

Dr. R. P. Tripathi
Professor and Head
Department of Applied Sciences & Humanities
KNIT, Sultanpur, (UP)

Personal Information:

Name : **Rakesh Prakash Tripathi**
(Dr. R.P.Tripathi)

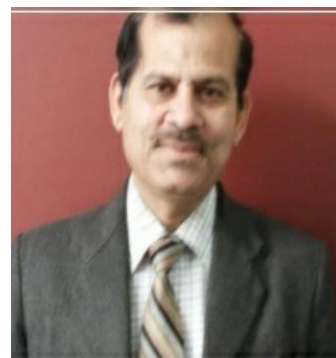
Father's Name : (Late) Sri Umakant Tripathi

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Current Official Address: Professor (Mathematics) & Head
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Academic Qualification:

- High school from UP Board Allahabad (UP)
- Intermediate from UP Board Allahabad (UP)
- B.Sc. (Physics, Chemistry, Mathematics), from DDU Gorakhpur University (UP)
- M.Sc. (Mathematics) from DDU Gorakhpur University (UP)
- Ph.D. in Mathematics from DDU Gorakhpur (UP)

Teaching Experience: 25 years

1. Professor (Mathematics) since 15.12.2017 and onwards at KNIT, Sultanpur (UP)
2. Professor since 01. 07. 2015 to 11.12.2017 at Graphic Era University Dehradun (UK).
3. Associate Professor since 27.08.2011 to 30.06.2015 at Graphic Era University Dehradun
4. Associate Professor since 01.02.2011 to 26.08.2011 at DIT, Dehradun (UK) India.
5. Assistant Professor since 01.03.2007 to 31.01.2011 at DIT, Dehradun (UK) India.
6. Senior Lecturer since 14.02.2006 to 28.02.2007 at DIT, Dehradun (UK) India.
7. Lecturer since 27.01.2004 to 13.02.2006 at DIT, Dehradun (UK) India.
8. Guest Lecturer since 18.09.2002 to 08.01.2004 at KNIT Sultanpur (UP).
9. Guest Lecturer since 01.08.2000 to 28.02. 2001 at MMM EC Gorakhpur (UP).
10. Subject Expert in Mathematics since 29 October 1999 to 08 May 2001 in Coaching Centre for Minorities in DDU Gorakhpur University (UGC Scheme).

No. of Published Research Papers: 133

i. Referred Journals:	111
ii. Non refereed Journals	10
iii. In Proc. of Conferences:	10

Ph.D. Guiding/Guided: 8 (Awarded), one Ph. D. Thesis is submitted

1. **Amit Kumar Uniyal** on the topic “EOQ Models with and without permissible Delay in Payments” Ph.D.degree awarded on 24/12/2016, from the Uttarakhand Technical University, Dehradun (UK) India.
2. **Manoj Kumar** on the topic “Optimal Ordering Policies with and without permissible delay in payments under deterioration rate” Ph.D. degree awarded 17/01/2017, from the Uttarakhand Technical University, Dehradun (UK) India.
3. **Manjit Kaur** on the topic “Study of Inventory Models with and Without Permissible Delay in Payments”Ph.D. Degree awarded on 25/01/2017, from Banasthali Deemed to be University, Rajasthan, India.
4. **S. M. Mishra** on the topic “EOQ Models under different demand rates” Ph.D. degree awarded on 18/05/2017, from the Uttarakhand Technical University, Dehradun (UK) India.
5. **S. K.Chaudhary** on the topic “Probabilistic EOQ models under inflation rates” Ph.D. degree awarded on 24/09/2017, from the Uttarakhand Technical University, Dehradun(UK) India.
6. **Neelam Rani Tyagi** on the topic “Effective and Efficient Methods for Sequencing and Scheduling in Various Problem Solving Environment” Ph.D. degree awarded on 13/10/2017, from Graphic Era Deemed to be University, Dehradun (UK) India.
7. **S.S. Tomar** on the topic “Optimal Ordering Policies with and Without Deterioration rates” Ph.D. degree awarded on 23/11/2017, from the Uttarakhand Technical University, Dehradun (UK) India.
8. **Mrs. Anita Singh** on the topic “Modeling , Simulation and Analysis of Automated target detection and Shooting objects” Ph.D. degree awarded on 29/7/2018, from Graphic Era Deemed to be University, Dehradun (UK) India.
9. **Hari Shyam Pandey** on the topic “Probabilistic EOQ model under inflation with and without shortage under permissible delay in payments” Ph.D. Thesis submitted (Dr. APJ Abdul Kalam Technical University,Lucknow).
10. **Sachin Mishra** on the topic ‘Development of some Economic Order Quantity (EOQ) Models under variable demand rate with and without trade credits’ perusing.
11. **Priyanka Mishra** persuing Ph.D. from BBD University, Lucknow.

