DR. BIMAL KUMAR SETT

Associate Professor of Mathematics

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- ❖ **Ph.D. Degree:** *Ph.D.* under the guidance of of *Dr. Biswajit Sarkar, Department of Industrial & Management Engineering, Hanyang University, South Korea* and under the co-guidance of *Prof. Adrijit Goswami* at the *Dept. of Mathematics, IIT, Khargapur, India* in title *"***Modelling on some problems on production planning and inventory management***".*

- ❖ **Research Experiences:** Worked as a junior researcher from 31st January, 2012 to 27th July, 2017 at Vidyasagar University, West Bengal, India, under the supervision of *Dr. Biswajit Sarkar, Department of Industrial & Management Engineering, Hanyang University, South Korea* and *Prof. Adrijit Goswami* at the *Dept. of Mathematics, IIT, Khargapur, India* in the field Operations Research, Production Planning, Smart Manufacturing System, Inventory Control.

- ❖ **Working Experiences:** Working as a *Lecturer* in *Mathematics, Darjeeling Government College (North-Bengal University), Darjeeling, West Bengal, India,* from 22nd June, 2006 to 5th December, 2009, *Assistant Professor of Mathematics, Hooghly Mohsin College (Burdwan University), Burdwan, West Bengal, India* from 6th December, 2009 to 1st September, 2021 and **Associate Professor of Mathematics, Kanyashree College (Under MAKAUT), Behala, Kolkata, West Bengal** from 2nd September, 2021 to till date..

- ❖ **Educational Qualifications:**

Examination	Name of the University	Year of passing	Marks obtained (%)	Class/ grade
B.Sc.	Calcutta University (Mathematics Hons.)	1995	63.50	1st
M.Sc.	Calcutta University (Applied Mathematics)	1997	65.90	1st
NET	CSIR-UGC	DEC-1999	-	-

GATE	Department of Education, MHRD	2000	PERCENTILE-95.06	RANK-38
B.Ed	Calcutta University	2002	60.90	1st

❖ Research Degree:

Degree	Name of the Univ.	Date of award	Title
Ph.D	Vidyasagar University	27-07-2017	Modelling of Some Problems on Production Planning and Inventory Management

❖ Published Papers:

Sl. No.	Title with page no.	Journal	ISSN/ISBN No.	Whether peer reviewed. Impact factor, if any
1.	A two-warehouse inventory model with increasing demand and time varying deterioration, 2012,1969-1977	Scientia Iranica	1026-3098	Yes, IF 0.76
2.	Mitigation of high-tech productions with probabilistic deterioration and inflations, 2015	American journal of industrial and business management	2164-5175	Yes
3.	Optimal replenishment policy with variable deterioration for fixed-lifetime products, 2016, 2318-2329	Scientia Iranica	1026-3098	Yes, IF 0.83
4.	Flexible setup cost and deterioration of products in a supply chain model 2015	International journal of applied and computational mathematics	2349-5103	Yes
5.	Optimal buffer inventory and inspection errors in an imperfect production system with preventive maintenance, 2016	International journal of advanced manufacturing technology	0268-3768	Yes. IF 2.209
6.	Optimal production run time and inspection errors in an imperfect production system with warranty, 2018.	Journal of industrial and management optimization	1547-5816	Yes, IF 1.18
7	A review and modelling on the critical management of the disaster debris of earthquake in Bhutan,(PP: 477–491).	The Regional Science Association International (RSAI) , published:: 15 April 2020	1757-7802	YES I.F=0.35

| 8 | The Effect of O2O Retail Service Quality in Supply Chain Management, (PP-1-36) | MATHEMATICS ,Published by MDPI

Published: 11 October 2020 | 2227-7390 | YES

I.F=1.747 |
| 9 | Automated Inspection Policy for Smart Factory—An Improved Approach,(PP-1-19) | MATHEMATICS ,Published by MDPI

Published: Published: 16 October 2020 | 2227-7390 | YES

I.F=1.747 |
| 10 | A Smart Production Process for the Optimum Energy Consumption with Maintenance Policy under a Supply Chain Management(PP-1-23) | PROCESSES

Published by MDPI

Published: 23 December, 2020 | 2227-9717 | YES

I.F=2.847 |

❖ Seminar / Workshop Attained

▪ International

- ◻ Presented a paper entitled "*An imperfect production process with optimal buffer inventory, inspection error and preventive maintenance*" in the **International Conference on "Emerging Trends in Inventory, Supply Chain & Reliability Modeling (ETISCRM 2018)**", organized by **Association of Inventory Academicians and Practitioners,** during December, 21-23, 2018.

- ◻ Presented a paper entitled "*A controllable production system with optimal non-inspected fraction and buffer inventory*" in the "*International Conference on Mathematics and its Applications (ICMA-2018)*", organized by **Department of Mathematics, The University of Burdwan, Golapbag, Burdwan, West Bengal, India,** during February, 15-17, 2018.

- ◻ **National**

- ◻ Presented a paper entitled "*Effect of Inspection error and preventive maintenance on an imperfect production syatem*" in the "*National seminar on Mathematics and its Applications (NSMA-2018)*", organized by **Department of Mathematics, University of Kalyani, Kalyani, West Bengal, India,** during February, 22-23, 2018.

▪ Workshop

- ◻ Participated in the "*National level teachers' enrichment workshop in mathematical science*"organized by **Calcutta Mathematical Society**, Kolkata-700064 **,** May 23-June 06, 2018.

❖ Interest of subjects:

- o Operations Research
- o Numerical Analysis
- o Fortrun, C Language

❖ Knowledge In Computer

- o Matlab
- o Mathematica
- o Latex

❖ Languages Known:

- o Bengali, English, Hindi.

❖ Declaration:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

Place: Chandannagar, Hooghly

Date: 01.05.2025   (BIMAL KUMAR SETT)