

Dr. Shalini Sharma

Accomplished Computer Science Teacher with 25+ years of academic experience focused at creating detailed lessons and comprehensive plans for monitoring student growth.

Designation	Associatet Professor
Department	Computer Science
Email	shalinisharma@kalindi.du.ac.in

Educational Qualifications

Degree	University	Year
Ph.D	Galgotias University	2024
M.Phil	J.R.N Rajasthan Vidyapith	2006
M.C.A	Banasthali Vidyapith	1998
B.Sc	Banasthali Vidyapith	1995

Career Profile

September 1998 to till date	Associate Professor in Kalindi College
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Areas of Interest / Specialization

My area of interest is Big Data Reliability, Graphics and Networking. I am currently my research work based on developing Software reliability model using Big fault data.

Subjects Taught

Graphics, Data Structures, Networking, Database Management Systems, Operating Systems, Computer System Architecture, Compiler Design, Language :C,C++.

Publications

Research papers published in Refereed/Peer Reviewed Journals

- Sharma, S., Kumar, N., & Kaswan, K. S. (2021). Big data reliability: A critical review. *Journal of Intelligent & Fuzzy Systems*, 40(3), 5501-5516. DOI: [10.3233/JIFS-202503](https://doi.org/10.3233/JIFS-202503).
- Sharma, S., Kumar, N., & Kaswan, K. S. (2021). "Ranking of Reliability Models based on Accurate Estimation and Weighted Function". IEEE 3rd International Conference on Advances in Computing, Communication Control and Networking (ICAC3N), 1679-1685,doi: 10.1109/ICAC3N53548.2021.9725534 (SCOPUS).
- Sharma, S., Kumar, N., & Kaswan, K. S. (2023). "Hybrid Software Reliability Model for Big Fault Data and Selection of Best Optimizer Using an Estimation Accuracy Function". *International Journal on Recent and Innovation Trends in Computing and Communication*, 11(1), 26-37. Doi: <https://doi.org/10.17762/ijritcc.v11i1.5984>. (SCOPUS)
- Sharma, S., Kumar, N., & Kaswan, K. S. (2024). Development of Hybrid Reliability Model using Big Fault Data. *International Journal of System Assurance Engineering and Management*. <https://doi.org/10.1007/s13198-023-02210-w> (Springer Nature,, ESCI, SCOPUS)

Research papers published in Refereed/Peer Reviewed Conferences

- Rajani, Sambyal, P., & Sharma, S. (2018). Sentiment Analysis and Classification of Tweets based on ideologies. *42nd International Academic Conference* (pp. 340-347). Rome: International Institute of Social and Economic Sciences. DOI:[10.20472/IAC.2018.042.041](https://doi.org/10.20472/IAC.2018.042.041).
- Terrance, A. R., Sharma, S., Sharma, A., Tyagi, K., Shokeen, N., & Saini, N. (2019). In-depth Analysis of the Performance of RSA and ECC in Dlgital Signature Applications. *UGC Sponsered NAtional CONference on Emerging Trends in Information Technology* (pp. 15-27). Delhi: Bloomsbury

- Sharma, S., Kumar, N., & Kaswan, K. S. (2019). Big Data Applications in Real World. *UGC Sponsored National Conference on Emerging Trends in Information Technology* (pp. 158-173). Delhi: Bloomsbury

Participation in Conference /Refresher/ Workshop/Short Term Course/Seminars (Last five Years)

- Participation in **Capacity Building Workshop** on “E-Content Creation”, held on “09.2016 organized by Institute of Lifelong Learning, D.U
- Participation in Inter College **Skill Development Workshop** on “**Latex and Statistical Techniques**” held on 24-25,oct,2016 organized by Computer Science and Maths Department of Kalindi College.
- Participated in **National Seminar** on “**A Paradigm Shift Towards Empowerment of women**” held on 3-4 Feb 2017, sponsored by Department of Science and Technology, and organized by Science Departments, Kalindi College.
- Participated in **workshop** on “**Cyber Security**” held on 14.8.2018, organized by Computer Science Department, Kalindi College.
- Participated as co-convenor of the organizing committee in “**National Conference on Emerging Trends in Information Technology**” organized by Department of Computer Science, Kalindi College.
- Two weeks online short term training programme on research methodology (july 06-18, 2020) organized by GAUTAM BUDDHA UNIVERSITY, Noida,U.P.
- Completed two week refresher course in Engineering,Physical Science and Management uring 19-31 october 2020 organized by Bharti Vidyapith’s Institute of Computer Applications(BVICAM).
- Attended 5 days FDP cum Workshop on A.I. , from 2nd -6th April 2021, organized by Aurobindo College,D.U.
- Attended 5 days workshop on Data Analysis using Python, from 24th – 28th June 2021, organized by Maitreyi College,D.U
- Attended 2 weeks FDP on “Usage of ICT in Education: Challenges and Opportunities during Covid19”, from 02nd July- 15th July, 2021 organised by Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi in collaboration with Department of Mathematics, Chaudhary Charan Singh University, Meerut

Research Projects (Minor/Major Grants/Research Collaboration)

Minor Projects funded by Kalindi College

- Study of Security issue in Manet, 2018-2019.
- Application of Data Analysis in Education, 2019-2020.

Other Activities

Cultural Responsibilities

- Part of cultural committee for all college functions (Freshers, Cultural Fest: Solo dance, Group Dance, Antakshri, One Act Play, Annual day, Sports Day) either in capacity of member, co-convenor, and convenor since 1998.
- Work as Students Union Advisor for few years.
- Worked as Co-convenor of orientation, (2015 to 2020)
- Worked as Sports committee member.

- Worked as Cultural clubs (dance and music) execution committee co-ordinator
- Won first prize(twice) or second prize(thrice) during teachers talent hunt in cultural program,(2017-2020).
- Convener of cultural event lehren in 2008 and co-convener in 2009.

Administrative Responsibilities

- Worked as Purchase committee member.
- Worked as Technical committee in-charge and member.
- Appointed as B.Voc Coordinator from 2016 till 2020.
- Appointed as AQAR criteria IV convener from 2017 till 2020.
- Worked as Wi-Fi committee member, 2016 till 2020.
- Departmental incharge (2018-2020)
- Appointed as Co-convener of National conference organized by computer science department, 2019.
- Appointed as Convener printing and design in national science seminar organized by science departments in 2017.

Hobbies

Dance, Listening Music, Reading, Painting

- Won First prize winner/ Second prize in Teachers Talent Hunt event during cultural fest.



Signature