Title	**Dr**.	First Name	**YOGENDER**	Last Name	**SINGH**	Photograph
Designation		**Associate Professor**				
Address ; Office		**Department of Mathematics** **Aryabhatta College** **University of Delhi**				
Phone No	Office					
	Residence					
Mobile		**+91-9871759028**				
Email		**yogendersingh@aryabhattacollege.ac.in** **aeiou.yogi@gmail.com**				
Web-Page						

Educational Qualifications

Degree	Institution	Year
Ph.D.	University of Delhi	2014
M.Sc.	Indian Institute of Technology, Kanpur	2005
B.Sc.	Kurukshetra University	2003

Awards and Distinctions

- **CSIR: NET - JRF** June 2005.

- **G.A.T.E.-Mathematics**, 2005 All India Rank (AIR) - 40, Percentile - 97.65.

Career Profile

Associate Professor, Department of Mathematics, Aryabhatta College, University of Delhi, from 14.08.2024 – todate.

Assistant Professor, Department of Mathematics, Aryabhatta College, University of Delhi, from 23.07.2012 – 13.08.2024.

Administrative Assignments

- **Assistant Coordinator** IGNOU: Aryabhatta College, 2018.

- **Deputy Superintendent Examination**: Aryabhatta College, May-June 2018 and Nov-Dec 2018.

- **Convener Time-Table committee**: Aryabhatta College, 2016-17, 2017-18, 2019-20, 2020-21, 2021-22, 2022-23, 2023-24, 2024-25.

- **Teacher-In Charge**: Department of Mathematics, Aryabhatta College, 2016-17.

As assigned by the College/Department from time-to-time.

Areas of Interest / Specialization

Optimization: Optimal Control Theory

Subjects Taught

B.Sc(Hons): Calculus, Differential Equations, Probability and Statistics, Mathematical Finance

Research Guidance

Research Papers in Peer Reviewed Journals/Books/ Refereed Conferences Proceedings

- Dr. Mukesh Bansal, Dr. Remica Aggarwal, **Dr. Yogender Singh,** "On an Attempt to Establish the Inter-relationships amongst the Benefactors of Forest therapy through ISM Methodology", *International Journal of Computer Applications* (0975 – 8887) Volume 185 – No. 4, April 2023.

- Dr. Remica Aggarwal, **Dr. Yogender Singh,** Dr.Veena Aggarwal, "On Studying the Hierarchy of Interrelationships amongst the Essential Skills for Successful Implementation of Inclusion in K Curriculum of Schools", *International Journal of Computer Applications* (0975 – 8887), Volume 175 – No. 39, pp. 1-6, December 2020.

- **Dr. Yogender Singh,** Dr. Vinod Kumar Aggarwal, Dr. Remica Aggarwal, "On Exploration of Various Factors Affecting the Appropriate Selection of Movies for Teaching of School and Undergrads Students and Studying the Mix of Relationships amongst Them", *International Journal of Management and Applied Science*, ISSN: 2394-7926, Volume-6, Issue-9, pp. 44-49, Sep-2020.

- Dr. S. P. Singh, **Dr. Yogender Singh,** Dr. Remica Aggarwal, "On an Attempt to Study the Possible Mix of Hierarchical Relationships amongst the Problems Faced by Asian Street Food Vendors", *International Journal of Management and Applied Science*, ISSN: 2394-7926, Volume-6, Issue-9, pp. 32-38, Sep-2020.

- Dr. Divya Nair, **Dr, Yogender Singh,** Dr. Remica Aggarwal, Dr. Lakshay Aggarwal, "On studying the inter-relationship amongst the facilitating factors for clinical reasoning of occupational therapy", *Edited Book*: Digitalisation and Innovations in Business, pp. 228-235, ISBN: 9788194481317.

- **Dr. Yogender Singh,** Prof. P.C. Jha, Dr. Remica Aggarwal, Dr. Lakshay Aggarwal, "On an attempt to study the inter-relationship amongst various challenges faced by Sports Scientists and Sports Analytics in developing countries", *Edited Book*: Digitalisation and Innovations in Business, pp. 236-244, ISBN: 9788194481317.

- **Dr. Yogender Singh,** Dr. Remica Aggarwal, Dr. Lakshay Aggarwal, Dr. V. K. Aggrarwal, "Studying the Complex Inter-relationships amongst various SNA Metrics and SEA Metrics using ISM Methodology", *International Journal of Computer Applications* (0975 – 8887) Volume 176 – No. 30, pp. 28-35, June 2020.