Reviewer:

1. European Journal of Operational Research
2. Computers and Operations Research
3. IEEE Transactions
4. Two books on Engineering Mathematics I & II TMH Publications

5. Computer and Operations Research
6. Tamkang Journal of Mathematics, Taiwan, China
7. International Journal of Science, Engineering and Technology
8. International Journal of Production Research
9. International Journal of Mathematics , Engineering and Management

Editor:

- International Journal of Advances in Engineering Research (**IRA PUBLICATIONS**)
- Ramanjam Society of India

Expert in Public Service Commission / UPSC:

1. Uttarakhand Public Service Commission, Haridwar since 2013
2. Uttar Pradesh Public Service Commission, Prayagraj
3. Uttar Pradesh Higher education, Prayagraj
4. Bihar Public Service Commission, Patna

Administrative/ Academic responsibility:

1. Flying squad, Observer, central Controller, Nodal Officer in UPTU Semester, SEE examinations and UTU (UK) several times.
2. Head of Department of Mathematics at Graphic Era University, Dehradun from 19.11.2011 to 23.03.2017.
3. Head, Department of Applied Sciences and Humanities, KNIT, Sultanpur since 8.02.2019
4. Center superintendent of examination at KNIT, Sultanpur (UP) for the session 2018- 19.
5. The nodal officer academy at KNIT, Sultanpur (UP) (TEQIP III) since July 2019.
6. Member of Academic council at KNIT, Sultanpur (UP).
7. Member of the examination committee at KNIT, Sultanpur (UP) for the session 2018 – 19.
8. Chair of BOS of Mathematics at Dr. APJ Abdul Kalam Technical University, Lucknow (UP) India.
9. BOG member at KNIT, Sultanpur UP, India

Membership of Professional/ Academic Bodies:

1. Life member of National Academy of Mathematics, DDU Gorakhpur University,(UP)
2. Life member of Progress of Mathematics BHU,(UP), INDIA
3. Life member of Indian Society of Mathematical Sciences, Gorakhpur (UP),INDIA
4. Life membership of IAENG International Association of Engineers, Hong Kong

Short-Term Training Programs/FDP Attended:

1. Matrix Computations & Applications in IIT Guwahati, Dec. 18- 22, 2006.

2. Qualified Learning System Co.INC. (USA)” Blue Print for Success in DIT Dehradun, Nov,18- 20, 2006.
3. Computational Aspect of Mathematics in SIET Sangrur (Punjab) May, 22- 27, 2006.
4. Role of Institutions in Developing Science &Technology in Rural Areas in DIT, Dehradun on 20th January 2006
5. Finite Element Method & Applications in DIT Dehradun, Aug. 8-10, 2005.
6. Fundamental of Numerical Computing in IIT Guwahati, June, 6- 11, 2005.
7. Core Teaching Skill in NITTTR Bhopal, July 14- 25, 2009.
8. Workshop and Brain storming session on water Quality Management & River Bank
9. Filtration (RBF), Graphic Era University, Dehradun (UK) India, and January 07, 2012
10. Induction Training Programme through ICT, by NITTTR Chandigarh, between 11:03:2013 to 15:03:2013.
11. One day workshop on ‘NBA Accreditation Regulations and Procedure on July, 27, 2019 sponsored by TEQIP- III organized by MNIT, Allahabad.
12. One day workshop on ‘Outcome Based Education & NBA Using digital Platform’ on Sep. 4, 2019 sponsored by TEQIP- III organized by KNIT, Sultanpur (UP) India
13. One day workshop on “Equality Action Plan & Civil Works under TEQIP- III conducted on 13th September 2019 at State Project Implementation Unit – UP) Lucknow
14. One day workshop on Micro- review of program preparedness for NBA Accreditation conducted on 5th March, 2020 at State Project Implementation Unit- Uttar Pradesh

