




Delhi College of Arts & Commerce (University of Delhi)



Dr. Indarpal Singh

| | | | | | | | |
|--------------------|---|--------------|------------|------------|-----------|--------------|---|
| Title | Dr. | Indar | First Name | Pal | Last Name | Singh | Photograph |
| Designation | Assistant Professor | | | | | |  |
| Department | Department of Mathematics | | | | | | |
| Address (Official) | Delhi College of Arts and Commerce (University of Delhi) Netaji Nagar, New Delhi, Delhi 110023 | | | | | | |
| Phone No. | 9891500560 | | | | | | |
| Email | indarpal.singh@dcac.du.ac.in , indarpal81@gmail.com | | | | | | |

Education

| Subject | Institution | Year | Details |
|------------------|--|------|---------------------------|
| Ph.D | CCS, University Meerut UP, India University of Delhi, (Research Work) | 2014 | Mathematics |
| M.Sc | CCS, University Meerut, UP, India | 2006 | Mathematics |
| B.Sc | CCS, University Meerut, UP, India | 2004 | Maths,Phy,Chem. |
| 12 th | UP Board Allahabad, UP, India | 2001 | Maths,Phy,Chem Hindi |
| 10 th | UP Board Allahabad, UP, India | 1998 | Maths, Hin. Eng. Sci. Bio |

Career Profile

| Organisation/Institution | Designation | Duration | |
|---|---------------------|----------------------------|---|
| Delhi College of Arts and Commerce (University of Delhi) | Assistant Professor | 1/11/2022 To till date | B.Sc (H) Mathematics' B.A (P) Operational Research B.A (Prog) |
| Kalindi College (University of Delhi) | Assistant Professor | 30/7/2014 To 31/10/2022 | B.Sc (H) Mathematics' B.Sc (H) Physical Science B.A(P) |
| D.N. PG. College | Assistant Professor | 9/11/2009 To 2/4/2013 | B.Sc Mathematics M.A (Economics) |

Research Interests/Specialization

Differential Equations and Mathematical Modelling, Operational Research, Numerical Analysis, Real Analysis, Numerical Method, Transportation and Network Flow Problems, Innovation Diffusion Modelling in

Administrative Assignments / Contribution to Corporate life

- Teacher In Charge of Department of Mathematics Delhi College of Arts and Commerce University of Delhi 2nd August, 2023 to Till Dated.
- Member of the IQAC Delhi College of Arts and Commerce University of Delhi.
- Member of the Placement Cell Delhi College of Arts and Commerce University of Delhi.
- Member of the Pay- fixation Delhi College of Arts and Commerce University of Delhi.
- Convenor of Mathematics Society of NEXUS Delhi College of Arts and Commerce University of Delhi.
- Convenor of Board of paper setting for B.A (P)-Operational Research III year University of Delhi.
- Member of Board of paper setting for B.Sc (H)- III year Mathematics University of Delhi
- Member of the Delhi University Syllabus prepare for B.Sc (H)/B.A(P) under NEP-2020.
- Co-Convenor for Social Responsibility, Extension Activities, 2021.
- Member Attendance Committee (Follow up of uploading of attendance), 2021.
- Member B.A. Programme Committee – Mathematics, 2021.
- Member Committee for Coaching and Remedial Classes, 2021.
- CCTV Committee member in Kalindi College University of Delhi, 2019 to till date.
- Admission Committee B.Sc (H) Mathematics in Kalindi College University of Delhi.
- Member, Academic Programme Committee, Three Day Workshop on Vedic Mathematics, October 30- November 1, 2017
- Worked as Member, Seating and Shamiyana committee, in various events like Opening ceremony, Lehren, Annual day etc. [2014 to till date]
- Worked as Convenor/Co-convenor/Member in various discipline committees for several events in college. [2014 to till date]
- Worked as member in various committees for admission in college. [2014 to till date]
- Participant **Anterdhwani** 2014 and 2015 and Sound & Light Show in Volunteer Security.
- Observer (SOL Examination) University of Delhi
- Life Time Member of Journal of pure and Science and Technology.
- Member of INDIACom 2012. Bharati Vidyapeeth's Institute of Computer Application and Management New Delhi
- Awarded Junior Research Fellowship (JRF).
- Sinour Research Fellowship (SRF). University Grand commission Titled as “A Study of Discrete and Continuous Software reliability Growth Models (SRGMs).
- Life Time Member of Society for Reliability Engineering, Quality and Operations Managements

(SREQOM)

Teaching Experiences (Subject/Courses taught)

Pure Mathematics, Applied Mathematics
Linear Programming, Mathematical Programming
Marketing Research, Marketing Management
Population Studies, Software Reliability, Business Mathematics.
B. Sc.(H) Mathematics, B. Sc. (Physical. Science). I, II, III Yr.
B. A. Programme. I, II, III Yr.

