


## CURRICULUM VITAE

	Name		<b>DR. SUVANKAR BISWAS</b>
	Designation		Assistant Professor of Mathematics
	Contact Address		School of Sciences, Block-D, Indira Gandhi National Open University, IGNOU Headquarters, Maidan Garhi, New Delhi-110068
	No.	Office	011-2957-2837
	Email		<a href="mailto:sbiswas@ignou.ac.in">sbiswas@ignou.ac.in</a> / <a href="mailto:suvo180591@gmail.com">suvo180591@gmail.com</a>
<b>EDUCATIONAL QUALIFICATIONS</b>			
<b>Degree</b>	<b>Year</b>	<b>Institute/University</b>	
B.Sc.	2011	West Bengal State University.	
M.Sc.	2013	Bengal Engineering and Science University, Shibpur (Recently, Indian Institute of Engineering Science and Technology, Shibpur). ( <i>1<sup>st</sup> Class 1<sup>st</sup>, Gold Medalist</i> )	
Ph.D.	2018	Indian Institute of Engineering Science and Technology, Shibpur.	
<b>CAREER PROFILE</b>			
<ul style="list-style-type: none"> <li>● WORKING AS FACULTY MEMBER IN SCHOOL OF SCIENCES, INDIRA GANDHI NATIONAL OPEN UNIVERSITY SINCE APRIL, 2021.</li> <li>● WORKED AS FACULTY MEMBER IN SONARPUR MAHAVIDYALAYA (AFFILIATED TO THE UNIVERSITY OF CALCUTTA) FROM 2020 TO 2021.</li> <li>● WORKED AS FACULTY MEMBER IN TECHNO MAIN SALT LAKE FROM 2018 – 2019.</li> <li>● SRF (DST-INSPIRE) IN INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR FROM 2016- 2018.</li> <li>● JRF (DST-INSPIRE) IN INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR FROM 2014-2016.</li> </ul>			

**Areas of Interest:** Fuzzy Set and Systems, Numerical Analysis, Differential Equations, Integral Equations, Fractional Calculus.

#### **ROLE AND RESPONSIBILITIES AT IGNOU**

- Course coordinator of the following courses:
  - MMT-007 (Differential Equations and Numerical Solutions)
  - MMT-009 (Mathematical Modeling)
  - MTE-14 (Mathematical Modeling)
  - MTE-08 (Differential Equations)
  - MTE-04 (Elementary Algebra)
- Writing, editing and transformation of course units.
- Review of Research articles
- Preparation and submission of research papers in reputed journals.
- Deliver the IRC sessions at Gyan Vani EMPC, IGNOU.
- Mathematics Discipline Group Coordinator from time to time.

#### **NUMBER OF PUBLICATIONS - 16**

##### **A. Book Chapter: 03**

1. Moi, S., **Biswas, S.**, Pal (Sarkar), S. (2021). Neutrosophic Linear Differential Equation with a New Concept of Neutrosophic Derivative. In: Smarandache, F., Abdel-Basset, M. (eds) Neutrosophic Operational Research. Springer, Cham. [https://doi.org/10.1007/978-3-030-57197-9\\_19](https://doi.org/10.1007/978-3-030-57197-9_19)
2. Mondal, B., **Biswas, S.**, Garai, A., Roy, T.K. (2020). Posynomial Geometric Programming in EOQ Model with Interval Neutrosophic Number. In: Castillo, O., Jana, D., Giri, D., Ahmed, A. (eds) Recent Advances in Intelligent Information Systems and Applied Mathematics. ICITAM 2019. Studies in Computational Intelligence, vol 863. Springer, Cham. [https://doi.org/10.1007/978-3-030-34152-7\\_34](https://doi.org/10.1007/978-3-030-34152-7_34).
3. Garai, A., Chowdhury, S., **Biswas, S.**, Roy, T.K. (2020). Optimization of Multi-objective Stochastic Linear Programming Problem in Fuzzy Environment: An Iterative-Interactive Optimization Process. In: Castillo, O., Jana, D., Giri, D., Ahmed, A. (eds) Recent Advances in Intelligent Information Systems and Applied Mathematics. ICITAM 2019. Studies in Computational Intelligence, vol 863. Springer, Cham. [https://doi.org/10.1007/978-3-030-34152-7\\_21](https://doi.org/10.1007/978-3-030-34152-7_21)

