


SHYAM LAL COLLEGE (EVE.)

UNIVERSITY OF DELHI

Faculty Proforma



Title	Ms.	First Name	Sonia	Last Name	Singh	
Designation		Assistant Professor				
Address		409-D, Express Greens Apartments. Plot 1, Sector 1, Vaishali, Ghaziabad, UP 201010.				
Phone No	Office					
	Residence	203501362				
	Mobile	9540512809				
Email		ssingh@shyamlale.du.ac.in , 14sonia.singh@gmail.com				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
1. Ph.D. (Pursuing)		Manav Rachna International Institute of Research and Sciences			-----	
2. PG (M. Sc) Computer Science		Department of Computer Science, North Campus, University of Delhi			2012	
3. UG (B. Sc(H)) Computer Science		Acharya Narendra Dev College, University of Delhi			2010	
Career Profile						
<ul style="list-style-type: none"> • Assistant Professor (Ad-hoc), Dept. of Computer Science, Shyam Lal Evening College from Aug 2014 to Till Date. • Assistant Professor (Ad-hoc), Dept. of Computer Science, Shaheed Rajguru College of Applied Sciences for Women. (Jan 2014 to May 2014). <p>I am a successful Computer Science teacher with more than 8 years of professional teaching experience in University of Delhi. Pursuing Ph.D. to attain a higher state of knowledge and a Permanent Position in University of Delhi.</p>						
Administrative Assignments						
<ul style="list-style-type: none"> • Worked as a member of Art, Drama and Cultural committee of college and perform my duties on time. • Worked as a member of Skill Development cell committee of college. 						

- Worked as a member of Gandhi Study Circle committee of college.
- Worked as a member of NSS committee of college.
- Worked as a convenor for the admission of BA (SC+ST) committee.
- Worked as a member Website committee of college.
- Worked as a member of APC committee of college.
- Preparing NAAC reports For Department
- Organizer of Various events to enhance students' knowledge in the college at the departmental level.
- Organizer of Various Seminars in the college at the departmental level.
- Organizer of Various "TALKS" from special invitees in the college at the departmental level.
- Arrange Sponsors for the departmental Fest of Computer Science Department.

Areas of Interest / Specialization

- Internet of Things.
- DBMS
- Data Mining
- Operating System
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Subjects Taught

1. Sports for Life in VAC
2. Ayurveda and Nutrition in VAC
3. Data Mining I and Data Mining-II for BAP NEP
4. Operating System to BAP Programme NEP
5. Data Interpretation and Visualization in Python to BAP Programme NEP
6. Python Programming to BA Programme
7. CNIT to BA Programme
8. DBMS to BA Programme
9. OSS to BA Programme
10. Search Engine Optimization to BA Programme
11. Office Automation Tools to BA Programme
12. Information Security to BA Programme
13. Introduction to Python to GE(H)
14. DBMS to GE(H)
15. CNIT to GE(H)

Research Guidance

NA

Publications Profile

Published more than 8 papers in reputed journals and conferences.

Publications

- [1] S. Singh and N. Gupta, "Enhancing Quality of Service in WSN Through a Routing Algorithm Based on Self-Organizing Maps," AAIML Scopus, 2024.
- [2] S. Singh and N. Gupta, "Empirical Study of Energy-Efficient Routing Protocol for Internet of Things," in Proc. IEEE Int. Conf. Adv. Comput., Commun. Inf. Technol. (ICAICCIT), 2023.
- [3] S. Singh and N. Gupta, "Emerging QoS Strategies: A Comprehensive Overview of Clustering Techniques in IoT-Equipped WSNS," in Proc. IEEE Int. Conf. Adv. Comput., Commun. Inf. Technol. (ICAICCIT), 2023.
- [4] S. Singh and S. Duggal, "Challenges of Integration of Blockchain into Internet of Things (IoT): A Survey," in Proc. Int. Conf. Frontiers of Science and Technology 2021, Ghaziabad, India, 13–14 Aug. 2021, vol. 2597, no. 1, AIP Conf. Proc. 2597, 060004, Dec. 29, 2022. doi: 10.1063/5.0118864.
- [5] S. Singh, A. Kumar, and M. Kathuria, "Understanding the Public, Private and Consortium Consensus Algorithms in Blockchain Technology," Int. J. Blockchains Cryptocurrencies, vol. 3, no. 3, pp. 269-288, Oct. 12, 2022. doi: 10.1504/IJBC.2022.126285.
- [6] S. Singh and P. Gupta, "Comparative Study of ID3, CART and C4.5 Decision Tree Algorithm: A Survey," Int. J. Adv. Inf. Sci. Technol. (IJAIST), vol. 27, no. 27, pp. 97, Jul. 2014.
- [7] S. Singh and M. Giri, "Evaluating the ID3 Decision Tree Algorithm in WEKA," IME J., vol. VIII, no. 2, pp. 0974-0716, Jul. 2014.
- [8] M. Giri and S. Singh, "Issues in Mobile E-Commerce: A Survey," Int. J. Comput. Sci. Inf. Technol., vol. 5, no. 4, pp. 5068-5070, 2014.
- [9] P. Gupta and S. Singh, "Image Encryption Based on Arnold Cat Map and S-Box," Int. J. Adv. Res. Comput. Sci. Softw. Eng., vol. 8, no. 8, pp. 2277-1280, Aug. 2014.