Publication (Peer Reviewed/Indexed Journals)

| Year of Publication | Title | Journal (Name of the journal. Vol Issue ISSN) | Co-Author |
|---------------------|---|---|--|
| 2024 | Multi-stage Multi-generation based product Adoption; An Analysis using Numerical Methods | Elsevier Scopus Vol. 31 No-2 (2024): Nonlinear Studies (NS) https://www.nonlinearstudies.com/index.php/nonlinear/article/view/3608 | Deepti aggarwal Prof. Ompal Singh Dr. Adarsh Anand |
| 2023 | Modifying the Variability in the Investigation of Software Matrices and Reliability | International Conference on Advances in Pure and Applied Mathematics (ICAPAM) 2024 | Dr. Arvind Kumar Prof. Pankaj Garg |
| 2023 | Duality results for multi-objective symmetric programming problem with (F, G_f) -convexity | International Conference on Advances in Pure and Applied Mathematics (ICAPAM) 2024 | Prof. Pankaj Garg Dr. Arvind Kumar |
| 2022 | Exploring Software Systems Engineering through Complexity of code changes; A study based on Bugs count, Features Important and Now Add-One” | Reliability Engineering for Industrial Processes. Springer Series in Reliability Engineering, First online 23th April 2024 pp- 65-79 | Prof. Ompal Singh Dr. Adarsh Anand Asha Yadav |
| 2017 | Software Metrics, Reliability and its release resources | National seminar on Recent Developments, in Mathematics (Sponsored by UGC) organized by Department of Mathematics, kalindi College University of Delhi January 12-13, 2017. | Dr. Ompal Singh |
| 2012 | “A Study of flexible Software Reliability Growth Models in Continuous and Discrete frame” | International Transaction in Mathematical Science and Computer Vol. 5 Page 25- 36 January to June- 2012. | Dr. Ompal Singh, Dr Jagvinder Singh |
| 2012 | “A Flexible Reliability Growth Models for Various release of Software Under the Influence of Testing Resources.” | Journal of pure And Science and Technology Vol. 2(2), pp. 14- 25, 2012. | Dr Jagvinder Singh. Dr. Adersh Anand |
| 2012 | “Software Matrices and Reliability” | International Journals for | Dr. Adersh Anand |

| | | | |
|------|--|--|-------------------------------------|
| | | IndiaCom-2012 Computer Application and Management New Delhi pp. 251-254, 2012. | Dr. Ompal Singh |
| 2012 | “On the Development of Software Reliability Growth Models based on Feature Enhancement.” | ” Journal of Pure and science and Technology Vol. 1(1), pp. 23-31, 2012. | Dr Jagvinder Singh. Deepty Aggrweal |

Book Author

| | | | |
|------|-----------------------------|--|--|
| 2024 | Numerical Method & Analysis | Published by ‘Sultan Chand & Sons’ year 2024-25, ISBN 978-93-91820-83-1. | Prof. Chaitanya Kumar Dr. harinderjit |
|------|-----------------------------|--|--|

Research Guidance

| |
|--|
| <ul style="list-style-type: none"> ➤ Under Graduate Research Project Funded by Kalindi College, Submitted on 30 March 2022 “Marketing Research and Management”. [Student Investigators: Total 10], 2021. ➤ Under Graduate Research Project Funded by Kalindi College, submitted on 30 March 2021, “A Study on Differential Equation used in Daily Life”. [Student Investigators: Total 10] ➤ Under Graduate Self-funded Research Project, Submitted on Kalindi College, Submitted on July, 21, 2019 on “PROCESS MANAGEMENT OF PLASTIC PRODUCTS” [Student Investigators: Total 8] ➤ Under Graduate Research Project Funded by Kalindi College, University of Delhi, Submitted on 2017-18, “Functions of Numerical Analysis and Quantitative Analysis.” [Student Investigators: Total 10] |
|--|

