

Curriculum Vitae

Shruti Shukla

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Career Objective

To obtain a responsible academic/teaching position that utilizes my subject knowledge and research skills, while providing opportunities to enrich my expertise and contribute to the growth of the institution.

Teaching Experience

- Guest Lecturer (Assistant Professor), G.N.A.P.G Govt. College, Balodabazar–Bhattapara (C.G.) — Session 2017–2025
- Guest Lecturer (Assistant Professor), Brijlal Verma Govt. College, Balodabazar–Pallari (C.G.) — Session 2016–2017

Research Profile

- Research Scholar in Mathematics
- Publications: 3 research papers published in peer-reviewed journals
- Under Review: 2 research papers communicated
- Peer Reviewer (Web of Science): Reviewed 2 manuscripts for indexed journals

Peer-Review Contributions (Web of Science)

1. Nonparametric Estimation of Laplace Transform of the Ruin Probability from Empirical Data Using Symmetric Kernels – Asian Journal of Probability and Statistics (Sep 4, 2025).
2. Response Surface Methodology for Process Monitoring of Soft Drinks: A Case of Delta Beverages in Zimbabwe – Mathematics and Computer Science: Research Updates (Aug 23, 2025).

Publications

3. Saw, H.K., Tiwari, R., & Shukla, S. (2024). Profit analysis of a two-unit similar cold standby system with endurance time and preventive maintenance. *International Journal of Statistics and Applied Mathematics*, 9(4), 16–21.
4. Saw, H.K., Tiwari, R., & Shukla, S. (2025). The stochastic reliability modeling of a centrifugal pump of a rectifier cooling system of DC-Rectifier with a standby unit and preventive maintenance. *Indian Journal of Science and Technology*, 18(26), 2075–2087.

- R.T, H.K., & Shukla, S. (2024). Stochastic modeling and analysis of a repairable single unit system. International Journal of Engineering and Computer Science, 13(01), 25991-26000.

Conferences & Presentations

- Presented paper on “Reliability and Profit Analysis of an Industrial System using a Markov Model” at the International Conference on Mathematics and Statistics in the Era of Data Science (ICM-SDS-2025), Central University of Jharkhand, Ranchi (2025).
- Presented paper on “Reliability and Profit Analysis of a Data Center with Different Failure Types” at the International Conference on Pure and Applied Mathematics, Berhampur University, Odisha, India (13–14 February 2025).

Academic Qualifications

Degree	University/Board	Subjects	Year	%
M.Sc. (Mathematics)	Pt. Ravishankar University	Mathematics	2016	76%
B.Sc. (Maths, Physics, Chemistry)	Pt. Ravishankar University	Science	2014	56%
12th	C.G. Board, Raipur	Mathematics	2011	63%
10th	C.G. Board, Raipur	All	2009	80%

Skills

- Technical Skills: Core Java, C Programming, Microsoft Office Suite (Word, PowerPoint, Excel)
- Soft Skills: Communication, teamwork, adaptability, quick learning, honesty, positive attitude
- Hobbies: Teaching skills, reading, learning mathematical tricks

Achievements & Awards

- Secured 9th position in Pt. Ravishankar University Merit List (2016).
- President, Mathematics Association (College).
- Class Representative (College).
- Certified in Core Java programming (2013).
- Active participation in drawing, painting, slogan writing, and cultural events.
- NCC “A” Certificate holder (2008); attended annual training camp with 08 CG Girls Battalion NCC, Raipur.
- Sports achievements: Volleyball (school & college level), Kho-Kho (school level).

- Certificates from Rotary Club, Prajapita Brahmakumaris, Red Cross Society for participation & training.

Workshops & Seminars

- Participated in National Workshop on General Relativity & Cosmology (UGC Sponsored), Kalyan P.G. College, Bhilai Nagar (Feb 8–9, 2016).

Projects (M.Sc. Mathematics)

Project I: Embedding and Metrization in Topology

- Focus: Compactness, embedding, metrizability, and paracompactness in topological spaces.

- Contribution: Prepared and delivered PowerPoint presentation.

Project II: Robertson-Walker Metric in General Relativity and Cosmology

- Focus: Cosmological models, universe expansion, Weyl's postulate, and R-W metric applications in Einstein's field equations.

- Contribution: Designed PowerPoint presentation.

Personal Profile

Father's Name: R.K. Shukla

Date of Birth: 15 February 1993

Gender: Female

Nationality: Indian

Languages: Hindi, English

Declaration

I hereby declare that the above information is true and correct to the best of my knowledge and belief.

(Shruti Shukla)