Conference Organization/ Presentations
NA
Research Projects (Major Grants/Research Collaboration)
NA
Awards and Distinctions

A. Faculty Development Programmes

1. Successfully completed a One Week Faculty Development Programme on "Open-Source Tools for Research" from June 08 - June 14, 2020 from Teaching Learning Centre Ramanujan College, University of Delhi, Sponsored by Ministry of Human Resource Development, Government of India, Pandit Madan Mohan Malviya National Mission on Teachers and Teaching.
2. Successfully completed a One-week (Online) Faculty Development Programme on "Online Teaching Platforms" from August 10-17, 2020 organized by Computer Software and Website Committee, Shyam Lal College (Eve.), University of Delhi.
3. Successfully completed a One-week (Online) Faculty Development Programme on "BLOCKCHAIN TECHNOLOGIES AND APPLICATIONS (BCT-2020)" organized by Department of Computer Science & Engineering and Information Technology, Noida from Dec 28, 2020-Jan 2, 2021.

B. Webinars

1. Participated in the Webinar on "Intellectual Property Rights in Traditional Knowledge and Biodiversity" organized by Internal Quality Assurance Cell (IQAC) in collaboration with Department of Philosophy, Mata Sundri College for Women, University of Delhi on May 9th, 2020 through Google Meet.
2. Participated in webinar on topic "COVID-19, Impact and Strategies for Education and Challenges in Virtual Learning" organized by Department of Computer Science, Shri Guru Gobind Singh College for Commerce in collaboration with IQAC, University of Delhi, India on 12th May, 2020
3. Participated in webinar on topic "Role of Mathematics in Covid-19: Existing literature, Outcomes, and Challenges in various direction" organized by ARSD College, Dhaula Kuan held on 14 th May, 2020.
4. Participated in webinar on topic "E- content: Design and Delivery" organized by ARSD College, Dhaula Kuan held on 15th May, 2020.
5. Participated in webinar on topic "Engendering Migration during COVID crisis: Reflections" organized by ARSD College, Dhaula Kuan held on 15 th May, 2020.
6. Participated in the webinar on the topic "Current Trends in Information Technology" organized by Department of Computer Science in Collaboration with Department of Mathematics, Bharati College, University of Delhi on 15th May 2020.
7. Participated in webinar on topic "Real Education of Geniuses" organized by ARSD College, Dhaula Kuan held on 16 th May, 2020.

8. Participated in Webinar on “Emerging Trends in Cyber Security” organized by “Centre for Training & Development (CTD) (An initiative of URAN Foundation-Reg No: 1550/2020”, Under society registration act XXI of 1860, Govt of India) on 17 th May, 2020.

9. Participated in webinar on topic “Mind management Mantras: Art of living” organized by ARSD College, Dhaula Kuan held on 17 th May, 2020.

10. Participated in webinar on topic "LEADERS AS COMMUNICATOR" organized by Department of Computer Science, Bharati College, University of Delhi, India on 20th May, 2020.

11. Participated in webinar on topic “Artificial Intelligence” organized by ARSD College, Dhaula Kuan held on 29 th May, 2020.

12. Participated in International Webinar Session on “Network-Based Approaches to Explore the Biological Data” on 24th July 2020 organized by Department of Computer Science, Maitreyi College, University of Delhi, India.

C. Workshops

Participated in a workshop on the topic “Google Classroom: Teaching, Learning and Managing” organized by the Department of Computer Science, Swami Shraddhanand College, University of Delhi on May 24, 2020.

Association With Professional Bodies

NA

Other Activities

- Part of many committees at college level and always complete the given assignments on time.



Signature of Faculty Member