

# Prof.Sangeeta Srivastava

Date of Birth: 09 February 1966

Contact

Om Sai

Mobile : 9873027777

Email:

sangeeta.srivastava@bcas.du.ac.in

Current Designation and Academic Level: Professor, Level 14

---

## A. Academic Qualifications

### Graduation:

- **Degree:** B.Tech in Electrical Engineering
- **University:** H.B.T.I Kanpur University
- **Year of Passing:** 1987
- **Percentage:** 80% (1st class with Distinction, 2nd Position Holder, Merit Scholarship Holder in all 4 years)

### Post-Graduation:

- **Degree:** M.E in Computer Technology and Applications
- **University:** DCE, Delhi University
- **Year of Passing:** 1997
- **Percentage:** 82% (1st class with Distinction, Position Holder)

### Other Examinations:

- **NET:** UGC-NET, Qualified in 1998

### Research Degrees

#### Ph.D/ D.Phil.:

- **University:** Faculty of Technology, Delhi University
- **Title:** Method Engineering in Information Systems
- **Date of Award:** March 2007

### **D.Sc/D.Lit.:**

- **University:** UPES Dehradun
- **Title:** A Systematic Transformation Approach from Requirements to Design Engineering for Web Applications
- **Date of Award:** 30th November 2019

## **B. Courses Taught at Under Graduate and Ph.D. Level**

- Software Engineering
- DBMS
- Windows Programming
- C++
- Data Analysis and Visualization using Python
- Computer Networking
- Operating Systems
- Microprocessor
- Data Mining
- Research Methodology

## **C. Fields of Specialization**

- Software Engineering
- Method Engineering
- Requirements Engineering
- Database Management Systems
- Machine Learning
- Data Visualisation
- Data Mining

- Web-based Engineering
- Cyber Security

## D. Teaching Experience

### Bhaskaracharya College of Applied Sciences

- **Lecturer (09/11/1999 - 09/11/2005):**
  - Delivered lectures on Electrical Engineering and Computer Technology.
  - Supervised undergraduate projects and practical sessions.
- **Sr. Lecturer (09/11/2005 - 09/11/2008):**
  - Enhanced curriculum for DBMS and Software Engineering courses.
  - Guided student research and project work.
- **Reader (09/11/2008 - 09/11/2011):**
  - Conducted advanced courses in Data Mining and Machine Learning.
  - Published research papers in national and international journals.
- **Associate Professor (09/11/2011 - 18/07/2018):**
  - Led research initiatives in Web-based Engineering.
  - Coordinated industry-academia collaboration projects.
- **Professor (18/07/2018 - Till Date):**
  - Teaching advanced courses in Data Sciences and Software Engineering.
  - Leading Department Research Projects and guiding PhD students.

## E. Industry Experience

### NHPC:

- **Engineer and Sr Engineer (1987 - 19/11/1991):**
  - Managed electrical projects, improving system efficiency by 15%.
  - Developed technical reports and documentation.

## **POWERGRID:**

- **Sr Engineer and Dy. Manager (19/11/1991 - 9/11/1999):**
  - Oversaw electrical grid projects, enhancing power distribution by 20%.
  - Led teams in implementing innovative engineering solutions.

## **F. Research Guidance**

- **M. Phil Guidance (2007 - 2008):**
  - Shailey Chawla at Madurai Kamaraj University
- **Ph.D Guidance (2010 - 2016):**
  - Dr. Shailey Chawla at FOMS, University of Delhi
- **Ph.D Guidance (2019 - Till Date):**
  - Mr. Sudhir Kumar Gupta at FOMS, UoD University of Delhi
- **Ph.D Advisory Committee Member (2020 - Till Date):**
  - Ms. Seema Rani at FOMS, University of Delhi

## **G. Administrative Responsibilities**

- **Teacher-in Charge (2015-2016):**
  - Managed daily administrative tasks for the Department of Computer Science.
- **Teacher-in Charge (2017-2019):**
  - Supervised departmental activities and academic programs.
- **Scrutiny Officer (2016-2020):**
  - Scrutinized BSA-DUSU Election Forms and ensured compliance.
- **Convener and Co-Convener Admission Committee (2021-2024), (2018-2019):**
  - Led Under Graduate student admission activities for all courses within the college.

## H. Major/Minor Research Projects

- **Data Analytics and Image Processing Techniques for Air Quality Monitoring Forecasting and Waste Detection in Delhi (July 2017 - December 2019):**
  - Minor project, self-funded.

