

## **Dr. Satish Kumar Goel**

(Assistant Professor, Shaheed Sukhdev College of Business Studies, University of Delhi)

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### **ACADEMIC QUALIFICATIONS**

#### **2006 Ph. D.**

Doctor of Philosophy (Ph.D.) in Operational Research from Department of Operational Research, University of Delhi, Delhi, India.

*Thesis Title: Impact of Trade Credit on Inventory Policies*

#### **2000 Post-Graduation (2 year)**

M.Sc.(Operational Research) from Hindu College, University of Delhi with 63.6 marks.

#### **1998 P.G.D.C.A. (1 year)**

Post Graduate Diploma in Computer Applications from Shaheed Sukhdev College of Business Studies, University of Delhi with 60.6% marks.

#### **1997 Graduation (3 year)**

B. Sc. (General) PCM from Shyam Lal College, University of Delhi with 70.2% marks.

### **FELLOWSHIP/AWARD**

#### **2001 JRF-NET**

Qualified National Eligibility Test (NET) in Subject Area: **Mathematical Sciences** conducted by University Grants Commission (UGC).

**Jan 2002- Dec 2004** Awarded Junior Research Fellowship by UGC.

**Jan 2005- Sep 2005** Awarded Senior Research Fellowship by UGC.

### **EXPERIENCE ( 16+ years)**

5 years 9 months as Assistant Professor in the Department of Management Studies, Shaheed Sukhdev College of Business Studies, University of Delhi **(July 2018–till date)**.

6 years 6 months as Assistant Professor in the **Department of Operational Research, University of Delhi** (Aug 2009–May 2014 and Jan 2015- May 2016).

2 months as Assistant Professor in the Department of Mathematics, Keshav Mahavidyalaya, University of Delhi (Aug 2014-Sep 2014).

4 years as Assistant Professor in Operational Research in the Department of Mathematics, Maharaja Agrasen College, University of Delhi (Aug 2005-Aug 2009).

### **PUBLICATIONS (954 Google citations as on 10-4-24)**

#### **Book Chapter**

Jaggi Chandra K, **Goel Satish K** and Mittal M. (2011), "Pricing and Replenishment Policies for Imperfect Quality Deteriorating Items under Inflation and Permissible Delay in Payments", *Management Theories and Strategic Practices for Decision Making (USA)* edited by Madjid Tavarna, Chapter 10, pp. 170-185. **(IGI Global) ISBN 13: 9781466624733**

#### **Research Papers Published in Refereed Journals**

##### **Science Citation Index Expanded (SCIE Indexed):**

1. Jaggi Chandra K, Tiwari Sunil and **Goel Satish K** (2017), "Credit financing in economic ordering policies for non-instantaneous deteriorating items with price dependent demand

and two storage facilities", *Annals of Operations Research*, **248(1)**, 253-280  
**(Impact Factor: 4.8) ISSN: 0254-5330**

2. Jaggi Chandra K, **Goel Satish K** and Mittal M. (2013), "Credit Financing in Economic Ordering Policies for defective Items with Allowable Shortages" *Applied Mathematics and Computation*, Vol. 219, No. 10, pp. 5268-5282 **Elsevier (Impact factor 4) ISSN: 0096-3003.**
3. Jaggi Chandra K, Kapur P K, Goyal S K and **Goel Satish K** (2012) "Optimal replenishment and credit policy in EOQ model under two-levels of trade credit policy when demand is influenced by credit period" *International Journal of Systems Assurance Engineering and Management*, Vol. 3, No. 4, pp. 352-359. **Springer ISSN: 0975-6809 (Impact factor 2) (Emerging SCI Indexed).**
4. Jaggi Chandra K, Goyal S K and **Goel S K** (2008), "Retailer's Optimal Replenishment Decisions with Credit Linked Demand under Permissible Delay in Payments", *European Journal of Operational Research* Vol. 190, No. 1, pp. 130-135. **Elsevier (Impact factor 6.4) ISSN: 0377-2217 .**
5. Jaggi C K, Aggarwal K K and **Goel S K** (2006) "Optimal Order Policy for Deteriorating items with Inflation induced Demand", *International Journal of Production Economics*, Vol. 103, No. 2, pp. 707-714. **Elsevier (Impact factor 12) ISSN: 0925-5273 (SNIP: 2.48).**

