Dr. Latika Tamrakar

M.Sc. (IT), MCA, MBA, MPhil (CS), PhD

UGC NET, CGSET

Assistant Professor

Department of Information Technology,

Govt. V.Y.T. PG Autonomous College,

Durg, Chhattisgarh, India

Contact: +91-7000106772

Email: latika.tamrakar@gmail.com

PROFESSIONAL EXPERIENCE:

- **Assistant Professor,** Govt. V.Y.T. PG Autonomous College, Durg, from 07 December 2020 to present.
- **Assistant Professor,** Govt. Kaktiya PG College, Jagdalpur, from 25 September 2017 to 5 December 2020, first joining through CGPSC.
- **Guest Lecturer**, Govt. V Y T P.G. Auto College, Durg from July 2016 to August 2017
- **Assistant Professor**, Kalyan PG College, Bhilai from July 2013 to May 2015
- **Lecturer,** NIT, Raipur from Oct 2007 to March 2008
- **Assistant Professor**, Kalyan PG College, Bhilai from Aug 2004 to July 2006

ACADEMIC QUALIFICATIONS

- **PhD (**Computer Application) from Chhattisgarh Swami Vivekanand Technical University (CSVTU), Bhilai on the topic "STUDENTS SENTIMENT ANALYSIS FOR ASSESSMENT OF WEB BASED LEARNING"
- **M.Phil.** (Computer Science), Dr. C V Raman University, Bilaspur (C.G.), 2014.
- **Master of Business Administration (**HR, Marketing), Bhilai Institute of Technology , Durg, 2011.
- **Master of Computer Application,** CCIT, 2007
- **Master of Science** (Information Technology), CCIT, 2004
- **B.Sc.** (Computer Science)**,** Bhilai Mahila Mahavidyalaya, Bhilai (C.G.), 2000.

PUBLICATIONS

1. P. Verma, **L. Tamrakar** and S. K. Sahu, "Machine Learning Methods for Network Security Optimization: Exploring the Power of Decision Tree Algorithms," *2025 4th OPJU International Technology Conference (OTCON) on Smart Computing for Innovation and Advancement in Industry 5.0*, Raigarh, India, 2025, pp. 1-6, Doi: 10.1109/OTCON65728.2025.11070613.

2. **L Tamrakar**, S. Tamrakar, and V. Thakur, "MULTIDISCIPLINARY EDUCATION: NEW PARADIGMS UNDER NEP 2020", *ShodhKosh J. Vis. Per. Arts*, vol. 5, no. 2, pp. 496–500, Jul. 2024.
   https://doi.org/10.29121/shodhkosh.v5.i2.2024.2221

3. **Tamrakar, L**., Tamrakar, S., & Thakur, V. (2023). TRANSFORMATIVE IMPACT OF THE DIGITAL AGE ON YOUTH MENTAL HEALTH: NAVIGATING CHALLENGES AND EMBRACING SOLUTIONS. *ShodhKosh: Journal of Visual and Performing Arts*, *4*(2), 1150–1153. https://doi.org/10.29121/shodhkosh.v4.i2.2023.2222

4. **Latika Tamrakar**, Samiksha Tamrakar, & Varsha Thakur. (2023). The Impact of Digital India on National Empowerment and Socioeconomic Transformation. *Journal of Computational Analysis and Applications (JoCAAA)*, *31*(3), 468–473. Retrieved from https://eudoxuspress.com/index.php/pub/article/view/1403

5. **Tamrakar, L.,** & Thakur, V. (2023). Edge computing: Enhancing performance and security in IoT networks. *TPJ*, 1(4).

6. **Tamrakar, L.,** & Thakur, V. (2023). The future of quantum computing in cybersecurity. *TPJ*, 1(3), 17–21.

7. **L Tamrakar** (2023) "Recent Trends in Computer Technology: AI, Cloud Computing, Quantum Computing, and Cybersecurity" TPJ (2), 25-29.