- **Dr. Yogender Singh,** Dr. Lakshay Aggarwal, Dr. Remica Aggarwal, "On an Attempt to Explore the Possible Challenges Faced by Upcoming and Established Photography Content Writers in India", *International Journal of Computer Applications* (0975 – 8887) Volume 176 – No. 25, pp. 7-11, May 2020

- **Dr. Yogender Singh,** Dr. Remica Aggarwal, Dr. V. K. Aggrarwal, Dr. Lakshay Aggarwal, "An Attempt to Explore the Various Challenges and Success Factors in Performing Arts Sector in India", *International Journal of Computer Applications* (0975 – 8887) Volume 176 – No. 25, pp. 1-6, May 2020.

- **Dr. Yogender Singh,** Dr. V. K. Aggrarwal , Dr. Lakshay Aggarwal, Dr. Remica Aggarwal, "On Studying the Inter-relationships Amongst the Various Driving Criteria for

Studying the Driving Behavior in India", *International Journal of Computer Applications* (0975 – 8887) Volume 176 – No. 20, pp. 42-45, May 2020.

- **Dr. Yogender Singh,** Dr. Mukesh Bansal , Dr. Lakshay Aggarwal, Dr. Remica Aggarwal, "An Attempt to Explore the Spiritual Meditation Philosophy and Studying the Interrelationships amongst Various Challenges towards Adoption of Spiritual Metrics due to Nature of Spirituality", *International Journal of Computer Applications* (0975 – 8887) Volume 176 – No. 19, pp. 6-11, May 2020.

- **Dr. Yogender Singh,** Dr. Remica Agarwal, Dr. Viraj Voditel, "On Exploration of Various Success Factors and Challenges for Handloom and Carpet Weaving Textile Sector in India", *International Journal of Computer Applications* (0975 – 8887) Volume 177 – No. 32, pp. 26-35, January 2020.

- Dr. Deepti Rani, **Dr. Yogender Singh**, "Managing Pollution – Emergent need in Urban Cities (with special reference to NCR region)", *International Journal of 360 Management Review*, ISSN: 2320-7132, Vol. 07, Issue 01, pp. 457-468, April 2019.

- **Yogender Singh**, Prerna Manik, Kuldeep Chaudhary, "Optimal Production Policy for Multi-Product with Inventory-Level-Dependent Demand in Segmented Market", *Yugoslav Journal of Operations Research*, Vol 23 No. 2 pp. 237-247, ISSN print: 0354-0243 ISSN online: 2334-6043, 2013.

- **Yogender Singh**, Kuldeep Chaudhary, P. C. Jha, "Optimal Advertising and Pricing Policies of Successive Generations of Product in Segmented Market", *International Journal of Computational Intelligence Studies*; Vol.2 No.2 pp. 113-132. ISSN online: 1755-4985, ISSN print: 1755-4977, 2013.

- Kuldeep Chaudhary, **Yogender Singh**, P.C .Jha, "Optimal Control Policy of a Production and Inventory System for multi-product in Segmented Market", *Ratio Mathematica*; Vol. 25, pp. 29-46, ISSN online: 2282-8214, ISSN print: 1592-7415, 2013.

- Prerna Manik, Kuldeep Chaudhary, **Yogender Singh**, P. C. Jha, "Optimal Promotional Effort Control Policy for Segment Specific New Product Growth", *Advances in Intelligent system and Computing, Springer Link*, Vol. 202, Chapter no. 30, pp. 347-358, 2013; ISBN: 978-81-322-1040-5 (Print) 978-81-322-1041-2 (Online), 2012.

- Sugandha Aggarwal, **Yogender Singh**, Anshu Gupta, P.C. Jha, "Promotional Resource Allocation for a Product Incorporating Segment Specific and Spectrum Effect of Promotion", *Advances in Intelligent system and Computing, Springer Link*, Vol. 202, Chapter no. 37, pp. 429-442, 2013; ISBN: 978-81-322-1040-5 (Print) 978-81-322-1041-2 (Online), 2012.

