

FACULTY PROFILE



1. Name of the Faculty Member: Dr. Jayjayanti Ray

2. Designation with Category (Substantive/SACT): Associate Professor of Mathematics, Category-Substantive

3. Department: Mathematics

4. Educational and Professional Qualifications:

Name of the Institution	Name of the Affiliating Body	Degree/Diploma/Certificate Obtained	Specialization (if any)
IIT, Kharagpur	IIT	M.Sc. in Mathematics	
Jadavpur University	Jadavpur University	Ph.D.	

5. Teaching Experience (If applicable):

Name of the Institution	Position Held	From	To
Gokhale Memorial Girls. College, Kolkata-20	Faculty of Department of Mathematics	3.10.2002	till date

6. Research Experience (If applicable):

Name of the Institution	Nature of Work	Designation	From	To
Jadavpur University	Operations Research: Inventory Management	Research Fellow	1994	2000

7. Areas of Interest (Intra-disciplinary and/or Interdisciplinary): Vedic Mathematics, Fuzzy Theory, Logic, Application of Mathematics in different fields, Fishery Science, Inventory Management and optimization techniques, Mathematical Modelling.

8. Research Projects (if any): NA

9. Research Publications (if any):

a) Books/Book Chapters: NA

b) Journal Articles:

- “An EOQ model with stock-dependent demand, shortage, inflation and time discounting”, J.Ray & K.S. Chaudhuri, International Journal of Production Economics, 53 (1997) 171-180 (ISSN 0925-5273).
- “On an inventory model with two levels of storage and stock-dependent demand rate”, J.Ray, A.Goswami & K.S. Chaudhuri, International Journal of Systems Science, 1998, Volume 29, No. 3, pp. 249-254 (ISSN 0020-7721).
- “A Nonlinear EOQ Model with the Effect of Trade Credit”, J.Ray, International Journal of Nonlinear Science (IJNS), Vol.17(April, 2014) No.2, pp.135-144. ISSN:1749-3889 (print), 1749-3897 (online)
- “An Inventory Replenishment Policy”, J.Ray, ACADEMIA:GMGC Vol.1 Issue1 (May, 2014) 52 – 60 (ISSN: 2348-7054)
- “A Study of an Inflationary Inventory Model with Stock-Dependent Demand and Shortages”, J.Ray, International Journal of Mathematics Trends and Technology (IJMTT), Volume 10, No. 2 (June 2014) pp. 76-84 (ISSN: 2231-5373, Impact factor =2.369)
- “A dynamic reaction model of an inshore-offshore fishery with taxation as a control instrument”, J.Ray & T. Pradhan, IOSR Journal of Mathematics (IOSR-JM), Volume 10, Issue 4 Ver. VI (Jul-Aug. 2014), pp. 13-20 (e-ISSN: 2278-5728, p-ISSN: 2319-765X, Impact factor =1.312)
- “A dynamic reaction model of selective harvesting in a single species fishery with taxation as a control instrument”, T. Pradhan & J.Ray, International Journal of Advancement In Engineering Technology, Management and Applied Science (IJAETMAS), Volume 03, Issue 8 (Aug. 2016), pp. 50-58 (ISSN: 2349-3224)
- “A Note on Algebraic Equations From Vedic View Point”, J.Ray, International Journal of Informative & Futuristic Research (IJIFR) Volume - 4, Issue -9, May 2017, Page No. 7678-7689 (ISSN: 2347-1697, IJIFR Impact Factor (2016) = 6.051)
- “A Note on Fuzziness in Inventory Management Problems”, J.Ray, Advances in Fuzzy Mathematics (AFM), Volume 12, Number 3 (2017), pp. 663-676 © Research India Publications (ISSN 0973-533X Online ISSN 0974-0201).
- “Deterioration and its Uncertainty in Inventory Systems”, J.Ray, Global Journal of Pure and Applied Mathematics (GJPAM), Volume 13, Number 8 (2017), pp. 4003-4014 © Research India Publications (ISSN 0973-1768 Online ISSN: 0973-9750).
- “An EOQ Model with Certain Uncertainties When Payment Periods are Offered”, J.Ray, International Journal of Computational and Applied Mathematics (IJCAM), Volume 12, Number 2 (2017), pp. 365-389 © Research India Publications (ISSN 1819-4966).
- “Comparative Study of Gompertz and Logistic Laws of Growth Functions”, J.Ray & T. Pradhan, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol. 6, Issue 5, May 2017, pp. 9502-9510 [ISSN(Online) : 2319-8753 ISSN (Print) : 2347-6710]

c) Course Materials: NA

d) Seminar/Conference Proceedings: NA

10. Invited Talk/Special Lecture/Seminar/Conference Presentation: NA

11. Other Academic/Official Responsibilities (At College/University Level or for Any Other Body of Higher Education):

At Present: Member of P.F. Committee, Service Book & Leave Committee, Student Data Management Committee, Academic Journal Committee, NIRF Committee, PMU

Previously: Member of Admission Committee, Examination Committee, Magazine Committee, Library Committee, Academic Subcommittee, GMGC Pay Fixation Committee for ROPA-2019.

12. Awards/Recognitions/Fellowships/Memberships (if any): Life Member of Calcutta Mathematical Society, Life Member of Indian Science Congress Association (ISCA).

12. Social Responsibility Initiatives: Worked as a Member of the Blood Donation Committee of GMGC.