Seminar/Workshop/Conferences Presentation/Organisation

| |
|---|
| <ul style="list-style-type: none"> ➤ Certificate of paper presentation in an International Conference on “ Advances in Pure and Applied Mathematics” organized by Shyam Lal College, University of Delhi from Feb 8, 2024 entitled ‘Modifying the Variability in the Investigation of Software Matrices & Reliability’. ➤ FDP attended from July 01, 2024 to July 07, 2024 on IKS organized by Aryabhata College, Ministry of Education, Govt. of India ➤ Attended one day seminar at ARSD, College held on June 28, 2024, entitled Awareness of Criminal Law. ➤ Attended one week Online National Workshop on Mathematical Modelling with Simulations in Applied Science (MMWSAS-2023) to be organized by the Department of Mathematics, Central University of Haryana, Manendergarh During 22th -26th May, 2023. ➤ Two Week online Faculty Development Program (FDP) on “MOOC’s E-Content Development Research Methodology and Statistical Tools in Open Education Word’ organized by Kalindi College University of Delhi, in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College University of Delhi, held from 3 rd August-17th August 2021. ➤ Faculty Development Program (FDP) on “Data Analysis using Statistical Tools” organized by Jaypee Business School, a constituent of Jaypee Institute of Information Technology, Noida from 13-18 September, 2021. ➤ One Month’s One line FIP-29 “Faculty Induction / Orientation Program” organized by Ramanujan College held on 21 Nov To 20 December 2022. Organized by Teaching Learning Centre, Ramanujan College University of Delhi, under the Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching. |
|---|

- **5-Day Lecture Series “ANVESHAN”** on the Occasion “**National Mathematics Day**” organized by Department of Mathematics SRMS College of Engineering and Technology Bareilly held from **20-24 December 2021**.
- **Two Week online Workshop** on “**Vedic Mathematics**” organized by Shiksha Sanskriti Utthan Nyas New Delhi, Mahatma Hansraj Faculty Development Centre Hansraj College University of Delhi, held from **2th- 13th December 2021**.
- **Faculty Development Program (FDP)** on “**Data Analysis using Statistical Tools**” organized by Jaypee Business School, a constituent of Jaypee Institute of Information Technology, Noida from **13-18 September, 2021**.
- **Two Week online Faculty Development Program (FDP)** on “**MOOC’s E-Content Development Research Methodology and Statistical Tools in Open Education Word**” organized by Kalindi College University of Delhi, in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College University of Delhi, held from **3rd August-17th August 2021**.
- **Faculty Development Program (FDP)** on “**BLOCKCHA IN TECHNOLOGIES AND APPLICATIONS (BCT-2020)**” organized by Department of Computer Science and Engineering and Information Technology, Jaypee Institute of Information Technology, Noida From **Dec 28, 2020- Jan 2, 2021**.
- **Faculty Development Program (FDP)** on “**Innovation in Scientific Research Methods**” organized under the aegis of DBT Star College Scheme 2019-2022 Kirori Mal College University of Delhi, held from **14th -18th October, 2020**.
- **Workshop:** Empowering Teaching through Online Mode Jawaharlal Nehru University, New Delhi (JNU-WETOM IV) on the theme ‘Going Online: Classroom, Field Work & Research’ held on **July 11-12, 2020**.
- **Workshop:** “Online Assessment and Evaluation” (JNU-WETOM III) organized by Jawaharlal Nehru University, New Delhi India,’ held on **July 13-14, 2020**.
- **International Conference** (online) on “**Emerging Trends in Vedic Mathematics & Applications in Science, Technology and Social Science Research (ETVM-ASTSSR-2020)**” organized by Jawaharlal Nehru University, New Delhi India, held on **August 16-17, 2020**.
- **International Web Conference** on Recent Advances in Science (IWCRAS 2020) organization DONBOSCO College TURA, held on **30th and 31st of July, 2020**.
- **International Virtual Conference** “**Novel Corona and Novel Challenges: Life Ahead with Covid-19**” organized by UGC Cell Sri Guru Gobind Singh College Chandigarh, held on **03 June, 2020**.
- **A National Level 3 Day Virtual Faculty Development Program** on “**MOVING TO MASTER SCIENCE IN TECHNOLOGY (MMST: 2020)**” organized by Freshmen Engineering Department from **18th -20th June 2020**.
- **A National Level Online Faculty Development Program** on “**Innovation and Research Opportunities for Faculty in the New Normal**” organized by Research & Development Cell Women’s Christian College Chennai India from **5th June 2020**.
- **Workshop:** Empowering Teaching through Online Mode Jawaharlal Nehru University, New Delhi (JNU-WETOM IV) on the theme ‘Going Online: Classroom, Field Work & Research’ held on **July 11-12, 2020**.
- **Workshop:** “Online Assessment and Evaluation” (JNU-WETOM III) organized by Jawaharlal Nehru University, New Delhi India,’ held on **July 13-14, 2020**.
- **International Conference** (online) on “**Emerging Trends in Vedic Mathematics & Applications in**

