




Faculty Details proforma for DU Web-site

Title	Prof.	First Name	K K	Last Name	Aggarwal	Photograph
Designation		Professor				
Address		Department of Operational Research, Faculty of Mathematical Sciences University of Delhi, Delhi 110 007.				
Phone No	Office	91-011-27666672				
	Residence	91-011-25820920				
	Mobile	9811569252				
Email	kkaggarwal@gmail.com					
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		University of Delhi			2002	
M.Phil.		University of Delhi			1991	
PG		University of Delhi			1989	
UG		University of Delhi			1987	
Career Profile						
Organisation / Institution			Designation		Duration	
Department of Operational Research, University of Delhi			Professor		January 2011 - Present	
Department of Operational Research, University of Delhi			Reader/Associate Professor		January 2005 – 2011 January	
Department of Operational Research, University of Delhi			Assistant Professor		August 2000 – January 2005	
National Informatics Centre, Ministry of Communication & Information Technology, New Delhi			Scientist C		January 1998 – August 2000	
National Informatics Centre, Ministry of Communication & Information Technology, New Delhi			Scientist B		October 1993 –December 1997	
Administrative Assignments						
Areas of Interest / Specialization						
Inventory Management, Supply Chain Management.						

Subjects Taught

17+ years of teaching experience

MSc Operational Research (Main Campus):

- Inventory Management
- Financial Management
- Data Warehousing and Data Mining
- DBMS and Java Programming
- Network Analysis and Theory of Sequencing
- Industrial Project Work

MA/MSc Applied Operational Research (South Campus):

- Inventory Management
- Data Warehousing and Data Mining
- Statistical Methods
- Advanced Inventory Management
- Industrial project

M.Phil Operational Research

- Financial Engineering

Master of Finance & Control Department of Financial Studies

- Quantitative Techniques
- Business Statistics and Mathematics

MBA (FT) FMS North Campus

- Quantitative Methods
- Management Science

MA/MSc Statistics, Department of Statistics

- Introduction to Operational Research

Research Guidance

List against each head (If applicable)

Supervision of awarded Doctoral Thesis : 4

- Arun Kumar (2016), "A Study for Coordinating Inventory and Credit Decisions"
- Alok Kumar (2014), "A Modeling Framework for Coordinating Inventory and Marketing Decisions" (Joint Supervisor: Prof. Chandra K Jaggi)
- Mona Verma(2010), "To study Inventory efficiency in the Supply Chain" (Joint Supervisor: Prof. Chandra K Jaggi)
- Priyanka Verma (2010), "Study of Inventory Policy under Limited Capacity Constraint" (Joint Supervisor: Prof. Chandra K Jaggi)

Supervision of Doctoral Thesis, under progress : 3

Supervision of awarded M.Phil dissertations : 9

- Vaishali Prasad (2016), "A Study of Integrated Inventory and Marketing Decision Models"
- Shuja Ahmed (2015), "A Study of Coordinated Inventory and Pricing Decisions"
- Fehmina Malik (2015), "A Study of Production-Inventory and Inspection Policies for Imperfect Production Systems"

- Sonal Aneja (2011), “A Study of Optimization Methods in Finance”
- Charanjeet Singh (2010), “A Study of Inventory Systems with Stock Dependent Demand”
- Shweta Agrawal (2009), “A Study of Integrated Single-Vendor Single-Buyer Inventory Models in Two Stage Supply Chain”
- Pankaj Jain (2009), “Study of Contingent Claims Valuation Models”
- Divya Chatwal (2009), “A Study of Modeling Approaches in Financial Management”
- Priyanka Kapoor (2009), “ Study of Option Pricing Models”

Submitted M.Phil dissertations

: 1

Publications Profile (in the last five years)

List against each head (if applicable) (as illustrated with examples)

- *Books/Monographs (Authored/Edited)*

BOOK CHAPTERS:

“An Economic Order Quantity Model for New Products When Demand Follows Dynamic Innovation Process” with co-author Alok Kumar, Analytical Approaches to Strategic Decision-Making: Interdisciplinary Considerations, by Prof. Madjid Tavana, IGI Global, USA, Chapter 15, pp 297-319, 2014.