## I. Books and Chapters Authored

- **Model transformation Mapping in Method Engineering- A Primer (2018)**
  - **Publisher:** Serial Publications Pvt. Ltd. New Delhi India
  - **ISBN:** 978-93-86611-29-1
- **Method Engineering in Information Systems (2018)**
  - **Publisher:** Serial Publications Pvt. Ltd. New Delhi India
  - **ISBN:** 978-93-86611-43-7
- **A Generic CAME Tool for Atomic and Compound Methods (2018)**
  - **Publisher:** Marshall Publishing Company New Delhi
  - **ISBN:** 978-81-94067-50-4
- **Inter Model Schema Transformation (2019)**
  - **Publisher:** Serial Publications Pvt. Ltd. New Delhi India
  - **ISBN:** 978-93-86611-56-7
- **Informatic Practices with Python (2020)**
  - **Publisher:** BR International Publishers New Delhi India
  - **ISBN-** 978-81-89974-688.
- **Book Chapter part of IFIP — The International Federation for Information Processing ,volume 103 (2002)**
  - Kluwer Academic Publishers vol 103. Springer, Boston, MA.  
[https://doi.org/10.1007/978-0-387-35614-3\\_10](https://doi.org/10.1007/978-0-387-35614-3_10),
  - **ISBN-** 978-1-4757-5149-9.

- **Book Chapter part of Book Series as a Chapter in Advances in Intelligent Systems and Computing, vol 1165 (2020)**
  - Springer, Singapore. [https://doi.org/10.1007/978-981-15-5113-0\\_1](https://doi.org/10.1007/978-981-15-5113-0_1), Pg 1-21. Aug 2020
  - Print ISBN 978-981-15-5112-3, Online ISBN978-981-15-5113-0
- **Book Chapter part of the book series: Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 117(2014)**
  - Springer, Cham. [https://doi.org/10.1007/978-3-319-11629-7\\_22](https://doi.org/10.1007/978-3-319-11629-7_22),
  - Print ISBN978-3-319-11628-0, Online ISBN978-3-319-11629-7.
- **Book Chapter part of the book series: Communications in Computer and Information Science, volume 168 (2011)**
  - Springer-Verlag, Berlin, Heidelberg. [https://doi.org/10.1007/978-3-642-22606-9\\_25](https://doi.org/10.1007/978-3-642-22606-9_25),
  - Print ISBN 978-3-642-22605-2, Online ISBN 978-3-642-22606-9,.
- **Book Chapter part of the book series: Communications in Computer and Information Science, volume 94 (2010)**
  - Publisher: Springer- Verlag, Berlin, Heidelberg. [https://doi.org/10.1007/978-3-642-14834-7\\_45](https://doi.org/10.1007/978-3-642-14834-7_45),
  - Print ISBN 978-3-642-14833-0, Online ISBN 978-3-642-14834-7

## J. Curriculum Design

- **B.I.S and B.Sc. (Hons.) Computer Science LOCF (2018-2019):**
  - **Subject:** Software Engineering, Database Management Systems, Computer Networks
  - **Organization:** Dept. Of Computer Science, UG level
  - **Weblink:** [http://du.ac.in/du/uploads/RevisedSyllabi1/Annexure-83.%20\(BSc\(H\)-Computer%20Science\).pdf](http://du.ac.in/du/uploads/RevisedSyllabi1/Annexure-83.%20(BSc(H)-Computer%20Science).pdf)

## K. Course Coordinator for MOOC

- **Cloud Literate Inventor's Badge:**
  - Developed and coordinated a cloud literacy certification course sponsored by BCAS ICT Academy and AWS.

## L. Publications

### Publications

#### CONFERENCES

1. S. Srivastava and S. K. Gupta, (September,2021) "Phishing Detection Techniques: A Comparative Study," 2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), Noida, India, 2021, pp. 1-6 <https://doi.org/10.1109/ICRITO51393.2021.9596093>, Publisher IEEE, Scopus
2. Bhalla, K., Srivastava, S., Gosain, A. (2021). Systematic Analysis and Prediction of Air Quality Index in Delhi. In: Gupta, D., Khanna, A., Bhattacharyya, S., Hassanien, A.E., Anand, S., Jaiswal, A. (eds) International Conference on Innovative Computing and Communications, Springer, Singapore. [https://doi.org/10.1007/978-981-15-5113-0\\_1](https://doi.org/10.1007/978-981-15-5113-0_1). Print ISSN 2194-5365, Online ISSN-2194-5357.Scopus
3. Srivastava S., K. Bhalla (2019) "A study of Air quality Index in Delhi Using Holt Winter Method ", Dec 2019, INDICON 2019, 16<sup>th</sup> IEEE India Council International Conference, Marwadi University, Rajkot, Gujrat.
4. Chawla, S., Srivastava, S. (2014). A Requirements Analysis Approach for Web Engineering. In: Das, V.V., Elkafrawy, P. (eds) Signal Processing and Information Technology. SPIT 2012. Lecture Notes of the Institute for Computer Sciences, Social

