 to 22nd November 2024, organized by UGC-MMTTC, Indian Institute of Technology (ISM) Dhanbad as per UGC-MMTTC rules and regulation.
- 4) Completed a **One-Week Online Training** on “Tools and Techniques in Research Methodology (TTRM-2021)” held on Jan 12-18, 2021, organized by Science Tech Institute, Lucknow, Uttar Pradesh.
- 5) Attended a **One-Week Faculty Development Programme (FDP)** on “E-Learning and Developing Moocs for Teaching Process in higher Education” Organized by Department of Statistics and Internal Quality Assurance Cell (IQAC), Hindu College, University of Delhi in collaboration with Teaching Learning Centre Ramanujan College, University of Delhi, under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD held on Dec. 14-20, 2020, New Delhi.
- 6) Attended the **Faculty Development Programme (FDP)** on the topic “*Role of LaTeX in Scientific Writing*” held on June 19-21, 2020, organized by Department of Mathematics, Babu Banarasi Das Northern India Institute of Technology, Lucknow.

Extra-Curricular Activities and Achievements

- 1) Contributed to **conducting a one-month training** on “*Python and Its Applications*” held on September 9 – October 12, 2019, organized by Department of Statistics, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi jointly with CETPA INFOTECH PVT. LTD.
- 2) Contributed as **Rapporteur** in a Poster Presentation in 15-th SSCA National Conference on “*Advanced Development and Application in Statistical Sciences*”, held on Feb. 24-26, 2013, organized by AIM & ACT - Banasthali Vidyapith, Rajasthan.

International/National Conference

- 1) Attended the **International Conference** on “*Innovative Trends in Statistics, Optimization and Data Science (IC-ITSODS-2024)*” organized by Department of Statistics and Operation Research, Kurukshetra University, Kurukshetra, Haryana, INDIA, in conjunction with 44th Annual convention of Indian Society for Probability and Statistics (ISPS) and 8th convention of Indian Association for Reliability and Statistics (IARS), held on December 21-23, 2024.
- 2) Attended the **International Conference** on “*Statistics, Data Science and Reliability: Exploring Trends, Methods & Applications (IC-SDSRETMA-2023)*” in Conjunction with 7th Convention of Indian Association for Reliability and Statistics (IARS) organized by the Department of Statistics, M.D. University, Rohtak during December 24-26, 2023.
- 3) Attended the **International Conference** on “*Computational Mathematics & Statistics’ (ICCMS-2017)*” held on January 24-26, 2017, organized by Banasthali University, Rajasthan jointly with the Department of Mathematics, University Putra Malaysia, Malaysia.
- 4) Attended the **15-th SSCA National Conference** on “*Advanced Development and Application in Statistical Sciences*”, held on Feb. 24-26, 2013, organized by AIM & ACT - Banasthali Vidyapith, Rajasthan.
- 5) Attended the **International Conference** on “*Role of Statistics in the Advancement of Science & Technology*” held on Dec. 16-18, 2013, organized by University of Pune.
- 6) Attended the **ISPS International Conference** on “*Frontiers of Statistics and its Applications*” held on Dec. 21-23, 2012, organized by Pondicherry University.

National Workshop

- 1) Attended a one Week “**Online Workshop** on *Statistical Data Analysis using SPSS & R (SDAR) 5th Edition*”, held from March 11-15, 2024, organized by the Department of Statistics, Central University of Haryana, Mahendergarh, Haryana.
- 2) Attended a “**National Workshop** on *Statistical Computational Techniques Using Python, R & SPSS*”, held on July 18-20, 2020, organized by the School of Studies in Statistics, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh.
- 3) Attended a one day “**Workshop** on *Train the Trainers*” held on Feb 10, 2020, organized by the Department of Biochemistry in association with Students for Holistic Development of Humanity (SHoDH).
- 4) Attended a “**Workshop** on *Statistical Analysis for Engineers and Researchers (SAFER-2019)*” held on May. 31- June 04, 2019, organized by Indian Institute of Technology Kanpur (IIT Kanpur).

- 5) Attended a **Workshop** on “*Sensitization Workshop on Technological Empowerment of Women*” held on March 14-15, 2016, organized by The National Academy of Sciences, India (NASI) jointly with Banasthali Vidyapith, Rajasthan.
- 6) Attended a **Workshop** on “*R-software*” held on Jan. 19-20, 2015, organized by Department of Mathematics and Statistics, Banasthali Vidyapith, Rajasthan.
- 7) Attended **National Workshop** on “*Research Methodology*” held on Oct. 19- 21, 2012, organized by University of Rajasthan, Jaipur sponsored by Indian Council of Social Sciences Research (ICSSR), New Delhi.
- 8) Attended **National Workshop** on “*Block Designs and their Applications*” held on Feb. 05-08, 2011, organized by Banasthali University sponsored by DST, Govt. of India, New Delhi.
- 9) Attended **Workshop** on “*LaTeX and Other Open-Source Software*” held on March 27-29, 2010, organized by Banasthali University sponsored by DST, Govt. of India, New Delhi.
- 10) Attended **National Workshop** on “*Mathematical Modeling*” held on Dec. 15-19, 2009 organized by Center for Mathematical Science (CMS, in Banasthali University) sponsored by DST, Govt. of India, New Delhi.

