Faculty Profile

1. **Name: SUDHANSU KHANRA**

2. **Designation: Associate Professor**

3. **Name of the Department: Mathematics**

4. **E-mail ID: s_khanra@tmv.ac.in**

5. **WEB Page, if any:**

6. **Educational Qualifications (Graduation onwards):**

Examination	Name of the University/Institution	Year of Passing	Subject
B.Sc.(Hons)	Uluberia College(Calcutta University)	1996	Mathematics
M.Sc.	Jadavpur University	1998	Mathematics; (Special Paper-Operations Research).

7. **Research Degree(s):**

Degree	Name of the Degree Awarding Institution	Date of Award	Title
Ph.D	Jadavpur University	10.05.2006	Mathematical Models of Some Problems In Inventory Control

8. **Teaching Experience (in Years): 19 years**

9. **Specialization/Expertise/Teaching Area:**

10. Courses Taught: I. Hons-C1, C3, C5, C8, C11, DSE3(Mechanics) & DSE4(Mathematical Modelling)
II. GE-C1
III Gen- SEC4 (Probability and Statistics)

11. Present Research Activities, if any:

I. Research Guidance **:** One : Sri Budhhadev Mandal (awarded From Vidyasagar University, W.B.)

II. Co-Supervisor of Chandan Pathak enrolled in Kazi Nazrul University, Assansole, W.B.
III. Research Area- Inventory and Supply Chain Management

12. Major/Minor Research Project(s) Undertaken/Completed :
Minor Research Project-One (UGC) 2006-2008

Title: Some Problems In Inventory Management: Using Operations Research Techniques.

13. Publications and Others:
  A] Books Published:

  B] Research Papers in International/National Journals: 15

1. **S.Khanra**, K.S. Chauduri,A Note On An Order Level Inventory Model For A Deteriorating Item With Time Dependent Quadratic Demand", *Computers & Operations Research,* **30** (2003) pp. 1901-1916.

2. **S.Khanra**, S.S.Sana, K.S. Chauduri, An EOQ Model For Perishable Item With Time Stock and Price Dependent Demand Rate", *International Journal of Mathematics in Operations Research*, **2 (3)** (2010) pp. 320-335**.**

3. S.K. Ghosh, **S.Khanra,** K.S. Chauduri, Optimal Price And Lot Size Determination For A Perishable Product Under Conditions Of Finite Production, Partial Backordering And Lost Sale". , *Applied Mathematics and Computation,* **217** (2011) pp. 6047-6053.

4. **S.Khanra**, K.S. Chauduri, An EOQ Model With SFI Policy For A Time Quadratic Demand", *International Journal of Mathematics in Operations Research*, **10(3) (2011)**- pp. 257 – 276.

5. S.K. Ghosh, **S.Khanra,** K.S. Chauduri ,An EOQ Model For A Deteriorating Item With Time-Varying Demand And Time-Dependent Partial Logging". *International Journal of Mathematics in Operations Research*. vol **3 (3)** (2011) pp. 264-279.

6. S.K. Ghosh, **S.Khanra,** K.S. Chauduri ,An Inventory Model For A Deteriorating Item With Two Levels Of Storage And Stock-Dependent Demand" *International Journal of Mathematics in Operations research.* , vol **3 (2)** (2011) pp. 186-197.

7. **S.Khanra**, S.K. Ghosh, K.S. Chauduri, An EOQ Model For A Deteriorating Item With Time Dependent Quadratic Demand Under Permissible Delay In Payment", *Applied Mathematics and Computation,*. **218** (2011) pp. 1-9.

8. **S.Khanra**, S.K. Ghosh, K.S. Chauduri, A Production –Inventory Model For A Deteriorating Item With Shortage And Time-Depended Demand" *Yugoslav Journal of Operations research*. Vol-**1**, (2011) pp. 29-45.

9. **S Khanra**, B Mandal, B Sarkar An Inventory with time dependent Demand and Shortages Under trade Credit Policy, *Economical Modeling*, Vol-35(2013), 349-355,

10. **S.Khanra**, K.S. Chauduri, *EOQ Models For Perishable Item With Variable Demand Incorporating Reduction Rate Of Selling Price, International Journal of Computer &Mathematical Sciences* . Vol-**4**, (2015) pp. 29-45.

11. **S Khanra**, B Mandal, B Sarkar , A Comparative Study Between Inventory Followed by Shortages and Shortages Followed by Inventory Under Trade Credit Policy, *International Journal of Applied and Computional Mathematics,* 1 (3), (2015), 399-426.

