



SLC (University of Delhi) Shyam Lal College



NAAC A++

Faculty Profile

| Title | Dr. | First Name | Seema | Last Name | Guglani | Photograph | |
|--|-----|--|-------|---|---------------|---------------|-----------------------|
| Designation | | Assistant Professor | | | | | |
| Department | | Mathematics | | | | | |
| Address | | Department of Mathematics, Shyam Lal College, Shahdara, Delhi-110032 | | | | | |
| Email | | sguglani@shyamlal.du.ac.in | | | | | |
| Web-Page | | | | | | | |
| Educational Qualification | | | | | | | |
| Degree | | Subject | | University/ College/Institution | Year | | |
| B.Sc. | | Mathematics, Computer Science, Physics | | Shivaji College | 1992 | | |
| M.Sc. | | Mathematics | | Kirori Mal College | 1994 | | |
| M.Phil. | | Mathematics | | University of Delhi | 1999 | | |
| CSIR-NET | | Mathematical Science | | | 2004 | | |
| Ph.D | | Applied Mathematics | | Jawahar Lal Nehru University | 2014 | | |
| Experience | | | | | | | |
| | | Name of the University/College/ Institute/Organisation | | Designation & Status (Permanent/Ad-hoc) | From | To | Effective time period |
| Teaching | | Moti Lal Nehru College | | Adhoc | Oct 2010 | June 2011 | |
| | | Kalindi College | | Adhoc | July 2011 | May 2012 | |
| | | Shivaji College | | Adhoc | July 2012 | May 2013 | |
| | | Shyam Lal College | | Adhoc | July 2013 | 25 March 2023 | |
| | | Shyam Lal College | | Permanent | 27 March 2023 | Till now | |
| Research/ Corporate | | | | | | | |
| Consultancy | | | | | | | |
| Teaching-Learning Process (Academic Year 2022-23 Onwards) | | | | | | | |
| Are You using ICT (LMS, E-Resources)? | | If yes, please give the details below: | | | | | |
| | | Name | | | | Total Numbers | |
| E-Resources | | Wolfram Alpha, Latex, R Statistical Software, C++ Programming Language, Swayam, Power Point Presentation | | | | | |

| | | |
|--------------------------|--|--|
| Techniques and Platforms | Mathematical Modelling, Flipped Classroom, Interactive White Board, Online Assessment Tools, Zoom, Google Meet, Google Classroom | |
| | | |

Career Advancement and Contribution to College Corporate Life (2022-23 Onwards)

| | Name of the Committee/ Centre/ Society/ Cell | Designation | From | To |
|--|---|-------------------|------|------|
| Convenor/Member of Committees | Time Table Committee | Member | 2022 | 2023 |
| | Prospectus Committee | Member | 2022 | 2023 |
| | AQAR | Member | 2022 | |
| | Girls Common Room | Member | 2023 | |
| | Garden Committee | Member | 2023 | |
| | Saraswati IKS Centre | Member | 2022 | |
| | Logistic Committee (Annual Day) | Member | 2023 | |
| | G20 Mock Summit cum Exhibition | India Team Member | 2023 | |
| | I.T. Committee(Anugoonj 24) | Member | 2024 | |
| Any Other Administrative Responsibility (Bursar, Coordinator, Superintendent etc.) | Election Committee | Member | 2023 | |
| | International Conference on Advances in Pure and Applied Mathematics (ICAPAM) Vision India@2047 | Coordinator | 2024 | |
| | | | | |
| | | | | |

Areas of Interest/Specialisation

| S.No. | Areas of Interest/ Specialisation |
|-------|-----------------------------------|
| 1 | Fuzzy Set Theory |
| 2 | Statistical database |
| 3 | Functional Analysis |
| 4 | Optimization |
| 5 | Indian Knowledge System |

Subjects Taught

| S.No. | Subject | S.No. | Subject |
|-------|-------------------------------|-------|-------------------------|
| 1 | Real Analysis | 7 | Optimization |
| 2 | Complex Analysis | 8 | Latex |
| 3 | Numerical Methods | 9 | R Statistical Software |
| 4 | Differential Equation | 10 | Computer Algebra System |
| 5 | Partial Differential Equation | 11 | Vedic Mathematics |
| 6 | Linear Algebra | 12 | C++ Programming |

