


| Dr. Rajani | | | |
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| Designation | Assistant Professor | |  |
| Department | Computer Science | | |
| Address (Official) | Kalindi College, University of Delhi, East Patel nagar, New Delhi-110005. | | |
| Email | rajani.cs@kalindi.du.ac.in | | |
| Education | | | |
| Degree | Institution | Year | Details |
| B.Sc(Comp.Sc) | M.D.U Rohtak | 2001 | II nd division |
| B.Ed(Maths,Science) | K.U.K Kurukshetra | 2002 | 1 st division |
| M.Sc(Maths) | G.J.U Hissar | 2006 | 1 st division |
| M.Sc(Comp.Sc.) | EIILM Sikkim | 2012 | 1 st division |
| Ph.D (Computer Applications) | Galgotias University | 2022 | Design and Development of Software Reliability model using soft computing techniques |
| Career Profile | | | |
| Organisation/Institution | Designation | Duration | Role |
| HMR Institute of Technology and Mgt.Delhi (GGSIPU Delhi) | Assistant Professor | 6 year | Teaching |
| Research Interests/Specialization | | | |
| Software Engineering | | | |
| Administrative Assignments / Contribution to corporate life | | | |
| 2025-2026 | Convener,SPIC MACAY | | |
| 2024-2025 | Co-Convener,SPIC MACAY | | |

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| 2023-24 | Co-Convener, Scholarship and Fee concession |
| 2022-23 | Member, Scholarship and Fee concession, ECA core committee |
| 2023-2024 | Member,ECA core committee |
| 2022-2023 | Member , B.A Prog. Committee, Central Time Table Committee, AQAR, PTSI Committee, |
| 2021-2022 | Member , B.A Prog. Committee, Central Time Table Committee, AQAR, PTSI Committee, |
| 2020-2021 | Co-ordinator, OBE Exam |
| 2019 | Member, Examination Committee(Comp.Sc dept.) , College Prospectus |
| Teaching Experiences (Subject/Courses taught) | |
| <p>Courses Taught B.Sc. (H) Computer Science, B.Sc. (Physical Sciences), B.Sc. (G) Computer Science, B.A(P) Computer Application, BIS, B.Tech(Comp. Sc.)</p> <p>Subjects Taught Programming Languages – C++, Data Structures, Operating System, and Database Management Systems,Python,DAV.</p> | |
| Research Guidance | |
| Successfully supervised and completed one Ph.D. degree. | |

Publications (Peer-Reviewed / Indexed Journals)

1. Rajani, N. K., & Kaswan, K. S. (2022). *Soft hunting algorithm for auto-tuning software reliability growth models*. *Wireless Communications and Mobile Computing*, 2022, Article 3752264. <https://doi.org/10.1155/2022/3752264>
2. Rajani, N. K., Kumar, N., & Kaswan, K. S. (2021). *Statistical measurement of software reliability using meta-heuristic algorithms for parameter estimation*. In *Advances in Computing and Communication Technologies* (Springer). https://doi.org/10.1007/978-981-16-7167-8_55
3. Singh, A., Kaswan, K. S., & Rajani. (2025). *VELM: A voting-based ensemble learning model for breast cancer prediction*. *Physica Scripta*, 100(2), 026002. <https://doi.org/10.1088/1402-4896/ada18d>
4. Singh, A., Kaswan, K. S., & Rajani. (2025). *Machine learning techniques for breast cancer prediction: A comprehensive review on techniques and datasets*. *Communications on Applied Nonlinear Analysis*, 32(9s). <https://doi.org/10.52783/cana.v32.3964>
5. Singh, A., Kaswan, K. S., & R. (2025, August). *A stacking ensemble approach for breast cancer prediction with SMOTE-based resampling and feature selection*. In *2025 International Conference on Intelligent and Secure Engineering Solutions (CISES)* (pp. 319–324). IEEE. <https://doi.org/10.1109/CISES66934.2025.11264959>

Awards & Distinctions

- Qualified UGC-NET (2012) in Computer Science.