- *Research papers published in Refereed/Peer Reviewed Journals*
- K.K. Aggarwal, & Tyagi, Arun Kumar (2017). “Inventory And Credit Decisions under Inflationary Conditions with Inflation Induced Bad-Debts”, International Journal of Operations Research and Information Systems (IJORIS), accepted.
- K.K. Aggarwal, & Tyagi, Arun Kumar (2017). “Inventory and credit decisions under day-terms credit and stock-dependent demand”, International Journal of Supply Chain and Inventory Management, accepted (in press).
- K.K. Aggarwal, & Sonal Aneja (2016). “An EOQ model with inspection error, rework and sales return”, International Journal of Advanced Operations Management, Vol.8, No.3, pp.185 - 199.
- K.K. Aggarwal, & Tyagi, Arun Kumar (2016). Joint replenishment and credit policies under two levels of trade credit financing when demand and bad-debt loss depends upon credit period. Yugoslav Journal of Operational Research, 2015, 26 (2016), Number 3, 279-304, DOI:10.2298/YJOR140412003A.
- K.K. Aggarwal, & Tyagi, Arun Kumar (2015). “A model for coordinating and joint optimization of inventory and credit policies in an inventory system with date-terms credit linked demand”, International Journal of Operational Research, Vol.22, No.1, pp. 65-90.
- K.K. Aggarwal, & Tyagi, Arun Kumar (2014). Optimal inventory and credit policies under two levels of trade credit financing in an inventory system with date-terms credit linked demand. International Journal of Strategic Decision Sciences, Vol. 5, No. 4, pp. 99-126.
- K. K. Aggarwal, & Tyagi, Arun Kumar (2014). Inventory and credit decisions under day-terms credit linked demand and allowance for bad debts. Advances in Decision Sciences, Vol. 2014, pp. 1-11.
- K.K. Aggarwal, Chandra K. Jaggi and Alok Kumar (2014) ‘Inventory Control of New Products with Price Change Anticipation under Influence of Innovation diffusion process, International Journal of

E-Business Development, Vol. 4, No. 2, pp. 61-74.

- K.K. Aggarwal and Arun Kumar Tyagi (2014), "Inventory and credit strategies for day-terms credit linked demand", *Advanced Modeling and Optimization*, Vol. 16, pp. 311-329
- K.K. Aggarwal and Alok Kumar (2013) 'Economic order quantity model with innovation diffusion criterion under influence of price dependent potential market size, *International Journal of Innovation and Technology Management*, World Scientific, Vol. 11, No. 4, pp. 1450028-1-1450028-25
- K.K. Aggarwal and Arun Kumar Tyagi (2013). "A model to jointly determine inventory and credit policies in an inventory system with date-terms credit linked demand", *Int. J. of Modelling in Operations Management*, Vol.3, No.1, pp.53 – 69
- K. K. Aggarwal, Chandra K. Jaggi, and Alok Kumar (2013), "An Inventory Decision Model When Demand Follows Innovation Diffusion Process under Effect of Technological Substitution," *Advances in Decision Sciences*, vol. 2013, pp. 1-10.
- K.K. Aggarwal and Alok Kumar (2013). "An Inventory Decision Model for New Products when Demand depends on Dynamic Advertising Expenditure", *Int. J. of Logistics Systems and Management*, Vol.15, No.4, pp.424 - 444
- Divya Jain and K.K. Aggarwal (2013.). "The optimal production-run time for a stock dependent imperfect production process", *Yugoslav Journal of Operational Research*, Vol. 23, No.1, pp. 111-127
- Alok Kumar, K.K. Aggarwal and Udayan Chanda (2013). "Economic order quantity model under Fuzzy sense with Demand follows Bass's Innovation Diffusion process" *Int. J. of Advanced Operations Management*, Vol.5, No.3, pp.261 - 281
- Sandhya Bajaj, P.C. Jha and K.K. Aggarwal (2013). "Single-Source, Single-Destination, Multi Product EOQ Model with Quantity Discount incorporating Partial/Full Truckload Policy", *International Journal of Business Performance and Supply Chain Modelling*, 2013 Vol.5, No.2, pp.198 – 220
- K.K. Aggarwal and Alok Kumar (2012). "An inventory model for new product when demand follows dynamic innovation process having dynamic potential market size", *International Journal of Strategic Decision Sciences*, Vol. 3. , no. 4., pp. 78-99.
- Divya Jain and K.K. Aggarwal (2012). "The effect of inflation induced demand and trade credit on ordering policy of exponentially deteriorating and imperfect quality items", *International Transactions in Operational Research*, Wiley-Blackwell, Vol. 19, No. 6, pp. 863–889.
- K.K. Aggarwal, Chandra K. Jaggi and Alok Kumar (2012) "Economic order quantity model under Fuzzy sense When Demand follows Innovation Diffusion process having Dynamic Potential Market Size", *International Journal of Services and Operations Management*, Vol.13, No.3, pp.361 – 391.
- Alok Kumar and K.K. Aggarwal (2012) "Optimal Replenishment Policy for an Inventory Model with Demand Follows Innovation Diffusion Process under Permissible Delay in Payments", *International Journal of Information and Management Sciences*, Vol. 23, No. 2, pp. 177-197.
- Jaggi Chandra K, K.K. Aggarwal and Mona Verma (2012). "Retailer's Optimal Ordering Policies under Two Stage Partial Trade Credit financing in a Supply Chain", *International Journal of Industrial and Systems Engineering*. Vol. 10, No. 3, pp. 277- 299.
- K.K. Aggarwal, Jaggi Chandra K., and Alok Kumar (2011). "Economic Order Quantity Model with Innovation Diffusion Criterion having Dynamic Potential Market Size", *International Journal of*

Applied Decision Sciences, Vol. 4, No.3 pp. 280 – 303.