Publications: Citation Index in Scopus/Web of Science or Pub Med/ Indian Citation Index

| Title of Paper | Name of the Author | Title of the Journal | Year of Publication | Citation Index | h-Index | Institutional affiliation as mentioned in the publication | Number of citations excluding self-citations | Impact factor, if any |
|----------------|--------------------|----------------------|---------------------|----------------|---------|---|--|-----------------------|
| Fuzzy | P.C. | International | 2012 | | | Jawahar Lal Nehru | | |

| | | | | | | | | |
|--|--|---|------|--|--|------------------------------|--|--|
| Statistical Dependency and Normalization in Fuzzy Statistical Database | Saxena, C.P. Katti and Seema Guglani | Journal of Intelligent Information and Database Systems | | | | University | | |
| Fuzzy Statistical Database and its Physical Organization | S. Guglani, C.P. Katti and P.C. Saxena | International journal of Database management Systems | 2013 | | | Jawahar Lal Nehru University | | |
| A Language for Fuzzy Statistical Database | S. Guglani and C.P. Katti | International journal of Database management Systems | 2013 | | | Jawahar Lal Nehru University | | |

Books and Chapters in Edited Volumes/Books published, and papers in National /International conference Proceeding per teacher during the Year

| Title of Book/Paper/ Book Chapter | Publisher | National/International | Year |
|-----------------------------------|-----------|------------------------|------|
| | | | |
| | | | |
| | | | |

Conference/ Seminar/ Symposium/ Workshop/ Presentation

| Sr. No. | National/ International/state | Topic | Presentation/Attended /Resource Person | Date | Duration | Conferences |
|---------|---|--|--|--|----------|-------------|
| 1 | National | Gender and Popular Culture: Representations and Embodiment | Attended | Dec 14 th -15 th , 2016 | 2 days | |
| 2 | International | Developing Countries and Sustainable Development: Reconnecting past with Present | Attended | March 5 th – 6 th , 2018 | 2 days | |
| 3 | International Conference on Indian Knowledge System: Integration and Internationalization | Reminiscence of Zero in Indian Mathematics | Presentation | July 14 th –15 th 2022 | 2 days | |
| 4 | International Conference on Bharatiya Business Practices A Roadmap to Future Sustainability | Fusion of Vedic Mathematics in Commerce | Presentation | April 17 th -18 th 2023 | 2 days | |
| 5 | International Conference on Indian Knowledge System: Integration and | Bharatiya Business Practices A Roadmap to Future Sustainability | Contributed as Session Chair | April 17 th -18 th 2023 | 2 days | |

| | | | | | | |
|----|---|---|-----------------|---|---------|-----------|
| | Internationalization | | | | | |
| 6 | National | Add- on- Course Module-1-Basic Mathematical Aptitude | Resource person | Oct 6 th – Nov 10 th 2023 | 35 days | |
| 7 | International Conference on Advances in Pure and Applied Mathematics (ICAPAM), Vision India@2047 | Unveiling the Mysteries of Magic Squares: Tracing Their Origins in Ancient History to Contemporary Applications in Mathematical Modelling | Presentation | Feb 8 th - 10 th , 2024 | 3 days | |
| 8 | International Conference on Advances in Pure and Applied Mathematics (ICAPAM), Vision India@2047 | Baudhayana's Geometry: Ancient Insights, Mathematical Foundations, and Contemporary Relevance | Presentation | Feb 8 th - 10 th , 2024 | 3 days | |
| 9 | International Conference on "Current Trends in Chemical Sciences for Sustainable Living". | Promoting Sustainability through the Application of Linear Programming in Chemistry Production Planning: A Review | Presentation | April 4 th -5 th , 2024 | 2 days | |
| 10 | National | Numerical Methods and Differential Equations in Computational Science | Attended | Feb 1 st - 5 th , 2011 | 5 days | Workshops |
| 11 | National | Maxima Software | Attended | August 17 th ,2012 | 1 day | |
| 12 | National | Mathematica Software | Attended | March 1 st , 2013 | 1 day | |
| 13 | National | Foundation Course on Building Mathematical Ability | Attended | Feb 1 st – 2 nd , 2014 | 2 days | |
| 14 | National | Outreach program and lab visit to CSIR-IGIB | Participated | Sep 27 th , 2018 | 1 day | |
| 15 | National | Data Analytics through R | Participated | April 8 th – 18 th , 2019 | 10 days | |
| 16 | National | E-Learning Workshop on Research Methodology | Participated | May 8 th – 15 th , 2020 | 8 days | |
| 17 | National | Tax Planning of Salaried Individuals for Financial Year 2020-21 | Participated | May 29 th , 2020 | 1 day | |
| 18 | National | R software | Participated | June 6 th - 7 th ,2020 | 2 days | |