12. SK Ghosh, **S Khanra,** Channel coordination among a manufacturer and a retailer in two-layer supply chain, *International Journal of Applied and Computational Mathematics* 4 (1) (2018), 1-15

13. B Mandal, BK Dey, **S Khanra,** B Sarkar, Advance sustainable inventory management through advertisement and trade-credit policy, *RAIRO-Operations Research* 55 (1), (2021), 261-284

14. C Pathak, S Mukherjee, SK Ghosh, **S Khanra**, A three echelon supply chain model with stochastic demand dependent on price, quality and energy reduction, *Journal of Industrial & Management Optimization, (2021).*

15. **S Khanra**, K.S. Chaudhuri, An Order Level Inventory Model For A Perishable Item With Non-Linear Holding Cost And Stock Dependent Demand, Tamralipta Mahavidyalaya

C] Conference Papers:

b) National Conference

D] Conference / Symposium Attended (during last 5 years)
- **International Level**

Name of The Conference	Organizer, Date, Venue	Financially Supported by

Sl. No.	Title of the Paper Presented	Title of Conference/	Organized by	Whether

		Seminar		Whether International/National/State/Regional/College or university Level
1.	An EOQ model for a deteriorating item with a quadratic demand under inflation and time value of money with shortages in all cycles	International Conference on Frontiers in Applied Mathematics and Computational Aspects	Department of Applied Mathematics (University of Calcutta)	International 15.03.2011-17.03.2011.
2	An EOQ model for perishable item with variable demand rate-	International Conference on Recent Trends in Science & Technology (ICRTST-2013)	Department of Basic Science & Humanities & Department of Computer Science & engineering; College Of Engineering & Management, Kolaghat	International 27-29 Dec, 2013.

- **National Level**

Name of The Conference	Organizer, Date, Venue	Financially Supported by

Sl. No.	Title of the Paper Presented	Title of Conference/ Seminar	Organized by	Whether International/National/State/Regional/College or university Level
1.	An EOQ model for perishable item with time stock and price dependent demand rate.	One day Symposium on Perspectives of Operation Research &	Department of Applied Mathematics (University of	National-30.03.2005

		Optimization	Calcutta)	
2.	A Production –Inventory Model For A Deteriorating Item With Shortage And Time-Depended Demand	National Seminar On Mathematical Modeling	Department of Mathematics, Dibrugarh University, Assam	National (March 03-05, 2008)
3.	An EOQ Model For A Deteriorating Item With Stock Dependent Demand Rate And Non-linear Holding Cost	National Conference On Recent Advances in Mathematics And Its Application	Sikkim University, and Department of Mathematics, Sikkim Govt. College.	National (Appril-09th , 2008)
4.	An EOQ model for a deteriorating item with time dependent quadratic demand under permissible delay in payment.	National Conference on Mathematical Science and Applications: State of the Art (NCMSA 2010)	Department of Mathematics and Centre for Mathematical Biology and Ecology, Jadavpur University	National (14.01.2010-16.01.2010)
5.	An EOQ model with time dependent quadratic demand & shortages under permissible delay in payment	National workshop on Inventory and Transportation	Centre for Mathematical Sciences, Banasthali University, Rajasthan	National (15.03.12-18.03.2013)

E] Invited Lectures Delivered in Seminars/Webinars: (Title, Name of Seminar, Organizer Date and Venue):
    1.
    2.
F] Orientation Programme/Refresher Course/Short Term Course Completed:

Sl. No.	Program	Duration	Organized by
1.	11th National Science Camp	19.02.2003-25.02.2003	National Council of Science Museum(Govt. of India) & Digha Science Centre
2.	Orientation Programme	10.07.2006-05.08.2006	Academic staff College (Jadavpur University)
3.	Refresher Course: Numerical Methods With C and Mathematica	25.06.2007-14.07.2007	Academic staff College (Jadavpur University)
4.	UGC- Sponsored Short Term Course For Professional Development of Senior Teachers	10.02.2012-16.02.2012	Department of Applied Mathematics (University of Calcutta)
5,	Refresher Course: Mathematical Methods, Technique and Application	18.11.13-07.12.13	Academic staff College (Jadavpur University)

G] Articles Published in Magazines:
   1.
   2.
   3.
14. Awards and Recognitions, if any:

15. Membership of Reputed Bodies/Organizations including Professional Associations: Life Member-Operations Research of India

16. Significant Information, if any: