


FACULTY PROFILE

Name	Ms Reshu Chaudhary	
Designation	Assistant Professor	
Department	Computer Science	
Address (Official)	Kalindi College, University of Delhi, East Patel Nagar, New Delhi-110005. India	
Phone No	011-25787604	
Email	reshuchaudhary@kalindi.du.ac.in	

Education

Subject	Institution	Year	Details
Ph.D. (Computer Science) <i>Thesis Title: 'Enhancing Efficiency in Swarm Intelligence Algorithms Towards Novel Peacock Algorithm'</i>	Department of Computer Science, University of Delhi	2021	Thesis submitted
MCA	Department of Computer Science, University of Delhi	2010	83.47%
B.Sc. (G) with Computer Science	Hansraj College, University of Delhi	2007	76.44%

Career Profile

Organization/Institution	Designation	Duration	Role
Kalindi College, University of Delhi	Assistant Professor	18 Feb 2021 to Present	Teaching
Bharati College, University of Delhi	Guest Faculty	11 Feb 2021 to 17 Feb 2021	Teaching
Agnity India Technologies Pvt Ltd	Member Technical Staff	5 th July 2010 to 30 th November 2011	Software Developer

Research Interest/Specialization

Evolutionary Algorithms, Optimization, Data Structures, Java

Teaching Experience (Subject/Courses taught)

Courses Taught

- B.Sc. (H) Computer Science
- B.Sc. (P) Physical Science
- B.A. (P) with Computer Application
- B.Sc. (H)/B.A. (H) Generic

Subjects Taught

- Artificial Intelligence
- Data Structures
- Data Analysis using Python Programming
- Software Engineering
- Information Security and Cyber Laws
- Programming with Python
- Android Programming

Administrative Assignments / Contribution to corporate life

College Level Administrative Responsibilities:

- Media & Publicity Committee
- Website Committee
- E-Content Committee
- Prospectus Committee
- Annual Day Technical Committee
- YouTube Committee
- Twitter Committee

Departmental Level Administrative Responsibilities:

- Timetable Committee
- Mentoring and Weak Students Record
- Student Progression Report
- Course Completion Report

Publications (Peer Reviewed/Indexed Journals)

Year of Publication	Title	Journal Name	Co-author
2021	Chaudhary, R., & Banati, H. (2021). Improving convergence in swarm algorithms by controlling range of random movement. <i>Natural Computing</i> . doi:10.1007/s11047-020-09826-y	<i>Natural Computing</i> Impact factor: 1.690 Indexed: SCIE and Scopus	Hema Banati
2020	Chaudhary, R., & Banati, H. (2020). Study of population partitioning techniques on efficiency of swarm algorithms. <i>Swarm and Evolutionary Computation</i> , 55, 100672. doi:10.1016/j.swevo.2020.100672	<i>Swarm and Evolutionary Computation</i> Impact Factor: 7.177 Indexed: SCIE and Scopus	Hema Banati
2020	Chaudhary, R., & Banati, H. (2020). Hybrid Enhanced Shuffled Bat Algorithm (HESB) for Data Clustering. <i>International Journal of Advanced Intelligence Paradigms (IJAIP)</i> , 17(3/4), 323 – 341. doi:10.1504/IJAIP.2020.10029347	<i>International Journal of Advanced Intelligence Paradigms (IJAIP)</i> Indexed: Scopus	Hema Banati
2019	Chaudhary, R., & Banati, H. (2019). Swarm bat algorithm with improved search (SBAIS). <i>Soft Computing</i> , 23, 11461 – 11491. doi:10.1007/s00500-018-03688-4	<i>Soft Computing</i> Impact factor: 3.643 Indexed: SCIE and Scopus	Hema Banati
2019	Chaudhary, R., & Banati, H. (2019). Weighted Multi-Modal Bat Algorithm with Improved Search (wMMBAIS). <i>International Journal of Hybrid Intelligence</i> , 1(4), 326 – 361. doi:10.1504/IJHI.2019.106788	<i>International Journal of Hybrid Intelligence</i>	Hema Banati
2017	Banati, H., & Chaudhary, R. (2017). Multi-Modal Bat Algorithm with Improved Search (MMBAIS). <i>Journal of Computational Science</i> , 23, 130 – 144. doi:10.1016/j.jocs.2016.12.003	<i>Journal of Computational Science</i> Impact Factor: 3.976 Indexed: SCIE and Scopus	Hema Banati
2010	Pal, S.K., Kapoor, S., Arora, A., Chaudhary, R., & Khurana, J. (2010). Design of strong cryptographic schemes based on Latin Squares. <i>Journal of Discrete Mathematical Sciences and Cryptography</i> , 13(3), 233 – 256. doi:10.1080/09720529.2010.10698290	<i>Journal of Discrete Mathematical Sciences and Cryptography</i> Indexed: Scopus	Sabil K Pal, Shivam Kapoor, Alka Arora, Jatin Khurana

Seminar/Workshop/Conference Presentations

1. **Chaudhary, R.**, & Banati, H. (2019). Peacock Algorithm. *IEEE Congress on Evolutionary Computation (CEC)* (pp. 2331 – 2338). Wellington, New Zealand: IEEE. [doi:10.1109/CEC.2019.8790371](https://doi.org/10.1109/CEC.2019.8790371) (**Scopus Indexed**)
2. **Chaudhary, R.**, & Banati, H. (2019). Capitalizing Diversity for Efficiency Enhancement in Multi-Population Swarm Algorithms. *10th International Conference on Computing, Communication and Networking Technologies (ICCCNT)* (pp. 1 – 7). Kanpur, India: IEEE. [doi:10.1109/ICCCNT45670.2019.8944872](https://doi.org/10.1109/ICCCNT45670.2019.8944872) (**Scopus Indexed**)
3. **Chaudhary, R.**, & Banati, H. (2018). Modified Shuffled Multi-Population Bat Algorithm. *International Conference on Advances in Computing, Communications and Informatics* (pp 943 – 951). Bangalore, India: IEEE. [doi:10.1109/ICACCI.2018.8554926](https://doi.org/10.1109/ICACCI.2018.8554926) (**Scopus Indexed**)
4. **Chaudhary, R.**, & Banati, H. (2018). Adaptive Multi-Swarm Bat Algorithm (AMBA). In Das, K., Bansal, J., Deep, K., Nagar, A., Pathipooranam, P., & Naidu, R. (Ed.) *Soft Computing for Problem Solving. Advances in Intelligent Systems and Computing, 1048*, pp. 805-821. Springer. [doi:10.1007/978-981-15-0035-0_66](https://doi.org/10.1007/978-981-15-0035-0_66) (**Scopus Indexed**)
5. **Chaudhary, R.**, & Banati, H. (2017). Shuffled multi-population bat algorithm (SMPbat). *International Conference on Advances in Computing, Communications and Informatics (ICACCI)* (pp. 541 – 547). Udupi, India: IEEE. [doi:10.1109/ICACCI.2017.8125873](https://doi.org/10.1109/ICACCI.2017.8125873) (**Scopus Indexed**)
6. Banati, H., & **Chaudhary, R.** (2016). Enhanced Shuffled Bat Algorithm (EShBAT). *International Conference on Advances in Computing, Communications and Informatics (ICACCI)* (pp. 736 – 743). Jaipur, India: IEEE. [doi:10.1109/ICACCI.2016.7732134](https://doi.org/10.1109/ICACCI.2016.7732134) (**Scopus Indexed**)

Awards and Distinctions

Cleared UGC–NET–JRF (December2013)
Got All India Rank 5 in NIMCET 2007
Got All India Rank 5 in DU MCA Entrance 2007
Got All India Rank 42 in PU MCA Entrance 2007