

## Curriculum Vitae

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# Dr. Sampada Tiwari

### Career Objective

Facilitating students with the ability to gain intellectual and practical knowledge; providing essential academic, creative, mental and emotional support to enable students to realize their potential and improve learning ability as well as performance report.

### Summary of Skill

- Abilities in handling multiple priorities with a bias for action & a genuine interest in professional development.
- Good command over written and verbal communication.

### Scholastics

**Awarded Ph.D. in “Study and Construction of Cryptographic Boolean Functions and their Generalizations”** from **NIT, Raipur** in April 2024.

**M.Sc.(Mathematics)** from “**Guru Ghasidas Vishwavidyalaya, Bilaspur**” in 2013-2014 with an aggregate of 71.75%.

**B.Sc. (Computer Science)** from “Guru Ghasidas Vishwavidyalaya” Bilaspur in 2011-2012 with an aggregate of 60.5% .

**12<sup>th</sup> State Board** : 66.2% session 2008 – 2009.

**10<sup>th</sup> State Board** : 62.67% session 2006 – 2007.

### Experience

- Guest Lecturer in Pt. Ravishankar Shukla University, Raipur (October 2024-till date).
- Having 5 years and 6 months experience in Dr. C. V. Raman University, Kargi road, Kota, Bilaspur as an Assistant Professor (April 2016 – October 2021).

### Conference / Workshop / STTP / FDP

- Participated in “Author Workshop” jointly organized by Springer & Guru Ghasidas Vishwavidyalaya at Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) on Dec’14.
- Presented a paper entitled “ $\varphi - \psi$  Contraction Condition for Different Maps in Complete Metric Spaces” in the National Conference on “Challenges in Mathematics for the Development of Science and Technology” at Bhilai Institute of Technology, Durg (C.G.) on Mar’17.
- Participated in the National Seminar on “Recent Trends & Development in Mathematics” at Dr. C.V. Raman University, Kargi Road, Kota, Bilaspur (C.G.) on Sep’17.
- Participated in the National Workshop on “Trends in Research, Ethical Issues & Use of Anti-Plagiarism for Research Integrity” jointly organized by Dr. C.V. Raman University and Govt. Bilasa Girls P.G. (Autonomous) College at Govt. Bilasa Girls P.G. (Autonomous) College, Bilaspur (C.G.) on Feb’19.

- Presented a paper entitled "On Higher Order Nonlinearity of Monomial Boolean Functions" in an International Conference on "Mathematical Modelling, Applied Analysis and Computation-2019" at JECRC University, Jaipur (Rajasthan) on Aug'19.
- Participated in an International Conference (online) on "Recent Trends in Mathematics and Its Applications to Graphs, Networks and Petri Nets-2020", at School of Computational and Integrative Sciences, Jawaharlal Nehru University, New Delhi, India.
- Participated in a National Webinar on "The Impact of COVID-19 Pandemic on Rural Students in Higher Education", organized by Jaywanti Haskar Government PG College, Betul, India.
- Participated in a National Webinar on "Life and Works of Srinivasa Ramanujan", organized by Bastar Vishwavidyalaya, Jagdalpur, India.
- Participated in a Workshop on "MATLAB", organized by the Department of Science and Humanities of Hindustan College of Engineering and Technology, Coimbatore, India.
- Participated in a Short Term Training Program (STTP) on "Applications of Mathematical Sciences" organized by K.D.K. College of Engineering, Nagpur, India.
- Participated in a Faculty Development Program (FDP) on "Applications of Optimization Techniques in Science and Engineering Research", at B K Birla Institute of Engineering and Technology, Pilani(Rajasthan) , India on Aug'2020.
- Participated in a Faculty Development Program (FDP) on "Applications of Mathematics in Engineering", organized by KPR Institute of Engineering and Technology, Coimbatore, India on Aug'2020.
- Presented a paper entitled "Secondary Construction of Octonary Bent and Negabent Functions" in an International Conference on "Fundamental and Applied Sciences (ICFAS 2021)" organized by Faculty of Science and I.Q.A.C.,Mumbai, India.
- Presented a paper entitled "Generalized Bent-Negabent Boolean Functions" in an International Virtual Conference on "Recent Trends and Techniques in Mathematical and Computer Science" jointly organized by Government Degree College Darhal, Jammu and Kashmir, Cape Comorin Trust, Lavender Literary Club, India.
- Participated in the Second International Workshop on "Advanced Topics in Mathematics-2021", organized by the Centre for Applied Mathematics, International Institute of Information Technology, Naya Raipur, India.
- Presented a paper entitled "A Study on Generalized Bent Functions" in an International Conference on "Disciplinary, Interdisciplinary and Multidisciplinary Research (IVC-DIMR 2021)" jointly organized by Research India Foundation and Chaitanya (Deemed to be University), Hanamkonda, Telangana, India.

### List of Publications

- Sampada Tiwari and Deepmala Sharma, On higher order nonlinearity of monomial Boolean function. International Conference on Mathematical Modelling, Applied Analysis and Computation-2019, organized by Department of Mathematics, Faculty of Science, JECRC University, Jaipur, (2019).
- Sampada Tiwari and Deepmala Sharma, Generalized bent-negabent Boolean functions. International Virtual Conference on Recent Trends and Techniques in Mathematical and Computer Science, 28-29 July 2021, Jointly Organized by Government Degree College Darhal, Jammu and Kashmir, India, Cape Comorin Trust, India, Lavender Literary Club and Cape Comorin Publisher, Tamil Nadu, India, 193-199 (2021).
- Sampada Tiwari and Deepmala Sharma, Secondary construction of octonary bent and negabent Functions. High Technology Letters 27(6), 689-696 (2021).
- Deepmala Sharma and Sampada Tiwari, On generalized bent and negabent functions. Mathematics and Statistics 10(3), 542-548 (2022).
- Sampada Tiwari and Deepmala Sharma, On higher order nonlinearities of Boolean functions. Cryptography and Communications 15, 821-830 (2023).

### Personal Details

Sex : Female  
 Marital Status : Married  
 Date of Birth : 15/02/1992  
 Languages Known : Hindi, English

## Contact Details

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## Beyond Curriculum

- Reading book, Listening Music

## Strength

- Sincere, Hardworking, Honest & Reliable.
- Enthusiastic & Cooperative.
- Change easily according to situation.
- Positive Attitude.
- Work with a Passion.