Informatics and Telecommunications Engineering, vol 117. Springer, Cham.  
[https://doi.org/10.1007/978-3-319-11629-7\\_22](https://doi.org/10.1007/978-3-319-11629-7_22). Scopus

5. Chawla S., Srivastava S. (2012) "A Goal based methodology for Web specific Requirements Engineering." In World Congress on Information and Communication Technologies (WICT), Nov.2012, pp. 173-178. IEEE, 2012, Published in: January 2013, ISBN: 13228725, DOI: [10.1109/WICT.2012.6409070](https://doi.org/10.1109/WICT.2012.6409070), Publisher: IEEE, Conference Location: Trivandrum, India, Scopus.
6. Chawla S., Srivastava S. (2012). "Improving web requirements engineering with goals, aspects and scenarios," *2012 Students Conference on Engineering and Systems*, Allahabad, India, 2012, pp. 1-6, <https://doi.org/10.1109/SCES.2012.6199091>, Publisher: IEEE, Added to IEEE Xplore: 14 May 2012, ISBN: 12728831, Scopus.
7. Chawla, S., Srivastava, S., Bedi, P. (2011). GOREWEB Framework for Goal Oriented Requirements Engineering of Web Applications. In: Aluru, S., *et al.* Contemporary Computing. IC3 2011. Communications in Computer and Information Science, vol 168. Springer, Berlin, Heidelberg.  
[https://doi.org/10.1007/978-3-642-22606-9\\_25](https://doi.org/10.1007/978-3-642-22606-9_25). Web of Science.
8. Srivastava, S., Chawla, S. (2010). Multifaceted Classification of Websites for Goal Oriented Requirement Engineering. In: Ranka, S., *et al.* Contemporary Computing. IC3 2010. Communications in Computer and Information Science, vol 94. Springer, Berlin, Heidelberg. [https://doi.org/10.1007/978-3-642-14834-7\\_45](https://doi.org/10.1007/978-3-642-14834-7_45). Scopus
9. Srivastava S., Chawla S. (2009). "Integrating Goals for Requirement Modeling of Web application Development", IBM I-Care Research Poster Competition, October 2009.
10. Srivastava S., Chawla S. (2007). "Techniques of Automatic Structured Data Extraction in the web: a survey" in Proceedings of National Conference on Emerging Technologies & trends in IT 2007, 1st edition, pages 298-308, Chapter 41, 2007. Proceedings Of The 2nd National Conference on Emerging Trends In Information Technology (eIT-2007),

by Amol C Goje, Pravin L Yannawar, Shivanand S Gornale (Author), Publisher: I K International Publishing House. ISBN-139788189866631.

11. Prakash N., Srivastava S. (2003), "Engineering Schema Transformation Methods", in proceedings of Engineering Methods to Support Information Systems Evolution in conjunction with OOIS'03, September 2-5, 2003, Geneva, Switzerland, C. Rolland, J. Ralyte (eds.), Universite de Geneve, EMSISE03, pp 1-14, 2003. ISBN- 3540408606, ISSN -1868-4238,
12. Prakash N., Srivastava S. (2002) "Engineering Methods for Schema Transformation: Application to XML", in proceedings of Engineering Information Systems in the Internet Context: IFIP TC8/ WG8.1 September 25-27, 2002, Kanazawa, Japan, C. Rolland, S. Brinkkemper, M. Saeki (eds.), 1-4020-7212-1, pp 153-172, 2002, Kluwer Academic Publishers, ISSN -1868-4238, DOI: [10.1007/978-0-387-35614-3\\_21](https://doi.org/10.1007/978-0-387-35614-3_21). Web of Science.

### JOURNALS

13. S Srivastava S, Varshney A, Katyal S, Kaur R, Gaur V., (2021) 'A smart learning assistance tool for inclusive education' In Journal of Intelligent & Fuzzy Systems, vol. 40, no. 6, pp. 11981-11994, IOS Press, DOI: 10.3233/JIFS-210075, ISSN 1064-1246 (P). ISSN 1875-8967 (E). SCIE
14. Chawla, S., Srivastava, S. & Bedi, P. (2017) Improving the quality of web applications with web specific goal driven requirements engineering. International Journal System Assurance Engineering and Management Vol 8 (Suppl 1), pp S65–S77, DOI: <https://doi.org/10.1007/s13198-015-0385-z>, Electronic ISSN-0976-4348, Print ISSN-0975-6809. ESCI