#### **UGC Care List (Scopus Listed):**

6. Jaggi Chandra K, **Goel Satish K**, and Tiwari Sunil (2017), "Two-Warehouse inventory model for non-instantaneous deteriorating items under different Dispatch Policies", *Investigación Operacional, Cuba*, 38(4), 343-365. **(SNIP: 0.34). ISSN: 0257-4306.**
7. Jaggi Chandra K, Tiwari Sunil and **Goel Satish K** (2016), "Replenishment policy for non-instantaneous deteriorating items in a two storage facilities under inflationary conditions", *International Journal of Industrial Engineering Computations*, 7(3), 489-506. **(Impact factor-2.45) (Growing Science) ISSN 1923-2926.**
8. Jaggi Chandra K, Pareek S, **Goel Satish K** and Singhal Nidhi (2015), "An inventory model for deteriorating items with ramp type demand under fuzzy environment" *International Journal of Logistics Systems and Management*. Vol. 22, No. 4, pp. 436-463 **Inderscience. (SNIP: 0.758) Print ISSN: 1742-7967 Online ISSN: 1742-7975.**
9. Jaggi Chandra K, Kapur P K, Goyal S K and **Goel Satish K** (2013), "Replenishment Decisions under Two Level Credit Policy for Flexible Credit Linked Demand" *International Journal of Operational Research*, Vol.18, No.3, pp. 239 - 254. **Inderscience ISSN:17457645 (SNIP :0.58)**
10. Jaggi Chandra K, **Goel S K** and Mittal M. (2011), "Economic order quantity model for deteriorating items with imperfect quality and permissible delay on payment", *International Journal of Industrial Engineering Computations* Vol. 2, No. 2, pp. 237-248. **Growing Science, (SNIP :1.8) ISSN: 1923-2926**

#### **Other Publications (not in UGC CARE List)**

11. Jaggi Chandra K, **Goel Satish K** and Mittal M . (2011), "Pricing and replenishment policies for imperfect quality deteriorating items under inflation and permissible delay in payments", *International Journal of Strategic Decision Sciences (IJSDS)*, Vol.2, No. 2, pp. 20-35. **IGI Global ISSN: 1947-8569**
12. Jaggi Chandra K, Aggarwal K K and **Goel S K** (2007), "Retailer's Optimal Ordering Policy under Two-Stage Trade Credit Financing", *Advanced Modeling and Optimization, An Electronic International Journal*, Vol. 9, No. 1, pp. 67-80. ICI Publishing House, Bucharest, Romania. **EISSN: 1841-4311 (Group D) (from 2020 not in UGC care)**

13. Jaggi Chandra K, **Goel S K** and Kausar Amrina (2007) "Joint Optimization of Price and Cycle Length under Two-Stage Credit Policy with Credit-Linked Demand" *Investigacion Operacional, Cuba*, 28(3),196-203. (SNIP: 0.34). **ISSN: 0257-4306.**
14. Jaggi Chandra K, Aditi Khanna and **Goel S K** (2007) "Progressive Credit Policy In A Supply Chain Model Under Inflationary Conditions", *Mathematics Today (India)*, Vol.23, No.2, pp 1-18. **ISSN: 0976-3228**
15. Jaggi C K and **Goel S K** (2005) "Economic Ordering Policies of Deteriorating Items with Trade-Credit under Inflationary Conditions" *International J of Mathematical Science* Vol. 4, pp. 275-286. **ISSN: 0972-754X**
16. Jaggi C K, Amrina Kausar and **Goel S K** (2005) "Impact of Media Insertions on Production Inventory Systems of Deteriorating Items" *Int J of Mathematical Science* Vol. 4, pp. 379-390. **ISSN: 0972-754X**
17. Jaggi C K, Aggarwal K K and **Goel S K** (2005) "A Marketing-Oriented Inventory Model for Stock-Dependent Demand Rate under Permissible Delay in Payments", *Indian Jour of Mathematics and Mathematical Sciences*, Vol. 1, pp. 9-21. **ISSN: 0973-3329**