| | | | | | |
|----|---------------|--|------------------------------|--|--------|
| 19 | National | Transforming Teaching Learning Process using ICT Tools | Participated | July 23 rd -25 th , 2020 | 3 days |
| 20 | National | A Rendezvous with the world of Animation | Member, Organizing Committee | Sep 30 th , 2021 | 1 day |
| 21 | National | A Glimpse of Activities of ISRO | Member, Organizing Committee | March 11 th , 2022 | 1 day |
| 22 | National | Seminar on भारतीय गणित की शैली | Member, Organizing Committee | Feb 16 th 2023 | 1 day |
| 23 | National | Virtual Exhibition on the 'Unsung Heroes of the Indian Nationalist Movement' | Member, Organizing Committee | Dec 1 st , 2023 | 1 day |
| 24 | National | Mathematics Day | Member, Organizing Committee | Dec 22 nd , 2023 | 1 day |
| 25 | International | Pi Day | Member, Organizing Committee | March 14 th 2024 | 1 day |
| 26 | National | Introduction on Saral Manak Sanskrit | Member, Organizing Committee | March 22 nd , 2024 | 1 day |

Research Projects/ Innovation Projects (Major Grants/Research Collaboration)

| S.No. | Title of the Project | Funding Agency | Status/Output |
|-------|--|----------------|---------------|
| | An Action based Study to Explore & Connect Select IKS in Contemporary Discourses & Practices | AICTE | Completed |

Research Guidance (Ph. D./ M. Phil.)

| | No. of Ph.D. Students | No. of M.Phil. Students |
|----------------|-----------------------|-------------------------|
| Awarded | | |
| Submitted | | |
| Under Progress | | |

Fellowships/Awards /Distinctions/Recognitions

| Year of Award | Name of the Fellowship/Award/ Distinction/ Recognition | Designation | Name of the Academic Bodies /Association | International /National/ State |
|---------------|--|-------------|--|--------------------------------|
| | | | | |

Incentive to the teachers who receive recognition/awards

| State | National | International |
|-------|----------|---------------|
| | | |

Association with the Professional Bodies

| | Name of the Organisation | Year |
|------------|--------------------------|------|
| Membership | | |
| Any Other | | |

Development of E-Learning Delivery Process/Material

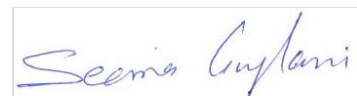
| S.No. | Title of the Module | Recognized by/Submitted at/ Delivered at any government setup |
|-------|---|---|
| | Basic Mathematical Aptitude, Basic Reasoning, | Shyam Lal College, University |

| | Intermediate Mathematical Aptitude and Intermediate Reasoning | | of Delhi | |
|--|--|--|----------|---|
| Refresher/ Orientation Programme/ FDP / Other Specialised Courses | | | | |
| S.No. | Topic | Name of the Organiser | Place | Duration and Year |
| 1 | Training Program in Computer Hardware and Maintenance | University Science Instrumentation Centre, Jawahar Lal Nehru University | Delhi | October, 25 th - 29 th 2004 |
| 2 | Course on Object Oriented Programming Using C++ | NIIT | Delhi | Two days. September 2011 |
| 3 | Course on Digital Literacy and Innovation for tomorrow's Education(D-Lite) | Campus of Open Learning & Edinburgh College, Scotland, UK | Delhi | November 18 th - 21 st , 2013 |
| 4 | FDP on Computer Algebra System and Latex | Department of Mathematics, Shyam Lal College | Delhi | Feb 16 th -17 th 2017 |
| 5 | Seminar on Information Security and Understanding Open Source Software Evolution | Department of Mathematics, Shyam Lal College | Delhi | October 9 th , 2017 |
| 6 | FDP on Advancements in Integrated Sciences: Learning and Adaptation for Effective Teaching and Research | Shyam Lal College, University of Delhi and UGC- Human Resource Development Centre, Jamia Millia Islamia and CSIR Institute of Genomics & Integrative Biology | Delhi | Dec 10 th -16 th , 2018 |
| 7 | National Seminar on Science with Lens of Scientific and Technical Terminology | Commission for Scientific & Technical Terminology, MHRD | Delhi | Jan 29 th – 30 th , 2020 |
| 8 | Webinar on Online Teaching and Learning Technology | ARSD College | Delhi | April 27 th , 2020 |
| 9 | National Webinar on Corona Crisis: An Ambedkarite perspective | ASC, Shyam Lal College | Delhi | May 12 th , 2020 |
| 10 | International Webinar on Mathematics in Industry: Challenges and Frontiers | Office of International Affairs (OIA), The Maharaja Sayajirao University of Baroda | Baroda | June 3 rd , 2020 |
| 11 | Webinar on Commodity Training | CSD, Shyam Lal College | Delhi | June 6 th , 2020 |
| 12 | Webinar on Introduction of Psychic Energy Centre(Chakras) its Meditation practice | Department of Physical Education, Shyam Lal College | Delhi | 13 th June 2020 |
| 13 | Webinar on Impact Centric Research: Funding Opportunities and Challenges in Framing Successful Research Proposal | Research Cell, Shivaji College | Delhi | July 11 th , 2020 |
| 14 | Webinar on Search, Research and Publication Ethics | Deshbandhu College | Delhi | July 24 th , 2020 |
| 15 | National Webinar on 5G Technologies: Fostering Holistic Approach for Digital Access | Banaras Hindu University | Varanasi | July 14 th – 16 th , 2020 |

