Title	DR.	First Name	NARAYAN	Last Name	SINGH	Photograph
Designation	**ASSISTANT PROFESSOR**					
Address	**Department of Mathematics, Acharya Narendra Dev College, Govindpuri, Kalkaji, New Delhi, Delhi- 110019.**					
Phone No Office	**011-26294540**					
Residence	**9 D, Astha Apartment, Pocket-1, New Kondali, MIG, Mayur Vihar Phase-3, New Delhi-110096**					
Mobile	**8800186199**					
Email/ Web-Page	**narayansingh@andc.du.ac.in**					

Educational Qualifications

Degree	Institution	Year
Ph. D.	**C.C.S. University Meerut, U. P. India** **Optimization of Some Mathematical Models for Multi-Echelon Supply Chain System**	**2018**
M. Phil.	**Vinayaka Missions University Directorate of Distance Education, Salem, Tamilnadu**	**2009**
M. Sc.	**Bundel Khand University Jhansi, U. P.**	**2002**
B. Sc.	**Bundel Khand University Jhansi, U. P.**	**2000**
NET (JRF)	**CSIR New Delhi**	**June 2007**

Career Profile

- ❖ From August 01, 2015 to till date - Assistant Professor, Department of Mathematics, Acharya Narendra Dev College (University of Delhi).
- ❖ From July 2002, I have worked in different non-government educational organisations.

Administrative Assignments

- ❖ Working as a Member in **Proctorial Committee** at Acharya Narendra Dev College, University of Delhi
- ❖ Working as a Member in **Cultural Event Committee** at Acharya Narendra Dev College, University of Delhi
- ❖ Working as a Member in **Sport Committee** at Acharya Narendra Dev College, University of Delhi
- ❖ Worked as a Member in **Placement Cell** at Acharya Narendra Dev College, University of Delhi
- ❖ Worked as a Member in **Admission** at Acharya Narendra Dev College, University of Delhi
- ❖ Worked in College ranking Committee at Acharya Narendra Dev College, University of Delhi

Areas of Interest / Specialization

- ❖ Inventory Control

❖ Supply Chain Management

Subjects Taught

- ❖ Complex Analysis
- ❖ Metric Space
- ❖ Numerical Method
- ❖ Differential Equations
- ❖ Lineal Algebra
- ❖ Abstract Algebra
- ❖ Latex, HTML Mathematica

Research Guidance

Publications Profile

Research Papers Published in the National &International Journals

1. Narayan Singh (2020). **Three Level Coordination under Three Level Permissible Delays in Payments with Variable Rate of Demand and Production in a Supply Chain System**, **Vol. 13, No. 1-2, pp. 11-22.** *International Transactions in Mathematical Sciences and Computer***(India)** (**ISSN Online:** 0975-3753, **ISSN Print:** 0974-5068)

2. Narayan Singh, Bindu Vaish and S.R. Singh (2016). **Manufacturer-supplier cooperative inventory model for deteriorating item with trapezoidal type demand**, **Vol. 26 (1), pp. 103-120.***Yugoslav Journal of Operations Research* (ISSN: 0354-0243 EISSN: 2334-6043) DOI: 10.2298/YJOR140101021S

3. Narayan Singh, Bindu Vaish and S.R. Singh (2015). **Three level supply chain models with variable demand rate under partial trade credit policy**, *International Journal of Services and Operations Management* (**ISSN online:** 1744-2389, **ISSN print:** 1744-2370), **Vol. 21(4),** *pp. 479-503*.

4. Narayan Singh, Bindu Vaish and S.R. Singh (2014). **A collaborative strategy for three echelon supply chain system with ramp type demand, deterioration and inflation**, *Operations Research and Decisions,* (ISSN. 2081-8858) **Vol. 24 (3)**, *pp. 77-100.* DOI 10.5277/ord140305.

5. Narayan Singh, Bindu Vaish and S.R. Singh (2014). **A three level integrated inventory model with time dependent demand and production rate under a trade credit policy for both distributer and retailer**, *Control and Cybernetics,* **(ISSN 0324**-8569, Index 354732**), Vol. 43(3)** *pp. 449-471.*

6. Narayan Singh, Bindu Vaish and S.R. Singh (2014). **Coordination policy for a three echelon supply chain considering imperfect quality items**, *International Journal of Industrial Engineering Computations,* (ISSN 1923-2934 (Online) - ISSN 1923-2926 (Print)), **Vol. 5(4)**, *pp. 589-602.* DOI:10.5267/j.ijiec.2014.7.001