### **Conference Proceedings**

1. Jaggi C K, Aggarwal K K and **Goel S K** (2005) "Optimal Ordering Policies of Deteriorating Items with Variable Carrying Cost under Permissible Delay in Payments" *Quality, Reliability and IT (Trends & future Directions)*, Eds.PK Kapur and AK Verma. pp. 410-417. ISBN: 978-81-7319-572-3, Narosa Publishing House
2. Jaggi C K, Aggarwal K K and **Goel S K** (2005), "Retailer's Optimal Ordering Policy of Deteriorating items under Trade Credit", *Vision 2020-The Strategic Role of Operational Research (Proceedings of the 37<sup>th</sup> Annual Convention of the ORSI)*, Ed. N. Ravichandran, Indian Institute of Management, Ahmedabad, pp. 695-706. **ISBN: 8184241089**, New Delhi Allied Publishers Pvt. Ltd., 2005
3. Jaggi C K, Aggarwal K K and **Goel S K** (2005) "The optimal cycle time for EPQ inventory model of deteriorating items under permissible delay in payments", *Vision 2020-The Strategic Role of Operational Research (Proceedings of the 37<sup>th</sup> Annual Convention of the ORSI)*, Ed. N. Ravichandran, IIM, Ahmedabad, pp. 707-720. **ISBN: 8184241089**, New Delhi Allied Publishers Pvt. Ltd., 2005
4. Jaggi C K, Aggarwal K K and **Goel S K** (2004) "Economic Ordering Policies for a Finite Replenishment Rate Inventory Model under Supplier-Credits", *Mathematical Modeling (Application, Issues and Analysis)*, Ed. BK Mishra & DK Satpathi, BITS-Pilani, pp. 155-162. **ISBN: 9788180521270, Ane Books India.**
5. Jaggi C K, Aggarwal K K and **Goel S K** (2004) "Optimal Ordering Policies for Stock-Dependent Demand Rate with Trade-Credit", *Mathematical Modeling (Application, Issues and Analysis)*, Ed. B.K. Mishra & D.K. Satpathi, BITS-Pilani, pp. 163-172. **ISBN: 9788180521270, Ane Books India.**

### **CONFERENCES PARTICIPATION AND PRESENTATIONS**

1. **Conference Secretary** for the International Conference on Sustainable Supply Chain Management under India's G20 Presidency (SSCM-G20) during November 4–5, 2023, at Conference Centre, University of Delhi, Delhi, India.
2. **Chaired a Plenary Session** in the International Conference on Sustainable Supply Chain Management under India's G20 Presidency (SSCM-G20) during November 4–5, 2023, at Conference Centre, University of Delhi, Delhi, India
3. Participated in the International Webinar on "Emerging Trends in Sustainable Supply Chain Management" organised by Association of Inventory Academicians and Practitioners, Dept of Mathematics, Gujrat University and Department of OR, DU during 12-13 June, 2021.

