

Dr. Biswajit Mondal

Associate Professor

Mathematics

Education:

Degree	Year	University
Ph.D.	2004	Vidyasagar University
M.Sc.	1992	Calcutta University
B.Sc.	1990	Calcutta University

Teaching Experience: 18 years

Area of Research: Operations Research and Bio-Mathematics

Journal Papers:

1. Mondal B., Bhunia A, Maiti M., 2003, An Inventory System of Ameliorating Items for Price Dependent Demand Rates, Computers & Industrial Engineering, Vol-45, 443-456. Elsevier.
2. Mondal B., Bhunia A, Maiti M., 2003, Two Storage Fuzzy Inventory Model For The Demand Dependent On the Displayed Inventory Level, Vidyasagar University Journal of Physical Science, India, Vol-8, p 101 – 117.
3. Mondal B., Bhunia A, Maiti M., 2005, Inventory of partial Selling quantity model of ameliorating items with linear price dependent rate, AMO-Advanced Modelling and Optimization, Vol. 7(1), 145-154.
4. Mondal B., Bhunia A, Maiti M., 2006, Optimal Two – Species Harvesting policy with variable Amelioration rate, price and bio-mass of the fish population dependent Catch rate function, Tamsui Oxford Journal of Management Science, Vol. 22(4), 01-08.
5. Mondal B., Bhunia A, Maiti M., 2007, Optimal Two – Species Harvesting policy with price and size(bio-mass) of the fish population dependent Catch rate function, Applied Mathematics and Computation, Vol. 181(2), 600-608. Elsevier.

6. Mondal B., Bhunia A, Maiti M., 2007, A two storage inventory system under stock dependent demand rate incorporating marketing decisions and transportation cost with optimum release rule, *Tamsui Oxford Journal of Mathematical Science*, Vol-23(3), 243-267.
7. Mondal B., Discussion on Single Species fish population with time dependent growth rate, *Applied Mathematics and Computation*, Vol. – 194, 514 – 519 Elsevier.
8. Sandhukhan D., Mondal B., Maiti M., 2008, Discrete age-structured population model with age dependent harvesting and its stability analysis, *Applied Mathematics and Computation* Vol - 201, 631 – 639. Elsevier.
9. Mondal B., Bhunia A, Maiti M., 2009, Inventory models for defective items incorporating marketing decisions with variable Production rate, *Applied Mathematical Modelling*. Vol -33 2845 -2852, Elsevier.
10. Sandhukhan D., Mondal B., Maiti M., 2010, Food chain model with optimal harvesting in Fuzzy environment, *Journal of Applied Mathematics and Computation*, Vol.- 34, 1-18, Springer,
11. Sandhukhan D., Mondal B., Maiti M., 2011, A general Holling type model with optimal harvesting policies *Tribal World(A multidisciplinary effort)* Vol 1 102- 112 , ISBN NO. 81-88094-12-9
12. Mondal B. 2014, Bio-mathematical model Prey-Predator Model with Marine Protect Area(MPA) and Harvesting, *International Journal of Scientific & Engineering Research*, ISSN No. 2229-5518 Vol. – 5(9), 858-867
13. Sandhukhan D., Mondal B., Maiti M., 2015, A Food Web Population Model in Deterministic and Stochastic Environment , *Proceedings in Mathematics & Statistics* 125, DOI 10.1007/978-81-322-2301-6_21, Springer India,

Conference Papers:

1. Sandhukhan D., Mondal B., Maiti M., 2009, Discrete Age-structured population with Variable Fraternity and Age-dependent Harvesting, *Proceedings of the International Seminar on Modern Trends in Biological Science*, Dept. of Zoology, Raja N. L. Khan Women's College ISBN No. 978-81-89339-401
2. Mondal B. 2015, Bio-Economic Prey-Predator Model with Researve in Prey, *Proceedings of the National Seminar on Recent Trends in Bio-Mathematical Modelling Under Uncertain Environment*, Mugberia Gangadhar Mahavidyalaya, ISBN No 978-81-8487-522-5

Research Guidance:

Sl.	Ph.D/ M. Phil./ Dissertation (UG/ PG)	Title of the Research Work	Name of the Scholar	University	Status [Completed (Year)/ Ongoing]
1.	Ph.D.	Some Population Models with or without Age-structure	Dipankar Sadhukhan	Vidyasagar University	Completed, 2014
2.	PG	Discussion on Prey-predator Model with Holling type Response Function and Selective Harvesting	Nirmal Das	Vidyasagar University	Completed, 2015
3.	PG	Discussion on Prey-predator Model with Ratio dependent Response Function and Harvesting	Subhendu Pramanik	Vidyasagar University	Completed, 2015

Project Works:

Sl.	Funding Agency (Date and File No.)	Title of the Project Work	Name of the Scholar	Amount	Status [Completed (Year)/ Ongoing]
1.	University Grants Commission, F. No.42-14/2013(SR) Dated 12.03.2013	Bio-economic model on multi-species prey-predator sustainable marine fisheries along coastal side of the bay of Bengal in West Bengal		3,70,000=00	Ongoing
2.	University Grants Commission, PSW-098/05-06 (ERO)Dated 12.03.2013	Bio-economic Modelling of Singled and Multispecies fisheries for a fixed time period in riverside and rural area		1,00,000=00	Completed, 2008

Invite Lectures:

Sl.	Topic of the Lectures	Institute	Year
1.	Bio-Economic Prey-Predator Model with Researve in Prey	Mugberia Gangadhar Mahavidyalaya	2015

Membership of Learned Societies: Calcutta Mathematical Society, Indian Statistical Institute, Kolkata

Seminar/ Conference/ Workshop:

Sl.	Name of the (Seminar/ Conference/ Workshop)	Participated/ Presented Paper/ Session Chaired	Organizer, Venue and Year
1.	UGC sponsored Two-Day State level Seminar “Learning As Enjoying : Co-curricular and Recreational Activities in Mathematics”	Participated	Sevayatan Sikshan Mahavidyalaya, 2011
2.	National Seminar on “ Recent Developments in Applied Mathematics and its Applications”	Participated	Department of Applied Mathematics with Oceanology and Computer Programming, 2011
3.	UGC sponsored state level three-day workshop on C Language & its Application	Participated	Department of Mathematics, Kharagpur College 2012
4.	National level Seminar on Higher Education in India: 12 th five year plan	Participated	Department of Economics, Midnapur College, 2013
5.	UGC Sponsored National Seminar on “Recent Aspects in Mathematics and their Application”	Participated	Department of Applied Mathematics with Oceanology and Computer Programming, 2014
6.	Workshop for Revision of Syllabus for Honours and Pass Course of Vidyasagar University	Participated	Department of Applied Mathematics with Oceanology and Computer Programming, 2014
7.	5-Day National Workshop on “ Optimization and Fuzzy Mathematics”	Participated	Department of Applied Mathematics with Oceanology and Computer Programming, 2014
8.	2 nd International Conference on “Recent Aspects in Mathematics and its Application”	Participated	Department of Applied Mathematics with Oceanology and Computer Programming, 2015
9.	The UGC sponsored national Seminar on “Recent Trends in Bio-Mathematical Modelling Under Uncertain Environment”	Presented Paper	Department of Mathematics, Mugberia Gangadhar Mahavidyalaya