Book Published/ Chapters: 8/1

1. Engineering. Mathematics II & III for RGPV (Bhopal), Publisher Ram Prasad & Sons Agra (ISBN NO.81-89352-03-2 & 81-906222-3-3) (TWO BOOKS For RGPV, Bhopal).
2. Engineering. Mathematics I, II and III for UPTU Luck now, Publisher Ram Prasad & Sons Agra (THREE BOOKS for UPTU, Lucknow). (ONE BOOK for UTU).
3. Research Book, Development of Inventory models for deteriorating items & Trade credits, LAP LAMBERT Academic Publishing (ISBN No.978-3-369-88991-2).
4. Research Book, Some Investigations on Inflation Induced EOQ models, LAP LAMBERT Academic Publishing (ISBN No.978-3-659-90276-5).
5. Book chapter 20 in the book entitled “Optimizing innovating and capitalizing on Information System for Operations” IGI Publications USA, 2012. ISBN 13: 9781466629257, ISBN 10:1466629258 DOI: 10.4018/978-14666-2925-7.

Conference Organized/ Member/ Session Chair:

1. 2nd International conference on Mathematical Techniques in Engineering Applications (ICMTEA, 2013, held between Oct., 24-25, 2013 as a member of Organizing Committee (coordinator) (Graphic Era Deemed to be University, Dehradun, U.K.).
2. International conference on Mathematical Techniques in Engineering Applications (ICMTEA, 2016), held on April, 29- 30, 2016 as a member of Organizing Committee (Graphic Era Deemed to be University, Dehradun, U.K.)
3. An induction program for B. Tech and MCA 1st year students organized by KNIT,

- Sultanpur under the aegis of world bank TEQIP-III organized during Jan 26 – Feb. 01, 2018 (Organizing member).
4. Chair the Session in the National conference on Computer and Characterization Techniques in Engineering and Sciences (Sept. 06 – 07, 2019 at Rajkiya Engineering College Ambedker Nagar (UP) India.
 5. Worked as Chairman in one week Short Term Course on “Operations Research: Techniques and Application (Feb. 03 – 07, 2020) at KNIT, Sultanpur UP) India.
 6. Chair the Sessions in the on line conference :International Conference on Advancementss in Engineering and Sciences”(July 01 – 02, 2021 at Graphic Era Hill University, DehradunRajkiya Engineering College Ambedker Nagar (UP) India.

Invited Talk/ Expert Lecture:

1. National conference on History of Mathematical Sciences (NCHMS) held between Oct., 05-07, 2017, delivered a talk on “Some Aspects of Optimization in Economic Order Quantity (EOQ) Using Fuzzy Systems”.
2. 2nd International Conference on Modern Mathematical Methods and High performance computing in Science and Technology held in IPEC, Ghaziabad between Jan, 4 – 6, 2018, delivered a talk on “Application of Fuzzy systems in Science and Technology”.
3. 2nd National Conference on Recent Investigations in Emerging Technology & Science held in JB Institute of Technology, Dehradun (UK) between April, 7 – 8, 2018.
4. Delivered invited talk on the topic “Application of Probability and Probability Distribution in Science and Engineering”.
5. One week faculty development program at HBTU, Kanpur (UP) between Oct, 08– 12, 2018, on “Mathematical Modeling and Research Methodology” Organized by the Department of Mathematics, School of Basic Sciences.
6. International conference in KIET, Ghaziabad (UP) India on the topic “Innovative approach of Optimization in Science & Engineering”.
7. One week faculty development program at Rajkiya Engineering College, Ambedker Nagar (UP) India on “ Essential of Teaching- Learning Process and Research Methodology between Feb. 04 – 08, 2019, organized by department of Electrical Engineering.
8. One week short term course on Practical Aspects of Optimization (PAO-2019) Topic “Application of Optimization techniques in Science and Engineering” at KNIT, Sultanpur (UP) India, Aug. 01 – 05, 2019.
9. 3rd National Conference on Recent Innovation in Emerging Technology & Science, Organized by JB Institute of Technology, Dehradun (UK) India Topic “Application of Optimization using Project Management by PERT & CPM, Aug. 09-10, 2019.
10. National Conference on Computational and Characterization Techniques in Engineering & Science (CCTES-19) Topic “Some Idea of Optimization with Project Management by PERT & CPM. REC, Ambedkar Nagar, Sept. 06- 07, 2019.
11. National conference on “Number Theory, Special Functions and their Application in Computer Science organized by Department of Mathematics, organized by TD College Jaunpur (UP) on topic of expert lecture “Some Application of Optimization in Science

- and Engineering” held between Nov. 08 – 10, 2019.
12. AICTE Sponsored Two weeks FDP on Process Improvement Methodologies Lean & Six Sigma held at KNIT, Sultanpur (UP), between Nov. 20 Dec. 01, 2019.
 13. One week Short term Training Program on “Simulation Techniques for Engineering Research organized by KNIT, Sultanpur (UP) India on the topic “Simulation Techniques for Engineering Research between Nov. 14 – 19, 2019.
 14. One week Short Term Course on “Operations Research: Techniques and Application Organized by KNIT, Sultanpur (UP) India, between Feb. 03 – 07, 2020, topic of lecture in “Inventory Control”.
 15. Vedio Lector on “Introduction to Measures of Central Tendency”AKTU Digital Education (Swayam Prabha), www.youtube.com , <https://youtu.be/e80QfcYuXnE>.
 16. Vedio Lector on “Moments and Moment Generating Function”AKTU Digital Education (Swayam Prabha), www.youtube.com , <https://youtu.be/TXeugabs2uc>.
 17. Vedio Lector on “Skewness and Kurtosis”AKTU Digital Education (Swayam Prabha), www.youtube.com , <https://youtu.be/C1AL2EMGe-k>.
 18. Vedio Lector on “Curve Fitting : Method of Least Square.Fitting of straight lines”AKTU Digital Education (Swayam Prabha), www.youtube.com , <https://youtu.be/C9qSISDHjX4>.
 19. Vedio Lector on “Multiple integrals: Double Integrals”AKTU Digital Education (Swayam Prabha), www.youtube.com .
 20. Vedio Lector on “Change of order of Integration”AKTU Digital Education (Swayam Prabha), www.youtube.com .
 21. Vedio Lector on “Triple Intrgrals”AKTU Digital Education (Swayam Prabha), www.youtube.com ,
 22. Vedio Lector on “Change of Variables”AKTU Digital Education (Swayam Prabha), www.youtube.com.

Conference Presentation of Research Paper:

a) International Conferences:

1. Sixth International Conference of the International Academy of Physical Sciences on Emerging Dimensions in DDU Gorakhpur University. Feb. 6-8, 2004.
2. Ninth International Conference held in BR Ambedker University, Agra, Feb. 3-5,2007.
3. International Conference on development &Applications of Statistics on Emerging Areas of Science & Technology (University Of Jammu, Dec, 8-10, 2010).
4. XXXV Annual (International Conference) Convention of Indian Society for Probability and Statistics (ISPS), Organized by Department of Statistics, Lucknow University,(UP), India , Nov.28-30, 2015.
5. CONIAPS XVIII, 18th International Conference of International of Physical Sciences on Recent Trends in Physical Sciences Faculty of Science, University of Allahabad, India held on Dec 22-24, 2015.
6. 2nd ICMTEA 2016, Graphic Era University, Dehradun (UK), held in April. 20-30, 2016.