4. Participated in the 53rd Annual Convention of the Operational Research Society of India and International Webinar on "Role of Operations Research during Pandemic" organised by Operational Research Society of India in Association with Operational Research Society of Nepal during 17-20 Dec, 2020.
5. **Conference Secretary** in the International Conference on Emerging Trends in Inventory, Supply Chain & Reliability Modeling organized by Association of Inventory Academicians and Practitioners in conjunction with Department of Operational Research, University of Delhi, Delhi, India and Department of Mathematics, Gujarat University, Gujarat, India at University of Delhi, Delhi during Dec 21-23, 2018.
6. **Chaired a Plenary Session** in the International Conference on Emerging Trends in Inventory, Supply Chain & Reliability Modeling organized by Association of Inventory Academicians and Practitioners in conjunction with Department of Operational Research, University of Delhi, Delhi, India and Department of Mathematics, Gujarat University, Gujarat, India at University of Delhi, Delhi during Dec 21-23, 2018.
7. Presented a paper entitled "EOQ Models under Inflationary Conditions" at the National Conference on Recent Trends in Mathematical Sciences (NCRMT 2015) at Shri Mata Vaishno Devi University, Katra during Oct 08-09, 2015.
8. Attended the National Conference on Mathematical, Computational Dynamics and Operations Research held at Seth Moti Lal PG College, Jhunjhunu (Rajasthan) during Mar 1-2, 2014.
9. Attended the National Conference on Recent Trends and Development in Operations Research held at Birla Institute of Technology and Science, Pilani during Feb 22-23, 2014.
10. Attended and delivered an **invited talk** on "Inventory Modeling under Inflationary Conditions" at the International Conference on Mathematical Techniques in Engineering Applications held at Graphic Era University, Dehradun during Oct 24-25, 2013.
11. Attended the international conference The Legacy of Srinivasa Ramanujan at Conference Center, University of Delhi during Dec 17-22, 2012.
12. Attended the 2<sup>nd</sup> International Science Congress organized by The International Science Congress Association at Bon Maharaja Engineering College, Virndavan, Mathura, during 8-9<sup>th</sup> Dec, 2012.
13. Attended the 6<sup>th</sup> International Conference on Quality, Reliability, Infocom Technology & Industrial Management held at Conference Center, University of Delhi, New Delhi during 26-28 Nov, 2012.
14. Attended The Academic Congress, Enabling the Young: Redefining Education at Conference Center, University of Delhi, Delhi during 6-7 September 2012.
15. Attended the National Conference on Mathematical, Computational Dynamics and Operations Research held at Birla Institute of Technology and Science, Pilani during 4-5 Feb, 2012.
16. Attended and presented a paper entitled "Credit financing in economic ordering policies for imperfect quality items with allowable shortages" at ICPQROM 2011 jointly organized by ISI, QCI AND DRDO held at India Habitat Center, New Delhi during 07-08 Feb, 2011.
17. Attended the National Meet on History of Mathematical Sciences held at Univ. of Delhi, New Delhi during 7-9 January 2010.
18. Attended and presented a paper entitled "Optimal replenishment and credit policy in EOQ model when demand is influenced by credit period" 4<sup>th</sup> International Conference on Quality, Reliability & Infocom Technology held at University of Delhi, New Delhi during 18-20 Dec, 2009.
19. Attended and presented a paper entitled "Supplier Retailer inventory policy using a flexible credit linked demand" at 40<sup>th</sup> Annual Convention of the ORSI held at INSA, New Delhi during 04-06 Dec, 2007.
20. Attended and presented a paper in 3<sup>rd</sup> Int. Conference on Quality, Reliability & Infocom Technology at INSA, Delhi during 2-4 Dec, 2006.
21. Participated in National Symposium on Recent Advances in Optimization Theory and Applications held at Academic Research Center, University of Delhi during 27-28 Oct 2006.

22. Attended and presented a paper "Ordering policy under two stage trade credit financing" at ICORAID-2005-38<sup>th</sup> Annual Convention of the ORSI held at Indian Institute of Science, Bangalore during 27-29 Dec, 2005.
23. Attended and presented a paper "Retailer's optimal ordering policy of deteriorating items under trade credit" in 37<sup>th</sup> Annual Convention of the ORSI held at Indian Institute of Management, Ahmedabad during 8-11 Jan, 2005.
24. Attended and presented a paper "Retailer's optimal policy for deteriorating items under trade credit financing" in the SCRA 2004 FIM XI held at Shrewood College of Management, Lucknow, during 27-29 Dec, 2004.
25. Attended and presented a paper "Optimal Ordering Policies for Stock-Dependent Demand Rate with Trade-Credit" in the National Conference on Mathematical Modeling and Analysis held at Birla Institute of Technology and Science, Pilani during 8-9 Oct, 2004.
26. Attended and presented a paper "Impact of inflation and deterioration under credit linked inventory level and demand" in the in 2<sup>nd</sup> International Conference on Quality, Reliability & Information Technology held at New Delhi during 18-20 Dec, 2003.
27. Attended and presented a paper "Optimal Ordering Policies of Deteriorating Items with Variable Carrying Cost under Permissible Delay in Payments" in the in 2<sup>nd</sup> International Conference on Quality, Reliability & Information Technology held at New Delhi during 18-20 Dec, 2003.
28. Attended and presented a paper "Optimal Ordering Policies for stock dependent demand rate with trade credit" in 6<sup>th</sup> International Conference of the Association of Asia-Pacific Operational Research Societies held at New Delhi during 8-11 Dec, 2003.
29. Attended and presented a paper "Economic Ordering Policies of Deteriorating Items with Trade-Credit under Inflationary Conditions" in International Conference on Operations Research for Development (ICORD2002) held at Anna University, Chennai during 27-30 Dec, 2002.

#### **FDP/SEMINAR/WORKSHOP ATTENDED**

1. **Resource Person** for 4 days FDP on Introduction to Business Analytics using python (online) conducted by SSCBS, DU from 5-8 Aug, 2023.
2. **Refresher Course:** Python: Essentials, Programming and Analytics & Business Intelligence and Data Visualization jointly organized by University of Delhi and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, DU from 27Oct-Nov11, 2022.
3. Attended a workshop on " **FDP on Demystifying data science** " held at SSCBS, University of Delhi from May 13-16, 2021.
4. Attended a workshop on "**Mathematical Modeling and Related Optimization Techniques**" held at Department of Operational Research, University of Delhi from Dec. 14-17, 2009.
5. Participated as Organizer in a UGC Sponsored National Seminar on **Recent Researches in Physical Educations and Sports** held at University of Delhi from Nov 5-6, 2008.
6. Attended and presented a paper "Economic Ordering Policies of Deteriorating Items with Trade-Credit under Inflationary Conditions" in a **One Day Seminar on Operational Research** held at Department of Operational Research, University of Delhi on March 29, 2003.
7. Attended a workshop on **SPSS** on 14 & 30 Oct 2006 conducted by University School of Management Studies, I.P. University in collaboration with SPSS South Asia, Bangalore.
8. Attended a training course on **Programming in C++** from 03-09-2001 to 21-09-2001 conducted by Delhi University Computer Center.
9. Attended a training course on **Visual Basic** from 05-02-2001 to 23-02-2001 conducted by Delhi University Computer Center.