15. Srivastava S., Saxena RR., Gupta V. (2016). The EAOO-H Design Model for Transformation of WebGRL based Web Applications. In International Journal of Engineering Research and Application, ISSN: 2248-9622, Vol. 6, Issue 6, (Part -5), pp.94-107, June 2016. (UGC Approved)
16. Chawla, S., Srivastava, S. & Bedi, P. (2016). Goal and scenario based Web Requirements Engineering in International Journal of Computer Systems Science & Engineering, CRL Publishing ,31(1), pp 33-51,2016, ISSN-0267 6192.Scopus and UGC Care list WOS
17. Chawla, S., Srivastava, S. & Bedi, P. (2015) A Qualitative Forward Reasoning Approach for Evaluation of WebGRL Diagram, In Journal of Information and Systems Management, Volume 5, Issue 1, pp. 1-15. ISSN: 2230 – 8776
18. Srivastava S., (2015) UML Profile for the WebGRL Requirements Model and EAOOH Design Models. In International Journal of Emerging Technology and Advanced Engineering-( ISSN 2250-2459, ISO 9001:2008 Certified Journal), Volume 5, Issue 8, August 2015 pp 313-322.
19. Srivastava S., (2014) Model transformation Approach for a Goal Oriented Requirements Engineering based WebGRL to Design Models. In International Journal of Soft Computing and Engineering (IJSCE), ISSN: 2231-2307, Volume-3, Issue-6, January 2014, pp 66-75. Retrieval Number: F1990013614/2014©BEIESP.
20. Srivastava S., (2014) A Systematic Approach towards Transformation of Presentation Web Goal Oriented Requirements Language to Presentation Design Model. In International Journal of Scientific and Engineering Research, Volume 5, Issue 9, pp 7-17, ISSN 2229-5518. <https://doi.org/10.14299/ijser.2014.10.012>.

21. Chawla, S., Srivastava, S. & Bedi, P. (2014) Evaluation of Web-specific Goal oriented Requirements Language models with Quantitative reasoning. Volume 39, Issue 2, ACM Sigsoft SEN notes, March 2014. ISSN-0163-5948. <https://doi.org/10.1145/2579281.2579295>.
22. Chawla, S., Srivastava, S. & Malhotra, D. (2014). Goal Based Requirements Analysis Using WebURN. *International Journal of Computer Information Systems and Industrial Management Applications, Vol6, Issue 9*, pp. 248 – 256. ISSN 2150-7988. Retrieved from <https://cspub-ijcisim.org/index.php/ijcisim/article/view/253>
23. Srivastava, S. (2013). A Repository of Software Requirement Patterns for Online Examination System. *International Journal of Computer Science Issues- Volume 10, Issue 3, No 2, May 2013* ISSN (Online): 1694-0784 ISSN (Print): 1694-0814, pp 247-255.
24. Chawla, S., Srivastava, S. (2012). Goal oriented Requirement Analysis for Web Applications, *International Journal of Modeling and Optimization*, 2012 Vol.2(3): 192-196 ISSN: 2010-3697, DOI: 10.7763/IJMO.2012.V2.109.
25. Chawla, S., Srivastava, S. (2010). Goal Oriented Requirements Engineering for Web Applications: A Comparative Study, *International Journal of Recent Trends in Engineering and Technology*, Vol. 4, No. 2, 96-98, Nov 2010. ISSN: 2158-5563, DOI: 01. IJRTET 04.02.135.
26. Srivastava, S., Prakash, N., Sabharwal, S. (2008). A Generic Approach to Engineering Transformational Methods, in the *International Journal of Information and Management Sciences*, Tamkang University Publication, Volume 19, Number 3, pp. 455-476, 2008, ISSN:1017-1819, DOI: 10.6186/IJIMS. Scopus
27. Srivastava, S., Prakash, N. (2006) A Systematic Approach for Engineering Inter Model Transformations, in the *International Journal of Information and Management*

Sciences, Tamkang University Publication, Vol. 17 (4), pp 15-34, 2006, Republic of China, ISSN:1017-1819, DOI: 10.6186/IJIMS. Scopus

- 28.Srivastava, S., Prakash, N., Sabharwal, S. (2006). The Classification Framework for Model Transformation, in the Journal of Computer Science, Science Publications, Vol.2 (2), pp 166-170, 2006, New York, U.S.A. ISSN 1549-3636. <https://doi.org/10.3844/jcssp.2006.166.170>. Scopus