7. International conference on Recent innovation in Sciences, Management, Education & Technology, JCD Memorial College, Barnala Road, Sirsa, Haryana, on Sept.4, 2016.
8. International Conference on Hospitality and Tourism, Graphic Era University, Dehradun held on Jan.20-21, 2017.
9. International Conference on Challenges & Opportunities for Technological Innovation in India (COTII-2017) ,Topic “Inventory model for deteriorating items with quadratic time induced demand under permissible delay in payments at Ambalika Institute of Management and Technology, Lucknow on March, 3- 4, 2017.
10. 2nd International Conference on “Challenges & Opportunities for Technological Innovation in India (COTII-2018) , Topic “An EOQ model for Weibull distribution demand under shortages and permissible delay in payments” held in the Ambalika Institute of Management & Technology, Lucknow (March, 3- 4,2018)
11. 2nd International Conference held 7th & 8th Feb. 2019 at KNIT, Sultanpur (UP) India with Development of EPQ Model with time induced demand under reduction Delivery.

b) National Conferences:

1. National Conference (CORTPAM), at DDU Gorakhpur University July, 11-12, 2009.
2. National Conference at SGRRPG College Dehradun, Nov, 14-15, 2009.
3. 7th National Conference of Indian Society of Mathematical Sciences at, Gorakhpur Feb, 20- 21, 2010.
4. National Conference held (CORTPAM) on DDU Gorakhpur University, July,24-25,2010.
5. 8th National Conference of Indian Society of Mathematical Sciences, Gorakhpur (UP) Gorakhpur, Feb, 19- 20, 2011.
6. National conference on Recent Trends in Pure and Applied Mathematics (CORTPAM) July, 24-25, 2011 at DDU Gorakhpur University.
7. 9th National Conference of Indian Society of Mathematical Sciences, Gorakhpur (UP), Gorakhpur, Feb. 25- 26, 2012.
8. NAAC Sponsored National seminar at SGRRPG College, Dehradun, Oct.9- 10,2015.
9. 2nd national conference on recent advances in Sciences & Technology, Seemant Institute of Technology Pithoragarh Uttarakhand held on August 29- 30, 2016.
10. National Conference on Recent Innovations in Emerging Technology & Science at JB Institute of Technology, Dehradun (UK) India (March, 3- 4, 2017).
11. National conference on Future Innovations & Research in Science & Technology at IIMT Engineering College, Meerut (April 22- 23, 2017), topic of presentation “Sequencing and scheduling methodologies”.
12. National Conference on Recent Technological trends in environmental issues need and Challenges held at Krishna College of Science and Information Technology Bijnor (UP) on 21st Jan, 2018, topic of presentation “Application of Operations Research in Science and Technology”.
13. 2nd National Conference on Recent Innovations in Emerging Technology & Science at JB Institute of Technology, Dehradun (UK) India (Between April 7- 8, 2018) topic of Presentation “A new Heuristic Algorithm to Minimize the Rental cost of a Single

Machine.

14. 3rd National conference on Recent Innovations in Emerging Technology & Science at JB Institute of Technology, Dehradun (UK) India (Between Aug. 09- 10, 2019) topic of Presentation” Deterministic two machine flow shop scheduling model with rental cost.

List of Publications:

1. EOQ model for time dependent demand with deterioration, inflation, shortages and trade credits. Accepted in International Journal of Information and Decision Sciences on 18:05:2020.
2. Establishment of EOQ strategy for time sensitive deterioration and non – increasing time- linked demand under trade credits. Accepted on 9th March 2021, in *International Journal of Mathematics in Operational Research*.
3. Innovative approach of EOQ structure for decaying items with time sensitive demand, cash- discount, Shortages and Permissible delay in payments. *International Journal of Applied and Computational Mathematics* on, Vol, 7, No.3, pp. 1-16.
4. Optimal ordering policies in economic production quantity (EPQ) model with Exponential time – dependent demand and diminishing release strategy. Accepted in Int. J. of Logistic System and Management on 9th March , 2021.
5. A comprehensive study of EOQ (Economic Order Quantity) System for Spoilage commodities with stock - sensitive demand and Trade Credits. *International Journal of Applied and Computational Mathematics* ,Vol.7,No.2,pp. 1-19 (2021).
6. A Comarative study of purchasing EOQ (Economic Order Quantity) models for non-deterioration and deteriorating items under stock-linked and exponential demand. JNANABHA , Vol. 50 (2), pp.244 – 253, 2020.
7. Development of Optimal ordering strategy, with power demand and changeable deterioration under allowable delay in payments. *International Journal of Information and Decision Sciences*, Accepted 12th Oct. 2020.
8. Establishment of trader’s optimal pricing Strategy for fresh product and used product with stoch and trade cost associated demand. Accepted in *International Journal of Computing Science and Mathematics* on Sept. 8, 2020.
9. Comprehensive Economic Order Quantity (EOQ) Model for Weibull decline with Negative Exponential Demand under trade credits. Accepted in *International Journal of Mathematics in Operational Research* on Sept. 6, 2020.
10. Innovative approach of EOQ structure for vanishing items with time sensitive demand, cash discount, shortage and Permissible delay in payment. Accepted in *International Journal of Operational Research* on, July, 2020.
11. Some investigations on cost, study for Economic Order Quantity model (EOQ) by quantity declined under time - associated demand and non-steady holding cost". *International Journal of Computational Systems Engineering*, Vol. 6, No.3(2020), pp. 109 - 114.
12. Economic Production Quantity mode for deteriorating items for three stage system with Partial Backlogging. *Thai Journal of Mathematics*, Vol. 18, No.2,pp.775-774 (2020).
13. Shortage Linked EOQ model for Weibull-time unstable demand in the company of Permitted delay in Payments. *International Journal of Supply Chain and Inventory Management* ,Vol.3, No. 2, pp. 124 – 141 (2020).
14. Optimal ordering policies for non- instantaneous Weibull deteriorating items with price linked demand under trade credits. *International Journal of Supply Chain and Inventory*