Seminar /Webinar

- 1) Attended an **Online Session** on, “A Series of Dialogue (Part-9)” with women conservationist involved in this project. An initiative under ‘ICSSR project: *Ecological Feminism of Indian Women, a Comprehensive Study on Indigenous Practices for Sustainable Development*” held on Oct 4, 2021, organized by Shaheed Rajguru College of Applied Sciences for Women, University of Delhi.
- 2) Attended an **Online Session** on, “A Series of Dialogue(Part-7)” with women conservationist ‘Ms. Priyam Guha ‘LIVE from Ladakh, an in initiative under ‘ICSSR project: *Ecological Feminism of Indian Women, a Comprehensive Study on Indigenous Practices for Sustainable Development*” held on Sept 17, 2021, organized by Shaheed Rajguru College of Applied Sciences for Women, University of Delhi.
- 3) Attended a “**National Webinar** on *Teacher’s e-Kit: A Four Quadrants Approach for Development of OERs for Higher Education*”, held on Sept 09, 2021, organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD, New Delhi.
- 4) Attended an **Online Session** on Series with Women Environmental conservationist Vibha Guha, an initiative under ‘ICSSR project: *Ecological Feminism of Indian Women, a Comprehensive Study on Indigenous Practices for Sustainable Development*” held on Sept 3, 2021, organized by Shaheed Rajguru College of Applied Sciences for Women, University of Delhi.
- 5) Attended a “**National Webinar** on *Role of Statistics in Sustainable Agriculture Development*”, organized by the department of Mathematics & Statistics, Banasthali Vidyapith, Rajasthan held on August 21, 2021.
- 6) Attended a “**National Webinar** on कोविड-19 : आंकड़ों का राजनीतिक एवं सांख्यिकीय आकलन”, held on July 24, 2020, organized by Rajasthan Statistical Association, Department of Statistics and Department of Lifelong Learning, University of Rajasthan, Jaipur.

- 7) Attended a “**National Webinar** on *Putting the Brakes on Covid-19: How to Safeguard the Health and Rights of Women and Girls Now*”, organized by the Faculty of Mathematics and Computing, Banasthali Vidyapith on the occasion of “World Population Day, July 11, 2020.
- 8) Attended a “**Webinar Series (Basic)** on *Transforming Teaching Learning Process using ICT Tools*” held on July 23-25, 2020, organized by IQAC, PGDAV College, University of Delhi.
- 9) Attended a “**National Seminar** on *How to Conduct Online Teaching Learning in COVID-19 Times?*”, held on July 22, 2020, organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT) of MHRD, New Delhi.
- 10) Attended a “**National Webinar** on *Role of Statistics in COVID-19*”, held on July 17, 2020, organized by Department of Statistics and IQAC, Balwant College, Vita, Dist.-Sangili, Kolhapur.
- 11) Attended a “**National Webinar** on *Putting the Brakes on Covid-19: How to Safeguard the Health and Rights of Women and Girls Now*”, organized by the Faculty of Mathematics and Computing, Banasthali Vidyapith on the occasion of “World Population Day, July 11, 2020.
- 12) Attended **Seminar** on “*Time Series Modeling*” held on Oct. 03-06, 2009, organized by Banasthali University sponsored by Department of Science and Technology (DST), Govt. of India, New Delhi.

Invited Speaker

- 1) Delivered an **Invited Talk as a speaker** on “***Correlation and Regression Analysis & Hands on R***” in a ‘Training Course on Statistical Data Analysis Using R Software for Health Professionals’ organized by Department of Statistics and Demography, National Institute of Health and Family Welfare (NIHFW), New Delhi, held on November 25-27, 2024.
- 2) Delivered an **Invited Talk as a speaker** in a workshop on “***Financial Database & Analysis Software***” organized by the Department of Financial Studies, Shaheed Rajguru College of Applied Sciences for women held during April- May, 2024.

Membership

- 1) A Reviewer Panel Member (life-time memberships) of International Journal of Multidisciplinary Research Confluence (IJOMRC) from 26 Sept, 2020.

Awards and Distinctions

- 1) “National Education Excellence Award” in 2021 by International Multidisciplinary Research Foundation (IMRF) at Institute of Higher Education and Research, Vijayawada, Andhra Pradesh, India
- 2) Secured distinction in M.Phil., Banasthali University, Rajasthan.