8. Kushwaha, S., Thakur, V., & **Tamrakar, L.** (2022). Effect of Covid-19 and Role of AI Approaches in the Context of India. Journal of Pharmaceutical Negative Results, 1990-1999. https://doi.org/10.47750/pnr.2022.13.S01.234

9. **Tamrakar, L.,** Shrivastava, P., & Ghosh, S. M. (2021). An Analytical Study Of Feature Extraction Techniques For Student Sentiment Analysis. Turkish Journal of Computer and Mathematics Education, 12(11), 2900-2908.

10. **Tamrakar, L.,** Rungta, S., & Ghosh, S. M. (2021) Feature Selection Techniques Of Machine Learning for Web based learning & Student Opinion: A Survey. Flusser Studies (1661-5719), Volume-30.

11. **Tamrakar L.,** Rungta, S., Ghosh, S. M., & Thakur, V. (2021). Machine Learning Based Optimization of Students' Sentiment Analysis for Assessment of Web Based Learning Management System. Vol. 6

12. **Latika Tamrakar**, S.M. Ghosh "Identification of Frequent Navigation Pattern Using Web Usage Mining" International Journal IJARCST, International Journal of Advanced Research in Computer Science & Technology, Vol. 2, Issue 2, Ver. 2 Apr-June 2014.

PATENT

Design registration awarded – Intellectual Property India certified *Automated Grading and Feedback System for Educational Assessments* (Design No. 428030-001), 2024.

WORKSHOP / FDP / STTP

1. Participated in the One Day workshop on Uploading Students Credit Data on ABC/NAD Portal, organized by the Department of Higher Education in collaboration with Kalinga University, Naya Raipur on 21st May 2025.

2. One Week Faculty Development Program on "Designing, Developing & Delivering Moocs" organized by IQAC, Govt. V.Y.T. PG Autonomous College, Durg, from 17th to 22nd March 2025.

3. One Week Short program in "Innovation, start-up, and Industry-academia linkage", organized by Pt Ravishankar Shukla University, Raipur (C.G.) under the aegis of Malviya Mission Teacher Training Center, from 10.02.2025 to 15.02.2025

4. Online One Week Faculty Development Program on "Recent Research Advances in Sustainable Development & Capacity Building held from 1st-7th February,2024, organized by Govt. Bilasa Girls P.G. Autonomous College, Bilaspur(C.G.).

5. One Week STTP on "Research Methodology Course in Social Science with Applications of SPSS" Organized by Department of Economics ,Govt. V.Y.T. PG Autonomous College,Durg(C.G.),during 27th October to 2nd November 2023.

6. One Week Faculty Development Program on "Indian Knowledge System" held from 20th September to 27th September,2023,organized by the department of Biotechnology, Chemistry & Physics of Govt. V.Y.T. PG. Autonomous College,Durg ,Chhattisgarh , India.

7. State level workshop on Academic Bank of credits for universities & Autonomous Colleges of Chhattisgarh,India organised by Directorate of Higher Education,Chhattisgarh& Govt. VYT pG Autonomous College,Durg under NEP 2020 on 13th April 2023.

8. One Week Faculty Development Program on "MODULES OF SELF DEVELOPMENT "organized by

Indira Gandhi Govt. Arts and Commerce College, Vaishali Nagar, Bhilai (C.G.) ,during 05th June 2021 – 11th June 2021.

9. Two weeks online Faculty Development Programme on "ICT Tools for Teaching Learning Process and Institute" jointly organized by Electronics and ICT Academics under the scheme of financial assistance for setting up of Electronics and ICT Academics" of the Ministry of Electronics and Information Technology (MeitY), Government of India from 10th -21th August 2020.

10. Three days National Virtual Workshop on "Stress Management under the pandemic of Covid-19" organized by Govt. Digvijay PG. Autonomous College, Rajnandgaon, Chhattisgarh , from 22,23 and 24 July ,2020.