- Management* Vol.3, No.2, pp. 77 – 92 (2020).
15. Innovative Study of Economic Order Quantity Model for Quadratic Time- Linked Demand under Tolerable Delay in Payments with Inconsistent Holding Cost and Associated Salvage Value. *International Journal of Computational Systems Engineering*, Vol. 6, No.1, pp. 52 - 62 (2020).
 16. Innovative approach of Stock- linked demand dependent production Inventory model with Decline Deterioration. *International Journal of Inventory Research* Vol. 5, No. 4, (2020), pp.251 – 262.
 17. Innovative investigation of stock- sensitive demand induced EOQ (Economic Order Quantity) Model for deterioration by means of inconsistent holding cost Functions. *SN Applied Sciences* , Vol.5, No. 4, pp. 1-8, (2020).
 18. Innovative study of EPQ model with time induced demand under decline release policy. *International Journal of Supply Chain and Operations Management*, Vol. 6, No.3, pp. 264 – 275 (2019).
 19. A purchasing Inventory Model for fading products with non-scaling demand under stock-induced holding cost with and without shortage. *International Journal of Modern Mathematical Sciences* , Vol.17, No2, pp.151-168 (2019).
 20. Innovation of Economic Order Quantity (EOQ) model for deteriorating items with time-linked quadratic demand under non – decreasing shortages. *International Journal of Applied and Computational Mathematics*, Vol. 5, No.5, pp. 1 -13 (2019).
 21. Economic Order Quantity Models for price Dependent Demand and different holding cost functions. *Jordan Journal of Mathematics and Statistics*, Vol. 12, No. 1, pp. 15 – 33 (2019).
 22. Inventory control model using a discounted cash flow approach under multiple supplier's trade credit and stock-dependent demand for deteriorating items. *International Journal of Inventory Research*, Vol.5 No. 3, pp.210 – 223 (2019).
 23. Inventory model with Quantity discount, pricing and partial backlogging for deteriorating items. *International Journal of Operational Research*, Vol. 35, No. 2, pp. 208 – 223 (2019).
 24. Establishment of EOQ model with quadratic time – sensitive demand and parabolic- time linked Holding cost with salvage value. *International Journal of Operations Research*. Vol.15, No. 3, pp. 135 – 144 (2018).
 25. Deterministic Inventory models with non- linear time- dependent & stock- dependent holding cost under non- increasing time- sensitive demand. *International Journal of Economics and Business Research*, Vol.16, No.3, pp.326 - 336 (2018).
 26. Development of Inventory model for inventory induced demand and time- dependent holding cost for deteriorating items under inflation. *International Journal of Supply Chain and Inventory Management*, Vol. 3, No.1, pp.18 – 29 (2018).
 27. Inventory Models for Stock-Dependent Demand and Time Varying Holding Cost under Different Trade Credits. *Yugoslav J. of Operations Research*, Vol.28, No.1, pp. 139 – 151 (2018).
 28. Establishment of EOQ (Economic Order Quantity) model for spoilage products and power demand under permissible delay in payments. *International Journal of Applied and Computational Mathematics*, Vol. 4, No. 2, 2018 , pp. .
 29. A Linear time-dependent deteriorating Inventory model with linearly time- dependent demand rate and inflation. *International Journal of Computing Science and Mathematics*, Vol. 9 No.4, pp.352 – 364 (2018).
 30. Economic order Quantity (EOQ) Model when the demand is price and time sensitive using preservation techniques. *Shanlax International Journal of Management* , Vol.5, No. 2, pp. 28 – 35 (2017).
 31. Establishment of an EOQ with Non-Increasing Demand for Two Credit Periods under

- Deterioration and Time Discounting. *Indian Journal of Science and Technology*, Vol 10, No.29, pp. 1-19 (2017).
32. Image Restoration in Noisy Free Images Using Fuzzy Based Median Filtering and Adaptive Particle Swarm Optimization - Richardson- Lucy Algorithm. *International Journal of Intelligent Engineering and Systems*, Vol. 10, No .4, pp. 50- 59, (2017).
 33. EOQ Model With Finite Planning Horizon for deteriorating items of Exponential Demand under shortages. *International Journal of Computational and Applied Mathematics*, Vol.12, No 2, pp. 545-555 (2017).
 34. EOQ model with time induced demand, trade credits and price discount on shortages: A periodic Review. *Global Journal of Pure and Applied Mathematics* , ISSN No. 0973-1768 Vol.13,No 8, pp. 3961- 3977, (2017).
 35. Optimal Ordering and Transfer Policy for an Inventory with Non- Increasing Time-dependent demand. *International Journal Modern Mathematical Sciences* , Vol. 15(2) pp.237-247 (2017).
 36. An EOQ Model for Weibull Distribution deterioration with Exponential Demand under linearly time dependent shortages. *International Journal of Computational and Applied Mathematics* , Vol.12, No. 1, pp. 81-98 (2017).
 37. An EOQ model for deteriorating items with Weibull time- dependent demand under shortages. *Uncertain Supply Chain Management*, Vol.5(4), pp.327-336, (2017).
 38. Optimal lot sizing policy with power demand and Composed Shortages under trade credits. *International Journal of Knowledge Management in Tourism and Hospitality*. Vol. 1, No. 1, pp. 20-39 (2017).
 39. Inflationary Induced EOQ model for Weibull Distribution Deterioration & Trade Credits. *International Journal of Applied and Computational Mathematics*, Vol. 3, No. 4, pp. 3341- 3353 (2017).
 40. EOQ Model with Stock-Level Dependent Demand and Different Holding Cost Functions. *International Journal of Operations Research and Information Systems*, Vol. 8, No.4, pp. 59- 75 (2017).
 41. Inventory models with power demand and inventory- induced demand with holding cost. *American Journal of Applied Sciences*, Vol. 14,No.6, pp. 607-613(2017).
 42. Optimal ordering policy under two stage trade credits financing for deteriorating items using discounted cash flow (DCF) approach. *International Journal of Process Management and Benchmarking*, Vol.7, No.1, pp.120-140, (2017).
 43. Three Machines Flow Scheduling Model with Bicriterion Objective Function. *Indian Journal of Science and Technology*,9(48), pp. 1-14 (2016).
 44. Stochastic Flowshop Scheduling Model for Two Machines. *Journal of Graphic Era University*, 5, No.1, pp.34-44 (2017).
 45. EOQ model for Exponential demand variable deterioration, shortages and Production cost. *International Journal of Applied & Computational Mathematics*, Vol.3, No.2, pp., 1407–1419 (2017).
 46. Flexible Flowshop Scheduling Model with Four Stages. *Indian Journal of Science and Technology*, Vol.9, No. 42, pp. 1-11 (2016).
 47. Single Machine Scheduling Model with Total Tardiness Problem. *Indian Journal of Science and Technology*, Vol. 9 (37), pp.1-14 (2016).
 48. Optimal ordering policy for deteriorating items under price sensitive demand scheme. *International Journal of Applied and Computational Mathematics*, Vol.3, No..3, pp 2761–2777 (2016).
 49. Single Machine Scheduling Model for total Weighted Tardiness. *Indian Journal of Science and Technology*, Vol. 9, No. 31, pp. 1-8 (2016).
 50. Optimal ordering policy with non-increasing demand for time dependent deterioration