| | | | | |
|----|---|---|------------------|---|
| 16 | IoT and its Practical Applications | Indira Gandhi Technical University for Women | Delhi | July 24 th – 25 th , 2020 |
| 17 | Online Short-Term course on Research and Development in Composite Materials | J.C. Bose University of Science and Technology | Faridabad | July 27 th -31 th , 2020 |
| 18 | Webinar on आज के समय में वैदिक गणित की प्रासंगिकता | Central University of Himachal Pradesh | Himachal Pradesh | Sept 3 rd , 2021 |
| 19 | FDP on Usage of ICT in Education: Challenges and Opportunities during Covid19 | Mahatma Hansraj Faculty Development Centre, Hansraj College | Delhi | July 2 nd – 15 th 2021 |
| 20 | Four Week Induction/Orientation Programme for Faculties in Universities/Colleges/Institutes of Higher Education | Teaching Learning Centre, Ramanujan College | Delhi | July 19 th – August 17 th 2021 |
| 21 | Two Week Refresher Course in Mathematics | Teaching Learning Centre, Ramanujan College | Delhi | August 31 st – Sep 14 th 2021 |
| 22 | Contributed as Resource Person in One Week Certificate Course on Vedic Mathematics | Department of Mathematics, Shyam Lal College | Delhi | Dec 15 th -22 nd Dec 2021 |
| 23 | Four Week Induction/Orientation Programme for Faculties in Universities/Colleges/Institutes of Higher Education | Teaching Learning Centre, Ramanujan College | Delhi | July 20 th - August 18 th ,2022 |
| 24 | Two Week Refresher Course in Mathematical Sciences | Teaching Learning Centre, Ramanujan College | Delhi | Sep 26 th - Oct 10 th 2022 |
| 25 | Seminar on भारतीय गणित की शैली | Department of Mathematics, Shyam Lal College | Delhi | Feb 16 th 2023 |
| 26 | Four Week Induction/Orientation Programme for Faculties in Universities/Colleges/Institutes of Higher Education | Teaching Learning Centre, Ramanujan College | Delhi | April 23 rd – May 22 nd 2023 |
| 27 | Two-week Interdisciplinary Refresher Course on "Advanced Research Methodology" | Ramanujan College, University of Delhi. | Delhi | May 22 nd -June 5 th ,2023 |
| 28 | Two weeks Refresher Course in Mathematics (Python and Vedic Mathematics) | Teaching Learning Centre, Ramanujan College | Delhi | July 13 th - 26 th , 2023 |
| 29 | Two weeks Refresher Course in Mathematics (Foundation Course in Vedic Mathematics) | Teaching Learning Centre, Ramanujan College | Delhi | Sep 1 st -14 th , 2023 |
| 30 | Teacher Summit on NEP 2020 : Role of a Teacher | Vidya Bharati Uchcha Shiksha Sanathan | Delhi | Nov 4 th ,2023 |

Declaration

I do hereby solemnly declare that the information given and the statements made by me are correct



and true to the best of my knowledge.

Dr. Seema Guglani

Signature with Full Name