11. Five-day online Faculty Development Program on "Excellence in College Education after COVID-19 Pandemic" organized by Govt. E. Raghavendra Rao Postgraduate Science college, Bilaspur, Chhattisgarh from 30th June to 4 th July,2020.

12. Two weeks online Faculty Development Programme on "Machine Learning for Computer Vision" jointly organized by Electronics and ICT Academies under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Ministry of Electronics and Information Technology (MeitY), Government of India, With Excellent Grade, June 29 -July 8, 2020.

13. One-week ATAL Sponsored Faculty Development Program on "Data Science and its Applications" at NIT, Raipur, 09 December to 13 December 2019.

14. One Week Faculty Development Programme on "Artificial Intelligence and Machine Learning", Sponsored by Ministry of Electronics and Information Technology (Meity), Govt. of India, jointly organized by Electronics and ICT Academy and Indian Institute of Technology Roorkee, during 17 December – 21 December 2018 at NIT, Raipur.

15. One Week AICTE approved Faculty Development Programme on "Big Data Analytics using Hadoop and Spark", Organized by Bhilai Institute of Technology, Durg (C.G.) from 26th November to 01th December 2018.

16. One week STTP on Machine Learning organized by Electronics and Telecommunication and Information Technology Department in National Institute of Technology, Raipur(C.G.) from 28th August to 1st September,2017.

ORIENTATION/REFRESHER

1. Participated in **4-Week Orientation Program** for Faculty in Universities/Colleges/Institutes of Higher Education" organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Human Resource Development, Pandit Madan Mohan Malaviya National Mission on teachers and teaching from June 26 - July 24, 2020 with grade **A+**.

2. Participated in Two-Week Refresher Course On "Managing Online Classes & Co- creating MOOCS 15.0" organized by University of Delhi under the aegis of Ministry of Human Resource Development, Pandit Madan Mohan Malaviya National Mission on teachers and teaching from 06 - 20 June, 2022 with Grade A+.

3. Participated in Two Week Refresher Course in Computer Science, Batch - XV (online) organized by the University of Madras, Chennai, under Malviya Mission Teacher Training Centre from 01.11.2024 to 14.11.2024 with Grade A+.

CONFERENCES/SEMINARS

1. Presented research paper titled "**Sentiment Analysis of Students' Feedback using Hybrid CNN-LSTM Model**", on the topic of "Multidisciplinary Research Local to Global Innovation" on 15th July 2023 at Puducherry, India, organized by The Progress, an initiative of Shri Aurobindo Society, India.

2. Presented research paper titled "**Sentiment Analysis of Students Feedback using BiLSTM**" in Sustainable India International Conference,2023, on the topic of "Future Innovation and Sustainable Development for Asian Countries" on virtual mode organized by Sustainable India AUROPATH, Shri Aurobindo Society, Puducherry, India, in association with Dhonburi Rajabhat University, Thailand 14th Jan 2023.

3. Presented paper entitled "**Priory Phase of Machine Learning for Web-Based Learning & Student Opinion: A Survey**" in the Auropath International Conference,2019, Dhonburi Rajabhat University, Thailand, on"Future Innovation and Sustainable Development for Asian Countries" in virtual mode, organized by AUROPATH, Shri Aurobindo Society, Puducherry, India, 14th Dec 2019.

4. Presented paper in Two-day National Seminar on **"Historical and Cultural Heritage of Tribal Society in the Present Scenario"** sponsored by Directorate General of the Ministry of Culture and Archeology at Govt. Kaktiya PG College, Jagdalpur, Bastar(C.G.) in the topic **"Role of ICT in Improving Status of Education of Tribals in India" ,** during 28-29 March 2018**.**

5. Presented paper in Two days National Seminar on **"Intervention of Information and Communication Technology for Productive Management of in Higher Education"** Sponsored by CGCOST,Raipur organized by GD Rungta College of Science & Technology, Bhilai (C.G) in the topic **"Changing Paradigm of Indian Higher Education through Web Based E-Learning"** during 5th -6th January , 2018.