- under fixed life time production and permissible delay in payments. *International Journal of Operations Research*. Vol. 13, No. 2, pp. 35- 46 (2016).
51. Optimal order policy for deteriorating items with permissible delay in payments and non-linear holding cost. *International Journal of Modern Mathematical Sciences* ,Vol. 14,No. 3, pp. 335–351 (2016).
 52. Deterministic EOQ models for non linear time induced demand and different holding cost functions. *Journal of Advances Mathematics*, Vol.12, No. 3, pp. 5953-5963 (2016).
 53. EOQ model for deteriorating items with stock- dependent demand under Inflation and Trade credits. *International Journal of Productivity and Quality Management* , Vol. 21, No. 2, 2017, pp. 229-244 (2016).
 54. Economic Order Quantity (EOQ) Model for Weibull Deteriorating Items and Exponential Demand under Conditions of Permissible Delay in Payments. *International Journal of Modern Mathematical Sciences*, Vol. 14, No.2,pp. 100 –115 (2016).
 55. Economic Ordering Policies under credit financing for deteriorating items with stock-dependent demand rate using discounted cash flow (DCF) approach. *International Journal of Management Science and Engineering Management*, Vol.12,No.2, pp.111–118,(2016).
 56. Economic Production Quantity model for defective items under deterioration. *Uncertain Supply Chain Management*, Vol . 4 . No . 3, pp. 221-232 (2016).
 57. Inventory model for deteriorating items with quadratic time dependent demand under trade credits. *Int. J. of Supply and Operations Management*, Vol. 2, No. 4, pp. 1064-1078 (2016).
 58. Optimal Ordering policy with inventory dependent demand for deteriorating items under non-decreasing shortages and inflation. *International Journal of Modern Mathematical Sciences*, Vol. 14, No.1 pp. 42- 53 (2016).
 59. EOQ model with linear time dependent Demand and different holding cost functions. *International Journal of Mathematics in Operational Research*, Vol.9, No.4, pp.452-466 (2016).
 60. Image Restoration using Modified binary particle Swarm Optimization Richardson-Lucy (MBSO-RL) algorithm. *International Journal of Applied Engineering Research*, Vol. 10, No. 22 , pp 43077-43081(2015).
 61. Optimal ordering policy with stock- dependent rate under retailer’s two stages trade credit financing using discounted cash flow (DCF) approach. *Journal of Mathematics and Statistics*, Vol.11, No.3, pp.75 -87 (2015).
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