Science, Technology and Social Science Research (ETVM-ASTSSR-2020)” organized by Jawaharlal Nehru University, New Delhi India, held on **August 16-17, 2020**

- **International Web Conference** on Recent Advances in Science (IWCRAS 2020) organization DONBOSCO College TURA, held on **30th and 31st of July, 2020.**
- **International Virtual Conference** “Novel Corona and Novel Challenges: Life Ahead With Covid-19” organized by UGC Cell Sri Guru Gobind Singh College Chandigarh, held on **03 June, 2020.**
- **IQAC ORGANIZED** “Training Sessions for Teaching & Non-Teaching Staff” at Kalindi College University of Delhi, India on **11th June, 2020.**
- **4th International Conference** on Quality, Reliability and Infocom Technology (ICQRIT) Trends & future Direction, **December 18- 20, 2009.**
- Seminar on Mathematical Modelling and Applications Department of Mathematics Kamala Nehru College, University of Delhi **25th March 2011.**
- **Workshop** on Mathematical Modeling and related Optimization Techniques New Delhi, **December 14-17, 2009.**
- **6th International Conference** on Quality Reliability, Infocom Technology and Industrial Technology Management (ICQRITITM) New Delhi, **2012.**
- **International Conference** on Recent Trends in Materials and Devices (ICRTMD) Amity institute of Applied Science Amity University Uttar Pradesh, **2013.**
- **National Workshop/Seminar** “Position and Challenges of Printed Media in the era if Internet.” Department of Hindi, Aditi College University of Delhi, **October 7- 10, 2013.**
- **7th International Conference** on Quality Reliability, Infocom Technology and Business Management (ICQRITBM) New Delhi, **2015.**
- **National seminar** on Recent Developments, in Mathematics (Sponsored by UGC) organized by Department of Mathematics, kalindi College University of Delhi **January 12-13, 2017.**
- Ompal singh, Jagvinder Singh, V.K.Sharma, Indarpal Singh, “A Study of flexible Software Reliability Growth Models in Continuous and Discrete frame”.Accepted for Publications in the proceeding of the 6th International Conference on Quality reliability , Infocom technology and industrial Technology Management (ICQRITITM) New Delhi, **2012.**
- Ompal Singh, Jagvinder Singh, Adarsh Anand, Indarpal Singh, “Software Matrics and Reliability”. In the Proceeding of the 6th national conference INDIACom, 2012, Eds Prof. M.N.Hoda, Bharati Vidyapeeth’s Institute of Computer Application and Management New Delhi pp. 251-254, **2012.**
- **International Seminar** organized by Department of Information Technology on “Internet of Things with cloud Computing & Big Data on Date- **15th April 2016.**
- **Workshop of Computational Optimization One Day** Sri Venkateswara College University of Delhi. Date on **February- 05/2016.**
- **National Workshop** on Skill development Workshop on latex and spss, organized jointly by Mathematics and Computer Science Department Kalindi College (university of Delhi) **24th -25th October, 2016.**
- **National Workshop** on Mathematical Modelling and Computational Techniques using Mathematica organised by Department of Mathematics, Zakir Husain Delhi College (University of Delhi), **30-31 March 2017.**
- **National seminar** on Recent Developments in Mathematics (Sponsored by UGC) organized by Department of Mathematics, kalindi College University of Delhi **January 12-13, 2017.**
- Presented a paper entitled as “A Multi-up gradation SRGM with Uncertainty of Random Operating

Environments” in international conference on “Quality, Reliability, Infocom Technology and Business Operations Trends and Future Directions.” Organised by Department of Operational Research, University of Delhi SREQOM and Lulea University of Technology, Sweden held on **27-29 December 2018**, at University of Delhi, Delhi, India.

