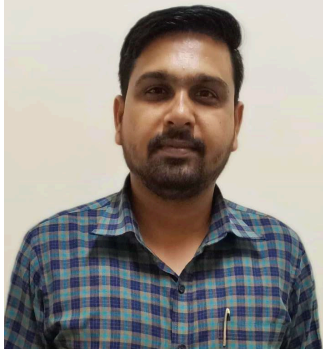




Shaheed Rajguru College of Applied Sciences for Women
University of Delhi
Faculty Profile

Name	Dr. SANTOSH BABU	
Designation	Assistant Professor	
Email	santosh.yadav@rajguru.du.ac.in santosh.yadav0506@gmail.com	
Degree	Institution	Year
CSIR-NET with JRF	CSIR	2018
GATE	IITD	2015
Ph.D	University of Delhi, Delhi	2024
M.Phil	University of Delhi, Delhi	2018
M.Stat	Dr. Bhimrao Ambedkar University Agra, (UP)	2011
B.Sc	Dr. Bhimrao Ambedkar University Agra, (UP)	2009
Areas of Interest / Specialization		
Space-filling Designs for Computer Experiments, Optimal Designs for order of Addition (OofA) Experiments, Mappable Nearly Orthogonal Arrays, Design with Uniformity and Stratification in lower Dimensional Area.		
Teaching Interest		
Statistics Papers: Design of Experiments, Statistical Inference, Theory of Estimation, Probability Theory, Probability Distribution Theory, Stochastic Process, Linear Model, GLM. Mathematics Papers: Linear Algebra and Matrix Theory, Mathematical Analysis, Numerical Methods, Ordinary and Partial Differential Equations.		

Research Papers Publications

1. Singh, P., Mazumdar, M. D., & **Babu, S.** (2023). Construction of Nearly Orthogonal Arrays Mappable into Fully Orthogonal Arrays of Strength Two and Three. *International Journal of Mathematics and Statistics*, **24**, 37-50.
2. Singh, P., Mazumdar, M. D., & **Babu, S.** (2023). Mappable Nearly Orthogonal Arrays Using Projective Geometry. *Turkish Journal of computer and Mathematics Education*, **14(3)**, 454-464.
3. Singh, P., Mazumdar, M. D., & **Babu, S.** (2023). Construction of Nearly Orthogonal Arrays Mappable to tight Orthogonal Arrays of Strength Two. *Statistics and Applications*, **22(2)**, 307-322.
4. Singh, P., Mazumdar, M. D., & **Babu, S.** (2023). Nearly Orthogonal Arrays Mappable into symmetric Orthogonal Arrays of Strength Two. *International Journal of Statistics and Reliability Engineering*, **10(2)**, 431-437.
5. Singh, P., Mazumdar, M. D., & **Babu, S.** (2023). On the Construction of Mappable Nearly Orthogonal Arrays into Fully Orthogonal Arrays Using BIBD. *J. Xia. Uni*, **17(8)**, 621-637.
6. Singh TP, Thakur A, Jain S, Dhakar JS, Shiva, **S. Babu**, A, Bhadauriya (2024). Assessment of Diabetes Literacy among College Students: Insights from a Cross- Sectional Study. *SSR Inst Int J Life Sci.*, **10(6)**: 6539-6546.
7. Soni P, Jain S, Dhakar JS, Chanchal V, **Babu, S.** (2026). Examining sleep behavior and its association with academic performance among college students. *Int J Community Med Public Health*. **13**, 5252-5258.
8. Jain S, Dhakar J.S, Chanchal V, **Babu, S.**, Dhakar D. A. (2026). comparative analysis of health indicators in India and Madhya Pradesh using NFHS- 4 and NFHS-5 data. *Int J Community Med Public Health*. **13**, 5111-5116.
9. **Santosh Babu** & Tannu (2026). Evaluating the Effect of Study Habits on Academic Performance of Undergraduate Students using Latin Square Design. *International Journal of Mathematics, Statistics and Operations Research*. **6(1)**, 211-228.

Book Chapters Publications

1. Singh, P., Mazumder, M. D., & **Babu, S.** (2024). On Mappable Nearly Orthogonal Arrays Using Projective Geometry: A Mathematical Approach. *Mathematics and Computer Science-Contemporary Developments Vol. 1*, 52-67.

Research Paper Presentation (International & National Conferences)

1. Attended and presented a research paper entitled as “Construction of Mappable Nearly Orthogonal Arrays”. International conference on advanced statistical and computational techniques for sustainable development (ASCTSD-2025) during January 16-18, 2025 at Department of Statistics, University of Rajasthan, Jaipur.
2. Attended and presented a research paper entitled as “mappable nearly orthogonal arrays using Hadamard matrix”,
3. Attended and presented a research paper entitled as “Construction of symmetric orthogonal arrays of strength two using cyclic groups” An International conference on Recent Application of Statistical Technique and Analysis, 15 -17 Feb 2021 organized by Department of Statistics, BHU, India 221005.
4. Attended and presented a research paper entitled as “Construction of Nearly orthogonal arrays mappable into fully orthogonal arrays of strength two and Three, Eight International Conference on Statistics for twenty-first century – 2022, organized by School of physical and mathematical sciences and department of Statistics, University of Kerala, 16-19 December 2022.
5. Attended and presented a research paper entitled as “A New Series of Nearly Orthogonal Array mappable into fully tight orthogonal array of strength two” an international conference on advanced Statistical and computational techniques for sustainable development organized by Department of Statistics, University of Jammu, Jammu (India), February 15-17-(2023).
6. Attended and presented a research paper entitled as “Nearly Orthogonal arrays mappable into fully symmetric orthogonal arrays of strength two, an international conference on recent trends in statistics and data Analysis organized by Kerala Statistical Association (KSA), March 31 to April 1, 2023.
7. Attended and presented a research paper entitled as “On the construction of Mappable Nearly Orthogonal Arrays Using BIBD”, an international conference on Advanced Data Analytics and Statistics, organized by Department of Statistics, Vimala College Thrissur in Association with (KSA), January 23-25, 2025.
8. Attended and presented a research paper entitled as “Mappable Nearly Orthogonal Arrays Using Hadamard matrix”, an international conference on Recent Trends in Mathematics, Organized by Department of Mathematics Hansraj College, University of Delhi, Delhi from February 7-8, 2025.
9. Chaired a session at the 1st international conference on integrating sciences

and social sciences on the theme “ Bridging Scientific Innovation and social Transformation for a sustainable future”, held on 21 April 2026.

Awards and Distinctions

Awarded Junior Research Fellowship (JRF) By CSIR.

Awarded M.Phil. (Statistics) in 2018 with distinction from University Delhi, Delhi 110007.