7. Narayan Singh, Bindu Vaish and S.R. Singh (2014). **Joint cost minimization approach for three echelon supply chain system with multiple retailers under inflation**, **Investigacion** *Operacional* (ISNN: 0257- 4306 - SCOPUS***), Vol. 35(3)**, *pp. 241-255.*

8. **Narayan Singh**, Bindu Vaish and S.R. Singh (2014). **Analysis of three level supply chain of inventory with deterioration for multi-items**, *International Journal of Industrial Engineering Computations (*ISSN 1923-2934 (Online) - ISSN 1923-2926 (Print)), **Vol. 5(3)**, *pp. 417–430*. DOI: 10.5267/j.ijiec.2014.4.001

9. **Narayan Singh**, Bindu Vaish and S.R. Singh (2014). **Order Size Dependent Trade Credit Study in a Three Echelon Supply Chain Model**, *International Journal of Computer Applications Technology and Research (IJCATR-* **ISSN online: 2319–8656***)*, *2014*, **Vol. 3(4)**, *pp. 193 - 199*. DOI: 10.7753/IJCATR0304.1002

10. **Narayan Singh**, Bindu Vaish and S.R. Singh (2012). **An Economic Production Lot-Size (EPLS) Model with rework and flexibility under allowable shortages**, *Int. J. Procurement Management (***ISSN online:** 1753-8440, **ISSN print:** 1753-8432*), **Vol. 5(1),***-pp-104-122*. **DOI**:10.1504/IJPM.2012.044156

11. **Narayan Singh**, Bindu Vaish and S. R. Singh (2010). **An EOQ Model Having Pareto Distribution for Deterioration with Trapezoidal Type Demand and Backlogging under Trade Credit Policy**, *The IUP Journal of Computational Mathematics* (ISSN-09746544),**Vol.-III(3),** *pp 30-53*.

12. **Narayan Singh**, Bindu Vaish and S.R. Singh (2009). **A Production Inventory Model with Variable Demand Rate for Deteriorating Items under Permissible Delay in Payments**, *International Transactions in Mathematical Sciences and Computer* (**ISSN Online:** 0975-3753, **ISSN Print:** 0974-5068), **Vol.2(1),** *pp. 73-82*.

Papers Published in the Proceedings of International / National Conferences

1. **Narayan Singh**, Bindu Vaish and S.R. Singh **(2014). Supply chain inventory model for deteriorating item with trapezoidal type demand** has been published in a Proceeding of **3rd International Conference on "Recent Trends in Engineering & Technology-** (ELSEVIER: Science & Technology**) held at Nasik Maharastra, India in section "**Computer Engineering and Information Technology" (*ISBNNo.:978-93-5107-220-1*) (**Vol.1**,Chapter-77)*pp.462-470* http://www.elsevierst.com/conference_book_download_chapter.php?cbid=67#chapter77

2. **Narayan Singh**, Bindu Vaish and S.R. Singh (2013). **Green supply chain model with product remanufacturing under volume flexible environment** has been published in a Journal *Procedia Technology* (USA) (ELSEVIER- ISSN: 2212-0173) 10, pp. 216 – 226. *http://www.sciencedirect.com/science?_ob=ArticleListURL&_method=list&_ArticleListID=622841547&_sort=r&_st=13&view=c&md5=2b5089be0e4a8a23ac34f1a143d7d0eb&searchtype=a*

Conference/ Presentations/Workshops

Research papers presented in International / National Conferences

1. The Paper entitled, "**A Production Inventory System for Defective Items with Shortages**" presented in **xxiv** Annual conference of department of Mathematics at **BHU** Varanasi on Dec. 30&31, 2008.

2. The Paper entitled, "**Policy decision for a Multi-Items Inventory System with Quality and Stock-Dependent Demand, Inflation and Trade-Credits**" presented in National Conference on Role of Management Science in Decision Making at IMT Nagpur on Feb. 13&14, 2009.

3. The Paper entitled, "**Deterministic Economic Production Quantity Model with time dependent production Rate and Permissible Delay in Payments**" presented in "National Conference on Recent Trends in the Advancement of Astronomy and Applied Mathematics" organized by **SGRR College Dehradun** at Dehradun on Nov. 14&15 2009.

4. The Paper entitled, **"An EPQ Model with Varying Rates under Permissible Delay in Payments**" presented in "National Seminar on Computational Mathematics & Operation Research" by **BKBIT Pilani** at Pilani Rajasthan on Nov. 28&29 2009.

5. The Paper entitled, "**Optimal Ordering Policies to Inventory Model with Trapezoidal Type Demand and Backlogging**" presented in 8th triennial conference of "Association of Asian Pacific Operational Research Societies (APORS)" by **Jaipuria Institute of Management** Jaipur on Dec. 6 to 9 2009.

6. The Paper entitled, "**Three Echelon supply chain inventory model with time dependent demand production rate under two level trade credit policies**" presented in *the International conference on* OPERATIONAL RESEARCH FOR URBAN AND RURAL DEVELOPMENT (ORURD) by **Thiagarajar college of Engineering Madurai**, on December, 15-17, 2010.

7. The Paper entitled, "**An Inventory Model with Volume flexibility and allowable shortages**" presented in 98th Indian Science Congress by **SRM University Channai** on Jan. 3 to 7 2011.

8. The Paper entitled, "**An Integrated three echelon Supply Chain Inventory Model with variable Demand**" presented in "3rd National Seminar on Recent trends in advancement Mathematical & Physical Sciences" by **D. N. College Meerut** on Feb. 5&6, 2011.

9. The Paper entitled, "**Green supply chain model with product remanufacturing under volume flexible environment**" presented in First International Conference on Computational Intelligence: Modeling Techniques and Applications (CIMTA) by **University of Kalyani Kolkatta** India on Sep. 27 &28, 2013.

10. The Paper entitled, "**Supply chain inventory model for deteriorating item with trapezoidal type demand**" presented in **3rd International Conference on "Recent Trends in Engineering & Technology" by SNJB College of engineering Nasik Maharastra on March. 28 & 30 2014.**

11. Paper entitled, "**Manufacture-based Supply Chain Inventory Model with Ramp Type Demand under Inflation**" has been presented in National Conference on Advances in Operations Research and Mathematical Sciences held at Vardhman College Bijnor U P on 24-25 Feb 2018.

12. Paper entitled, "**Cost determination with two level permissible delay and cash discount for retailer in a multi-level supply chain**" has been presented in International e-conference on 'Mitigating environmental issues by sustainable approaches (ICMCESA-2022)' organized by Acharya Narendra Dev College, University of Delhi, New Delhi on February 22-28, 2022

Worksho0/FDP/Orientation/Induction

1. Attended a "Workshop on Mathematical Modeling and Related Optimization Techniques" Organized by Society for Reliability Engineering, Quality and Operations Management, on 14-17 December 2009 held at **University of Delhi**, Delhi.

2. Participated in One Day International Webinar on Matlab Applications in Sciences and Engineering organized by Baba Farid College, Patiala, Punjab online on 29 May, 2020.

3. Participated in Two Days Webinar on R Software organized by Department of Mathematics Bhagalpur University, online on 6-7 June, 2020.

4. Completed 2- Weeks Faculty Development Programme on "MANAGING INLINE CLASSES and CO-CREATING MOOCS:2.O" organized by RAMANUJAN COLLEGE University of Delhi from May 18 to June 03, 2020 (Online Mode).

5. Completed 4 – Weeks INDUCTION / ORIENTATION Programme for "FACULTY IN UNIVERSITIES / COLLEGES / INSTITUTES OF HIGHER EDUCATION" organized by RAMANUJAN COLLEGE University of Delhi from June 26 to July 24, 2020 (Online Mode).

6. Attended 1-Week online lecture series on "ADVANCES IN INVENTORY CONTROL & SUPPLY CHAIN MANAGEMENT" organized by Operation Research Society of India, Meerut Chapter on Nov.-Dec. 2020.

7. Presented a paper in 2-Days "INTERNATIONAL CONFERENCE ON SUSTAINABLE DEVELOPMENT: MODELLING AND OPTIMIZATION" organized by Operation Research Society of India, Meerut Chapter on Feb. 16-17, 2021.

8. Completed 2- Weeks REFRESHER COURSE in "MATHEMATICS" organized by Department of Mathematics, RAMANUJAN COLLEGE University of Delhi from 16-30 March, 2021 (Online Mode).

9. Completed 2- Weeks WORKSHOP in "***Tools and Techniques in Statistical Analysis***" organized by ACHARYA NARENDRA DEV COLLEGE (University of Delhi) from 06-19 April, 2021 (Online Mode).

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

❖ The paper "**An economic production lot-size (EPLS) model with rework and flexibility under allowable shortages**", *International Journal of Procurement Management*, 2012, has been selected as a winning paper in the prestigious **Emerald Citations of Excellence for 2015**

❖ **JRF & SRF** by CSIR

Association With Professional Bodies

❖ Life time member of the Association for Advancement in Combinatorial Sciences.
❖ Life time member of Operational Research Society of India.
❖ Secretary of the Meerut Chapter of Operational Research Society of India.
Other Activities