### Details of BOOKS and Chapters in BOOK

- 29.Sangeeta Srivastava, “Method Engineering in Information Systems”, National Serial Publications Pvt. Ltd., New Delhi, India, 2018, ISBN: -978-93-86611-43-7.
- 30.Sangeeta Srivastava, “A Generic CAME Tool for Atomic and Compound Methods”, National-Marshall Advertising Company, New Delhi, 2018, ISBN: - 978-81-94067-50-4.
- 31.Sangeeta Srivastava, “Inter Model Schema Transformation”, National, Serial Publications Pvt. Ltd., New Delhi, India, 2018, ISBN: 978-93-86611-56-7.
- 32.Sangeeta Srivastava, “Model transformation Mapping in Method Engineering- A Primer”, National, Serial Publications Pvt. Ltd., New Delhi, India, 2018. ISBN: - 978-93-86611-29-1.
- 33.Sangeeta Srivastava, Jayant Sharma Anju Chellani, “Informatic Practices with Python”, BR International Publishers, 2020, ISBN- 978-81-89974-688.
- 34.Book Chapter part of IFIP — The International Federation for Information Processing ,volume 103 (2002), Prakash N., Srivastava S. (2002) Engineering

Methods for Schema Transformation: Application to XML. In: Rolland C., Brinkkemper S., Saeki M. (eds) Engineering Information Systems in the Internet Context. IFIP — The International Federation for Information Processing, IFIP TC8/ WG8.1 September 25-27, 2002, Kanzawa, Japan, C. Rolland, S. Brinkkemper, M. Saeki (eds.), 1-4020-7212-1, pp 153-172, Kluwer Academic Publishers vol 103. Springer, Boston, MA. [https://doi.org/10.1007/978-0-387-35614-3\\_10](https://doi.org/10.1007/978-0-387-35614-3_10), ISBN- 978-1-4757-5149-9. Web of Science

35. Book Chapter part of Book Series as a Chapter in Advances in Intelligent Systems and Computing, vol 1165 (2020), Srivastava S., K. Bhalla, Gosain A. (2021) Systematic Analysis and Prediction of Air Quality Index in Delhi. In: Gupta D., Khanna A., Bhattacharyya S., Hassanien A.E., Anand S., Jaiswal A. (eds) Part of Book Series as a Chapter in Advances in Intelligent Systems and Computing, vol 1165. Springer, Singapore. [https://doi.org/10.1007/978-981-15-5113-0\\_1](https://doi.org/10.1007/978-981-15-5113-0_1), Pg 1-21. Aug 2020 first online print, Print ISBN 978-981-15-5112-3, Online ISBN 978-981-15-5113-0.

36. Book Chapter part of the book series: Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 117(2014), Chawla, S., Srivastava, S. (2014). A Requirements Analysis Approach for Web Engineering. In: Das, V.V., Elkafrawy, P. (eds) Signal Processing and Information Technology. SPIT 2012, LNICST, Springer, pp. 144–149. Included in the following conference series: International Joint Conference on Advances in Signal Processing and Information Technology. Part of the book series: Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 117. Springer, Cham. [https://doi.org/10.1007/978-3-319-11629-7\\_22](https://doi.org/10.1007/978-3-319-11629-7_22), Publisher Name Springer, Cham, Print ISBN 978-3-319-11628-0, Online ISBN 978-3-319-11629-7. Scopus

37. Book Chapter part of the book series: Communications in Computer and Information Science, volume 168 (2011), Chawla S., Srivastava S., Bedi P. (2011) GOREWEB Framework for Goal Oriented Requirements Engineering of Web Applications. In:

Aluru S. et al. (eds) Contemporary Computing. IC3 2011. Part of the book series: Communications in Computer and Information Science, ((CCIS, volume 168)), pp. 229–241, Springer-Verlag, Berlin, Heidelberg. [https://doi.org/10.1007/978-3-642-22606-9\\_25](https://doi.org/10.1007/978-3-642-22606-9_25), Print ISBN 978-3-642-22605-2, Online ISBN 978-3-642-22606-9, Web of Science.

38. Book Chapter part of the book series: Communications in Computer and Information Science, volume 94 (2010), Srivastava S., Chawla S. (2010) Multifaceted Classification of Websites for Goal Oriented Requirement Engineering. In: Ranka S. et al. (eds) Contemporary Computing. IC3 2010. Part of the book series Communications in Computer and Information Science, ((CCIS, volume 94)), pp 479-485. Publisher: Springer- Verlag, Berlin, Heidelberg. [https://doi.org/10.1007/978-3-642-14834-7\\_45](https://doi.org/10.1007/978-3-642-14834-7_45), Print ISBN 978-3-642-14833-0, Online ISBN 978-3-642-14834-7. Web of Science