- P.C. Jha, Anshu Gupta, **Yogender Singh**, "Promotional Allocation Problem for a Multi-Generational Product in Segmented Market", *Advances in Intelligent and soft Computing, Springer Link*, Vol. 130, Chapter no. 89, pp. 957-970, 2011; ISSN: 1867-5662, ISBN: 978-81-322-0490-9

- **Yogender Singh**, Kuldeep Chaudhary, P.C. Jha, "Optimal Control Policy for Advertising and Pricing of Two Generation Durable Product in Segmented Market", *Proceedings of the IEOM 2012,* pp. 1752-1759, 2012; ISBN: 978-0-9855497-0-1, July 2012.

- **Yogender Singh**, Kuldeep Chaudhary, P.C. Jha, "Optimal Production Policy of

Production System with Inventory-level-dependent demand in Segmented Market", *Proceeding of the 2011 IEEE-IEEM*, Singapore, pp.357-361, 2011; ISSN: 2157-3611, ISBN online: 978-1-4577-0738-4, ISBN print: 978-1-4577-0740-7

- Kuldeep Chaudhary, **Yogender Singh**, P.C. Jha, "Optimal control policy of a production and inventory system for deteriorating items in segmented market", *Proceedings of the IEOM 2011*, pp. 1009-1015, 2011; ISBN: 978-0-9808251-0-7, Jan 2011.

Conference Organization/ Presentations

Conference Presentation/Participation

- "A study of impact of relative humidity and temperature on Air Pollutants using Multiple Regression Analysis", at the International Conference on Sustainable Development and The World Economy, organized by Department of Commerce, Janki Devi Memorial College, University of Delhi, Feb 4-5, 2019.

- "Promotional Resource Allocation for a Product Incorporating Segment Specific and Spectrum Effect of Promotion", at the Seventh International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA 2012), organized by ABV-Indian Institute of Technology and Management Gwalior, Dec 14-16, 2012

- "Development of an EOQ Model for Single Source & Destination, Deterioration Products Incorporating Price & Freight Discount under Fuzzy Environment" at the IEEM 2012 organized by IEEE TCM Singapore Chapter, IEEE Singapore Section and IEEE SMC Hong Kong Chapter, Hong Kong, Dec 10-13, 2012

- "Optimal Duration and Control of Promotional Campaign for Durable Technology Product", at the IEEM 2012 organized by IEEE TCM Singapore Chapter, IEEE Singapore Section and IEEE SMC Hong Kong Chapter, Hong Kong, Dec 10-13, 2012

- "Promotional Resource Allocation for a Product Incorporating Segment Specific and Spectrum Effect of Promotion Considering Repeat Purchase Behavior of Adopters" at the International Conference on Optimization Modelling and Applications, organized by Operational Research Society of India Delhi Chapter, Nov 29-Dec 01, 2012

- "Optimal Control Policy for Advertising and Pricing of Two Generation Durable Product in Segmented Market", at the IEOM 2012 organized by Industrial Engineering and Operations Management (IEOM) Forum, Istanbul, Turkey, July 03-06, 2012

- "Multi source-multiple destination EOQ model for constant deteriorating items incorporating quantity and freight discount policies" at the IEOM 2012 organized by Industrial Engineering and Operations Management (IEOM) Forum, Istanbul, Turkey, July 03-06, 2012

- "Multi Item two stage EOQ model from single source to multiple destinations under varying freight policies" at the IEOM 2012 organized by Industrial Engineering and Operations Management (IEOM) Forum, Istanbul, Turkey, July 03-06, 2012

- "Promotional Allocation Problem for a Multi-Generational Product in Segmented Market", at the International Conference on "Soft Computing for Problem Solving (SocPros 2011)", organized by The Institute of Engineers (India), IITR Campus,

Roorkee, Dec 20-22, 2011

- "Optimal Advertising and Pricing Policy for Two Generation Durable Product", at the National Conference on "Mathematical and Statistical Modeling in Innovative Areas", organized by Department of Mathematics, Birla Institute of Technology, Mesra, Ranchi, Jharkhand, Oct 19-20, 2011

- "Optimal Production and Inventory Policies in Segmented Market", at the the International Congress on Productivity, Quality, Reliability, optimization and modeling(ICPQROM)jointly organized by Indian Statistical Institute, Quality Council of India and Defence Research and Development Organization, Indian Habitat Centre, New Delhi, Feb 07-08, 2011

- "An Optimal Control theory Approach to Production and Inventory System in Segmented Market", at the International conference on "Development and Applications of Statistics in Emerging Areas of Science and Technology(ICDASEAST) along with XXX Annual Convention of Indian Society for Probability and Statistics", organized by Department of Statistics, University of Jammu, Dec 8-10, 2010