**Courses Taught: Post-Graduation (2009-2016)**

Course Title	University/Institution	Level	Year
302: Reliability & Maintenance Theory	Department of Operational Research, University of Delhi	M.A./M.Sc. AOR Sem-3	2013-14
304: DBMS & Visual Prog.	Department of Operational Research, University of Delhi	M.Sc. OR & AOR Sem-3	2011-15
105 :C++ and Unix	Department of Operational Research, University of Delhi	M.Sc. OR & AOR Sem-1	2009-16
205a: Java Programming	Department of Operational Research, University of Delhi	M.Sc. OR & AOR Sem-2	2010-16
202: Project Management/ Networking Techniques	Department of Operational Research, University of Delhi	M.Sc. OR Sem-2	2010-13
204 : Statistics-II	Department of Operational Research, University of Delhi	M.Sc. AOR Sem-2	20011-12
401-03(vi) Decision Theory	Department of Operational Research, University of Delhi	M.Sc. OR Sem-4	2013
104 :Statistics-I	Department of Operational Research, University of Delhi	M.Sc. OR Sem-1	2010
103: Queueing Theory-1	Department of Operational Research, University of Delhi	M.Sc. AOR Sem-1	2009
404-405: Cases /Project Discussion	Department of Operational Research, University of Delhi	Post Graduate	2009-10 2013-14
<b>Under-Graduate (2005-2024)</b>			
Introduction to Business Analytics (DSC), Programming with Python(SEC), Business Analytics, Financial Analytics, Basics of Statistical Inference, Business Statistics for Decisions, Inventory Management(GE), DBMS, POM, Quantitative Techniques	Shaheed Sukhdev College of Business Studies University of Delhi	Under Graduate	2018-24
Statistics, LPP and Project Management	Keshav Mahavidhyalaya University of Delhi	Under Graduate	2014-15
Optimization-1 :Linear Programming/Statistics	Maharaja Agarsen College University of Delhi	Under Graduate	2005-09
Queueing Theory	Maharaja Agarsen College University of Delhi	Under Graduate	2005-09
Inventory Control & Marketing Management	Maharaja Agarsen College University of Delhi	Under Graduate	2005-09
SQC and Forecasting	Maharaja Agarsen College University of Delhi	Under Graduate	2005-09
Case Studies	Maharaja Agarsen College University of Delhi	Under Graduate	2005-09

### Visiting Faculty

Course Title	University/Institution	Level	Year
B.A. Operational Research papers	Dayal Singh College Evening, University of Delhi	B.A.(P) Sem-I,II	2019-20
GE: Integer Programming and Game Theory	Delhi College of Arts and Commerce, University of Delhi	B.A.(H)/B.Com(H) Sciences Sem-IV	2017
Forecasting	Deen Dayal Uppadhya College, University of Delhi	B.Sc.Mathematical Sciences Sem-II	2017
Inventory & Marketing Management	Deen Dayal Uppadhya College, University of Delhi	B.Sc.Mathematical Sciences Sem-II	2016-17
GE: Inventory Management	Delhi College of Arts and Commerce, University of Delhi	B.A.(H)/B.Com(H) Sciences Sem-II	2016-17
GE: Queuing Theory	Delhi College of Arts and Commerce, University of Delhi	B.A.(H)/B.Com(H) Sciences Sem-I	2016
GE: Introduction to OR and LPP	Delhi College of Arts and Commerce, University of Delhi	B.A.(H)/B.Com(H) Sciences Sem-I	2015-2016
Optimization Techniques	Hindu College, University of Delhi	B.Sc.(Hons.) Statistics Sem-IV	2015
Allied paper- DC II: Network Models and Project	Shree Aurobindo College, University of Delhi	B.Sc.(Hons.) Math Sem-IV	2015
Inventory & Production Management	Shree Arbindo College, University of Delhi	B.Sc.(Hons.) Math Sem-III	2014
Inventory & Production Management	Deen Dayal Uppadhya College, University of Delhi	B.Sc.(Hons.) Math Sem-IV	2014
Inventory & Production Management	Keshav Mahavidyalaya, University of Delhi	B.Sc.Mathematical Sciences Sem-II	2013
Reliability and Quality Control	Shree Rajguru College of Applied Sciences, University of Delhi	B.A.Sc. Instrumentation 3 <sup>rd</sup> year	2012-13
Statistics	Deen Dayal Uppadhya College, University of Delhi	B.Sc.(Hons.) Math Sem-I & II	2012-13
Statistics	SPM College, University of Delhi	B.Sc.(Hons.) Computer Science Sem-III	2011
Differential Equations	Shri Guru Govind Singh College of Commerce, University of Delhi	B.Sc.(Hons.) Computer Science Sem-III	2008
Quantitative Methods	<b>BHAGWAN PARSHURAM INSTITUTE OF TECHNOLOGY</b>	<b>MBA Sem-1</b>	2008-2009
Numerical Analysis	COLLEGE OF VOCATIONAL STUDIES, University of Delhi	B.Sc.(Hons.) Computer Science Sem-III	2003-04