- Invited Talk on “Software Quality Predictive Modeling Using Machine Learning: Present and Future” in international conference on “Quality, Reliability, Infocom Technology and Business Operations Trends and Future Directions.” Organised by Department of Operational Research, University of Delhi SREQOM and Lulea University of Technology, Sweden held on **27-29 December 2018**, at University of Delhi, Delhi, India.
- Participated in national seminar on “*Career Counseling*”, Organised by *Department of Journalism, Kalindi College* held on **27th February 2019**, at *Kalindi College, University of Delhi, Delhi*.
- Chair of Session “Software Reliability Quality, Infocom Technology & Business Operations” in international conference on “Quality, Reliability, Infocom Technology and Business Operations Trends and Future Directions.” held on **27-29 December 2018**, at University of Delhi, Delhi, India.

Awards & Distinctions

- Ministry Of Finance (Government of India) Central Board of Direct Taxes provided the certificate of Appreciation has paid Taxes for the Assessment Year 2019-20. Award.
- Won Volleyball Kalindi College University of Delhi, Feb. 2020.
- Won Cricket Match Kalindi College University of Delhi, January, 2018.
- Won Cricket Match Kalindi College University of Delhi, January, 2015.
- Won Badminton, (first Runner). Kalindi College University of Delhi
- Best Fielder Cricket Aboard, And Best Runner in Kalindi College University of Delhi 2015.
- Best Fielder Cricket Aboard 2016. Kalindi College University of Delhi
- Active member of NSS 2015 to till dated.

Public Service/ University Service/ Consulting Activity

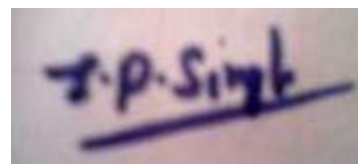
- Anterdhwani 2014 and Sound & Light Show in Volunteer Security. University of Delhi.
- Anterdhwani 2015 and Sound & Light Show in Volunteer Security. University of Delhi.
- Members of INFM Committees Kalindi College University of Delhi
- Members of Adopt a Plant of Tree Kalindi College University of Delhi

Professional Societies Memberships

- Life Time Member of Journal of pure and Science and Technology.
- Member of INDIACom2012.Bharati Vidyapeeth’s Institute of Computer Application and Management New Delhi Awarded Junior Research Fellowship (JRF).Sinour Research Fellowship
- Life Time Member of Society for Reliability Engineering, Quality And Operations Managements (SREQOM)

Projects (Major Grants / Collaborations)

- Under taken the following Research Project as Principal Investigator Project Code: 01/2017 Project Title: “Functions of Numerical Analysis and Quantitative Analysis” Funding Agency: Kalindi College, University of Delhi, Allocated Amount: Rs 6, 000/-
- Undertaken the following Research Project as Principal Investigator Project Code: 02/2018 Project Title: “Process Management of Plastic Products”. Funding Agency: Kalindi College, University of Delhi, Allocated Amount: Rs 9,000/-
- Under Graduate Research Project Funded by Kalindi College, submitted 2021, “A Study on Differential Equation used in Daily Life.” Funding Agency: Kalindi College, University of Delhi, Allocated Amount: Rs 9,000/-
- Under Graduate Research Project Funded by Kalindi College, submitted on **30 March 2022** “Marketing Research and Management”. [Student Investigators: Total 10], **2021**. Funding Agency: Kalindi College, University of Delhi, Allocated Amount: Rs 9,500/-



(Dr. Indarpal Singh)

Assistant Professor

Delhi College of Arts and
Commerce (University of Delhi)

Indarpal.singh@dcac.du.ac.in

9891500560