- Jaggi Chandra K, K.K. Aggarwal and Priyanka Verma (2010). “Inventory and Pricing Strategies for Deteriorating Items with Limited Capacity and Time-Proportional Backlogging Rate” International Journal of Operational Research, Vol. 8, No.3 pp. 331 – 354.
- Jaggi Chandra K, K.K. Aggarwal and Priyanka Verma (2010). “Two-Warehouse Inventory Model for Deteriorating Items when Demand is Price Sensitive”, International Journal of Operational Research (IJOR), Vol. 7, No. 4, pp. 530-551.
- Jaggi Chandra K, K.K. Aggarwal and Mona Verma (2010) “Allocation Game in a single period Supply Chain Model” Revista Investigación Operacional, Cuba, Vol. 31, No. 1, 258-267.

3.

*Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals
Research papers published in Refereed/Peer Reviewed Conferences*

- K.K. Aggarwal, Chandra K. Jaggi and Alok Kumar (2011) ‘Inventory Decisions for Deteriorating Items with Variable Carrying Cost Under Inflationary Conditions’, Proceeding of National Conference on Mathematical Modelling Optimization and their Applications, Narosa Publications Pvt. Ltd., New Delhi., pp, 20 -27.
- Divya Jain and K.K.Aggarwal (2010). “Optimal Ordering Policy with Inspection Errors and Learning Curve Consideration on Imperfect Quality Items”, Proceedings of the 45th Annual Conference of the Operations Research Society of New Zealand, Auckland, pp 249-258.

*c) Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences
4. Other publications (Edited works, Book reviews, Festschrift volumes, etc.)*

Conference Organization/ Presentations **(in the last three years)**

List against each head(If applicable)

Organization of a Conference

Participation as Paper/Poster Presenter

- Attended and chaired a session in International Conference on Recent Advances in Optimization Theory and Applications (RAOTA-2016), January 30-31, 2016, at University of Delhi, Delhi
- Attended and chaired a session in 7th International Conference on Quality, Reliability, Infocom Technology and Business Operations (ICQRITBO2015), Dec. 28-30, 2015 at University of Delhi, Delhi.
- Delivered an Invited Talk on, “Coordinating Inventory and Credit Granting Decisions” National Conference on Sampling Techniques and Related Areas at Department of Statistics and Operations Research Aligarh Muslim University March, 21-23, 2015
- Delivered an Invited Talk on, “Coordinating Inventory and Credit Granting Decisions” National Conference On Recent Trends and Developments in Statistics (NCRTDS) at Department of Statistics M.D. University, Rohtak, February 21-23, 2015
- Attended International conference on Operations Research for Data Analytics & Decision

Analysis In conjunction with the 46th annual convention of Operational Research Society of India (ORSI) held at University of Kashmir, Srinagar, 21-23 October, 2013.

- Attended and chaired a session in national conference on Recent Trends in Operations Research (NCRTOR-2013), held at Amity School of Engineering & Technology, New Delhi 11-12 April, 2013,.
- Attended and chaired a session in International Conference on Optimization Modelling and Applications held at University of Delhi, New Delhi, Nov. 29 – Dec. 1, 2012.
- Attended and chaired a session 6th International Conference on Quality, Reliability, Infocom Technology and Industrial Technology Management (ICQRITTM) held at University of Delhi, New Delhi, Nov. 26-28, 2012.
- Attended Academic Congress titled “Enabling the Young: Redefining Education” held at conference center, University of Delhi, New Delhi, 6-7 September 2012.

Awards and Distinctions

All India Post Graduate Scholarship (1987-1989)

Junior/Senior Research Fellowship (1991-1993), University Grants Commission, Delhi

Association With Professional Bodies

1. *Editing*

2. *Reviewing*

- **Computers & Industrial Engineering**
- **Applied Mathematical Modelling**
- **International Journal of Systems Assurance Engineering and Management**
- **International Journal of Innovation and Technology Management**

3. *Advisory*

4. *Committees and Boards*

i) *Member of Board of Research Studies (Mathematical Sciences), University of Delhi (2008-2010)*

ii) *Member of Board of Research Studies for the Humanities, University of Delhi (2005 – 2007)*

iii) *Member, Academic Council, University of Delhi, Delhi (2006 – 2010)*

5. *Memberships*

Life member Operational Research Society of India

6. *Office Bearer*

Other Activities