6. Presented paper in National Seminar On "**Recent Algorithmic Approach in Computer Science & Mathematics"** sponsored by CGCOST, organized by Dept. of Computer Science & Mathematics at Swami Shri Swaroopanand Saraswati Mahavidyalaya, Bhilai(C.G.) in the topic **"Document Image Authentication Scheme with Data Repair Capability".**

7. Participated in National Conference on **"Current Environmental Issues and Sustainable Development"** organized by organized by Dept. of Applied Chemistry Innovation for National Development at Bhilai Institute of Technology during 29th -30th January 2016.

8. Participated in the International Conference on **"Status of Science & Technology in Chhattisgarh State"** Sponsored by Chhattisgarh Council of Science and Technology, Raipur (C.G.), at Bhilai Institute of Technology, Durg, during 19th - 20th March 2015.

9. Participated in National Conference on **"Advances in Pollution Control and Remediation"** organized by Dept. of Applied Chemistry Innovation for National Development at Bhilai Institute of Technology during 20th -21st February 2015

CONFERENCES/WORKSHOPS/STTPS ORGANIZED:

1. **Organizing Secretary** of Two Days National Workshop on Ethical Hacking, organized by the Department of Computer Science in association with the IQAC Cell, Govt. V.Y.T. PG. Autonomous College, Durg (CG) held on 16th and 17th December 2022. (C.G.).

2. **Organizing Secretary** of National Workshop on Data Analytics using R, held on 23-24 February 2019 at the Govt. Kakatiya P.G. College, Jagdalpur (C.G.) sponsored by CGCOST.

ACADEMIC AND ADMINISTRATIVE RESPONSIBILITIES

- Member of Board of Studies, CS & CA Department of GS College of Economics and Commerce (Autonomous), Jabalpur (C.G.)

- Member of Board of Studies, Bastar University, Jagdalpur, (C.G.)

- Member of Board of Studies, Bharti University, Durg, (C.G.)

- Member Shri Aurobindo Society, Puducherry.

INVITED TALKS PRESENTED AS A RESOURCE PERSON/INVITED SPEAKER

1. Delivered an invited talk on "Natural Language Processing" at the One-Day National Workshop "Unlocking the Future: An Interactive Workshop on Artificial Intelligence" organized by B.C.S. Government P.G. College, Dhamtari (C.G.), 05 July 2025.

2. Delivered an invited talk on "Blockchain Architecture & Components", organized by Shri Shankaracharya Mahavidyalaya, Junwani, Bhilai (C.G.), 06 May 2025.

3. Delivered an invited talk on "National Ethical Foundation and Practical Applications in Research Integrity", IIT Bhilai, 30 November 2024.

4. Delivered an invited talk on "AI in Higher Education" in Two days National Workshop organized by Dev Sanskriti College of Education & Technology on 23/02/2024.

5. Delivered an invited talk on "Career Guidance – Online Certification Courses", Government Digvijaya Autonomous P.G. College, organized by Rajnandgaon (C.G.), 13 December 2023.

6. Delivered an invited talk on "Programming Concepts & Logic Building", organized by Sai Mahavidyalaya, Sector-6, Bhilai (C.G.), 06 December 2023.

7. Delivered an invited talk on "Artificial Intelligence and Machine Learning", organized by Shri Shankaracharya Mahavidyalaya, Junwani, Bhilai (C.G.), 08 December 2023.

8. Delivered an invited talk on "Effective Teaching & Learning" during a Three-Day Virtual FDP, organized by Bharati Group of Institutions, Durg (C.G.), July 2020.

9. Delivered an invited talk on "COVID-19 Pandemic: Impact & Strategies for the Education Sector in India" in a National Webinar jointly organized by Gitanjali Teachers' Training College, Murshidabad, and The Progress, 03 June 2020.

DECLARATION

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

(Dr. Latika Tamrakar)