- "Optimal production and inventory policy of Multi-Products in segmented market", at the International Conference on Statistics, Probability, Operational Research, Computer Science and Allied Areas in Conjunction with VIII International Indian Statistical Association Joint Statistical Meeting and XXIX Annual Convention of Indian Society for Probability and Statistics organized by Department of Statistics, Andhra University, Visakhapatnam, India, Jan4-8,2010

- "Optimal Control Policy of A Production and Inventory System for Deteriorating Items in Segmented Market", at the International Conference on 'Operations Research for A Growing Nation' Organized by Department of Statistics, Sri Venkateswara University, Tirupati; Department of OR & SQC, Rayalaseema University, Kurnool, Operational Research Society of India, Tirupati Chapter, AP, Dec 15-17, 2008

- "The Legacy of Srinivasa Ramanujana" International Conference, organized by University of Delhi, New Delhi, Dec 17-22, 2012.

- "National Meet on History of Mathematical Sciences" organized by Department of Mathematics, University of Delhi, Jan 7 – 9, 2010.

- "Pre-ICM International Convention on Mathematical Sciences" organized by Department of Mathematics, University of Delhi, Dec 18 – 20, 2008.

Participation in Workshops/ Training Programme

- "**Faculty Development Programme** for Office Automation Documentation for NAAC and Effective Communication", organized by Department of IQAC, Sri Guru Nanak Dev Khalsa College, University of Delhi, Jan 4-6, 2019.

- "**Workshop** on Computation Optimization", organized by Department of Mathematics, Sri Venkateswara College, University of Delhi, Feb 05, 2016

- "**Workshop** on Trans-disciplinary Training in Foundation Courses (studio/virtual/class)", organized by UGC-ASC Centre for Professional Development in Higher Education, University of Delhi, May 07 - 13, 2014.

- "**Workshop** on Foundation Course: Building Mathematical Ability", organized by UGC-ASC Centre for Professional Development in Higher Education, University of Delhi, June 18 – 20, 2013.
- "**Workshop** on Methodology of Teaching Science and Mathematics to students with Vision Impairment", organized by UGC-ASC Centre for Professional Development in Higher Education, University of Delhi, July 18 – 19, 2013.
- "**Training Programme** on Optimization and Its Applications" organized by organized by Operational Research Society of India Delhi Chapter, Nov 26 – Dec 01, 2012.
- "**Workshop** on Mathematical Modeling and Related Optimization Techniques", jointly organized by Society for Reliability, Engineering, Quality and Operations Management and Department of Operational Research, University of Delhi, India , Dec 14-17,2009.
- "**Workshop** on Recent Advances in Decision Support Models and their Applications", Tirupati, India, Dec10-14, 2008.

Refresher Course/Faculty Development Programme

- Two Weeks online "REFRESHER COURSE IN APPLICABLE MATHEMATICS" conducted by Teaching Learning Centre, Ramanujan College University of Delhi. In collaboration with Department Of Mathematics Sri Jayachamarajendra College of Engineering (SJCE) JSS Science and Technology University (JSS S&TU), Mysuru, 26-July-2022 to 08-August-2022
- Two-Week Online Subject Refresher Course on "Mathematics & Statistics" conducted by UGC-HRDC, GJUS&T, Hisar, Jan 14, 2021 to Jan 27, 2021.
- Two weeks' Faculty Development Program on "ICT Based New Paradigms of E-Teaching and E-Learning : Digital Pedagogy" organized by Department of Computer Science, Mata Sundri College for Women University of Delhi In Collaboration with Pandit Madan Mohan Malviya National Mission on Teachers and Teaching Teaching Learning Centre,Ramanujan College, Sept 15, 2020 - Sept 30, 2020.
- 3 weeks Refresher Course in "Mathematical Science" organized by UGC-HRDC Centre for Professional Development in Higher Education, University of Delhi, June 06 - 27, 2017.

Orientation Programme

- "26th Orientation Programme (4 weeks)" organized by UGC – Human Resource Development Centre, B.P.S. Mahila Vishavidyalaya, Khanpur Kalan (Sonepat), Nov 15 – Dec 12, 2016.

Research Projects (Major Grants/Research Collaboration)

Association With Professional Bodies

Other Activities