## **B. Papers in Refereed/Peer reviewed Journals: 12**

4. **Biswas, S.,** Moi, S. & Sarkar, S.P. Study of Interval Type-2 Fuzzy Singular Integro-Differential Equation by Using Collocation Method in Weighted Space. *New Mathematics and Natural Computation*. 18, 113-145 (2022). <https://doi.org/10.1142/S1793005722500077>
5. **Biswas, S.,** Moi, S. & Sarkar, S.P. Numerical integration of neutrosophic valued function by Gaussian quadrature methods. *Arab. J. Math.* 11, 189-211 (2022). <https://doi.org/10.1007/s40065-022-00367-z>
6. Moi, S., **Biswas, S.** & Sarkar, S.P. A New Collocation Method for Fuzzy Singular Integro-Differential Equations. *Int. J. Appl. Comput. Math* 8, 65 (2022). <https://doi.org/10.1007/s40819-022-01263-y>
7. Moi, S., **Biswas, S.** & Sarkar, S.P. An efficient method for solving neutrosophic Fredholm integral equations of second kind. *Granul. Comput.* (2022). <https://doi.org/10.1007/s41066-021-00310-1>
8. **Biswas, S.,** Moi, S. & Sarkar, S.P. Neutrosophic Riemann integration and its properties. *Soft Comput* 25, 13987–13999 (2021). <https://doi.org/10.1007/s00500-021-06200-7>
9. Das, S., **Biswas, S.,** Banerjee, R. & Das, P. Role of fear factor in a two-prey one-predator model: comparison between crisp and fuzzy environment. *International Journal of General Systems* 50 (7), 815-847 (2021). <https://doi.org/10.1080/03081079.2021.1985486>
10. **Biswas, S.,** Moi, S. & Sarkar, S.P. Numerical solution of fuzzy Fredholm integro-differential equations by polynomial collocation method. *Comp. Appl. Math.* 40, 237 (2021). <https://doi.org/10.1007/s40314-021-01613-4>
11. Moi, S., **Biswas, S.** & Pal(Sarkar), S. Second-order neutrosophic boundary-value problem. *Complex Intell. Syst.* 7, 1079–1098 (2021). <https://doi.org/10.1007/s40747-020-00268-8>
12. **Biswas, S.** & Roy, T.K. A semianalytical method for fuzzy integro-differential equations under generalized Seikkala derivative. *Soft Comput* 23, 7959–7975 (2019). <https://doi.org/10.1007/s00500-018-3430-4>
13. **Biswas, S.** & Roy, T. K. Generalization of Seikkala Derivative and Differential Transform Method for Fuzzy Volterra Integro-differential Equations. *Journal of Intelligent & Fuzzy Systems* 34(4), 2795-2806 (2018). <https://doi.org/10.3233/JIFS-17958>
14. **Biswas, S.** & Roy, T. K. Adomian Decomposition Method for Solving Initial Value Problem for Fuzzy Integro-differential Equation with An Application in Volterra's Population Model. *The Journal of Fuzzy Mathematics* 26(1), 69-88 (2018).
15. **Biswas, S.** & Roy, T. K. Adomian decomposition method for fuzzy differential equations with linear differential operator. *Journal of Information and Computing Science* 11(4), 243-250 (2016).

### **C. Papers in Conferences: 02**

16. **Biswas, S. & Roy, T.K.** Application of intuitionistic differential transformation method to solve intuitionistic fuzzy Volterra integrodifferential equation. International Conference dated 08-10 Jan. 2018, on Intuitionistic Fuzzy Sets and Systems (ICIFSS - 2018), Organized by Vellalar College for Women (Autonomous), Erode, Tamil Nadu, India. Special issue on International Journal of Mathematical Archive 9(1), 141-149 (2018).
17. **Biswas, S., Banerjee, S. & Roy T.K.** Solving intuitionistic fuzzy differential equations with linear differential operator by Adomian decomposition method. 3 rd Int. IFS Conf., 29 Aug – 1 Sep 2016, Mersin, Turkey. Special issue on Notes on Intuitionistic Fuzzy Sets 22(4), 25–41 (2016).

### **Guest Lectures**

1. *Invited talk* on the “Basic Fuzzy Set Theory to Recent Work on Fuzzy Integro-Differential Equation” during the International Conference on Integrated knowledge Towards Enriched Society, January 22<sup>nd</sup> & 23<sup>rd</sup>, 2020 held at Loyola College, Chennai.

### **CONFERENCES/SEMINARS/WORKSHOPS ORGANISED/PARTICIPATED**

A. Conferences/Seminars/Workshops participated/ Attended:	10
B. Paper Presented In Seminar / Conferences:	04

### **HONOURS/AWARDS/DISTINCTIONS**

- Qualified *Graduate Aptitude Test in Engineering (GATE)* in Mathematics (MA).
- Qualified *National Eligibility Test (NET)* conducted by CSIR-UGC in the subject Mathematical Science.
- Qualified the Nineteenth West Bengal *State Eligibility Test (SET)* in the subject Mathematical Science.
- *Arun Chandra Mitra Memorial Medal* for securing highest marks among the candidates of the of the Master of Science examination, 2013 conducted under the Faculty of Basic and Applied Sciences, Bengal Engineering and Science University, Shibpur.
- *Prof. S. C. Dasgupta Gold Medal* for securing highest marks among the candidates of the Master of Science in Applied Mathematics examination, 2013 conducted under the Faculty of Basic and Applied Sciences, Bengal Engineering and Science University, Shibpur.

Updated on 25<sup>th</sup> July 2022