Curriculum Vitae

Dr. SHIBAJEE SINGHA DEO
State Aided College Teacher and H.O.D,
Department of Mathematics
Achhruram Memorial College, Jhalda
NAAC Grade –B (2008)
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PERSONAL PROFILE:

Sex:	Male
Marital status:	Married
Nationality:	Indian

ACADEMIC ACHIEVEMENTS:

Examination	Board/University	Institute	Year
PhD	Vinoba Bhabe University	Vinoba Bhabe University	2012
M.Sc (Applied Math)	Vinoba Bhabe University	Vinoba Bhabe University	2000
B.Sc (Math Hons.)	Burdwan University	Achhruram Memorial College,Jhalda	1996

RESEARCH INTEREST:
☐ Mathematical Modeling in Environmental Pollution.

RESEARCH EXPERIENCE:

Name of Institute/Office	Particulars in full	Area
Vinoba Bhabe University	PhD Thesis entitled ***A STUDY OF SOME MATHEMATICAL MODELS IN AIR POLLUTION OF BOKARO INDUSTRIAL AREA*** under the supervision of **Prof (Dr.) Arun Kumar in the Department of Mathematics, Vinoba Bhave University, Hazaribag and Co-Supervision of Dr. Bishnu Brata Chattopadhyay** in the Department of Mathematics, St. Pauls College, Ranchi, Jharkhand	Fluid Dynamics

CONFERENCES / Workshop ATTENDED:

1. XXII Annual conference of the Mathematical society, Banaras Hindu University
   (Held at Banaras Hindu University, on December 15-16, 2006)
   Presented a paper entitled **"Mathematical Modeling of Carbon-Monoxide dispersal in Bokaro steel limited (BSL)"**.

2. UGC Sponsored State level seminar on "Globalisation and Sustainability"
   (Held at Achhruram Memorial College, on 25-26 September 2007)
   Presented a paper entitled "**Analysis of relationship between green house gases and global warming**".

3. Golden jubilee conference of Bihar Mathematical Society
   (Held at B.R Ambedkar Bihar University, Muzaffarpur, Bihar on 29th & 30th March-2008)
   Presented a paper entitled **"Ground level concentration of sulper di-oxide pollution from s.t.p.s"**.

4. XXIV Annual conference of the Mathematical society, Banaras Hindu University
   (Held at Banaras Hindu University, on December 30-31, 2008)
   Presented a paper entitled **"A Mathematical modelling of sulpher-di-oxide pollution in Bokaro seel city area"**.

5. International conference on Recent trend in life science researches VIS-À-VIS natural resource management and human welfare
   (Held at Vinoba Bhabe University, Hazaribag, Jharkhand, India on 27th-29th June, 2009)
   Presented a paper entitled **"Mathematical modelling on concentration levels of gaseous pollutants in Bokaro steel city"**.

6. National conference: 27th annual conference of the Mathematical society, Banaras Hindu University
   (Held at Department of Applied Mathematics & Statistics, Babasaheb Bhimrao Ambedkar University, Vidya Vihar, Rai Bareli Road, Lucknow on November 26-27, 2011)
   Presented a paper entitled **"Mathematical modelling on concentration levels of pollution in lower part of Subarnarekha river"**.

7. UGC Sponsored National seminar on "Climate change and its impact on common people"
   (Held at Achhruram Memorial College, Jhalda, Purulia on 24th & 25th January, 2012)
   Presented a paper entitled **"Aspects of climate change to Air pollution and its impact on Indian Agriculture"**.

8. International conference on Dynamical Systems: Theory and applications (ICDS 2012)
   (Held during 11-14 January, 2012 at the Department of Mathematics, in Collaboration with centre for Mathematical Biology & Ecology, Jadavpur University, and Biomathematical Society of India)
   Presented a paper entitled **"Mathematical Modeling on concentration levels of pollution in Subarnarekha River"**

9. UGC Sponsored National seminar on Mathematical modelling and numerical simulation of physical phenomena
   (Held at Department of Mathematics and Physics, Achhruram Memorial College, Jhalda, Purlia on 1st and 2nd March, 2012)
   Presented a paper entitled **"Mathematical Modeling on concentration levels of pollution in lower part of Subarnarekha River"**.

10. Two day national workshop on Mathematical Sciences and Application : A Tribute to Mathematician Srinivasa Ramanujan (Held at Sidho Kanho Birsha University, Purulia Zilla Parishad, Purulia, on January 4-5, 2013)
    Participated in the National Workshop on Mathematical Sciences and Application.

11. One day State level seminar on Fundamental Aspects in Mathematics & Applications
    (Held at Nistarini College, Purulia, W.B, on December 2, 2014)
    Actively participated in the seminar.

12. National conference on recent trends in computations and Mathematical analysis in Engineering & Sciences-2015 (CRCMAS 2015)
    (Held at Government Polytechnic Silli, Silli, Ranchi, on November 20-21, 2015)
    Presented a paper entitled **"Dispersal of Arsenic into Damodar River : A Mathematical Model"**.
13. UGC Sponsored International Conference on Recent advances in Mathematics and Scientific computing
    (Held at Department of Mathematics, M.U., Bodh-Gaya, Bihar, on September 18-19, 2018)
    Presented a paper entitled **"A simple model for calculating concentration levels of pollution in River : a card study on Subarnarekha River"**.

Paper Published :

1. B.B Chattopadhyay, Smita Dey, Arun Kumar, **Shibajee Singha Deo** (2006): ANALYSIS OF HUMAN DISEASES DUE TO VEHICLES OVER RANCHI USING FUZZY RELATION.
   Journal of Bihar Mathematical Society, Vol-25 (2006), pp. 17-22.
2. B.B Chattopadhyay, Arun Kumar, Smita Dey, **Shibajee Singha Deo** (2008): GROUND LEVEL CONCENTRATION OF SULPER DI-OXIDE POLLUTION FROM S.T.P.S.
   Proceeding of the Conf. of BMS-2008, pp. 25-30.
3. **Shibajee Singha Deo,** B.B Chattopadhyay and Arun Kumar (2009): A MATHEMATICAL MODELING OF CARBON-MONOXIDE DISPERSAL FROM STEEL FACTORY.
   Acta Ciencia Indica, Vol. XXXV M, No. 4, 1239 (2009), pp. 1239-1244.
4. **Shibajee Singha Deo,** Arun Kumar and B.B Chattopadhyay (2009): MATHEMATICAL MODELING OF CARBON-MONOXIDE POLLUTION IN BOKARO STEEL CITY.
   Acta Ciencia Indica, Vol. XXXV M, No. 4, 1199 (2009), pp. 1199-1202.
5. Jwala Mahato, B.B Chattopadhyay, **Shibajee Singha Deo** (2012): Climate change probabilities and Risk analysis for Irrigation in India.
   Proceeding of the National Seminar (UGC), pp. 75-84 held at A.M College,Jhalda.
6. **Shibajee Singha Deo,** B.B Chattapadhyay (2012): Mathematical model of Atomospheric Pollution over a Coal City (A case study on Dhanbad, India).
   Proceeding of the National Seminar (UGC), pp. 124-132 held at A.M College,Jhalda.
7. Jwala Mahato, B.B Chattopadhyay, **Shibajee Singha Deo** (2013): Mathematical Model of Air Pollution due to Human Exposure.
   Napier Indian Advanced Research Journal of Science, pp. 229-238.
8. Jwala Mahato, B.B Chattopadhyay, **Shibajee Singha Deo** (2013): Mathematical Model on Concentration Levels of Pollution in Subarnarekha River.
   International Advanced Journal of Science, New Delhi, pp. 49-56.
9. Dr. B.B Chattopadhyay, Jwala Mahato, **Shibajee Singha Deo** (2014): MATHEMATICAL MODELING OF AIR POLLUTION DUE TO TRANSPORTATION, CASE STUDY ON RANCHI, INDIA.
   Acta Ciencia Indica, Vol. XL M, No. 2, 229 (2014).
10. Shafique Ahmad and **Shibajee Singha Deo** (2015): Dispersal of Arsenic into Damodar River: A Mathematical Model.
    International Science Congerss Association.
11. Shafique Ahmad and **Shibajee Singha Deo** (2016): Mathematical Model on the Effect of Temperature on Dissolved Oxygen and Biochemical Oxygen Demand
    IOSR Journal of Mathematics (IOSR-JM), Vol 12, Issue 1 Ver. II (Jan. – Feb. 2016). Pp. 24-27.
12. Dr. Shafique Ahmad and **Shibajee Singha Deo** (2016) : Mathematical model of Concentration of Biological Oxygen Demand with different zones in Damodar River.
    IOSR Journal of Mathematics (IOSR-JM), Vol 12, Issue 1 Ver. IV (Jan. – Feb. 2016). Pp. 55-59.
13. Bishnu Brata Chattopadhyay & **Shibajee Singha Deo** (2018): MATHEMATICAL MODELING OF CONCENTRATION OF CONTAMINANT LEVEL FOR WATER IN DAMODAR RIVER BERMO REGION
    GLOBAL JOURNEL OF ENGINEERING SCIENCE AND RESERCHES.
14. Bishnu Brata Chattopadhyay & **Shibajee Singha Deo** (2018): A Simple Model For Calculating Concentration Of SO_2 From Thermal Power Station, A Case Study On S.T.P.S.
    Jouranal Of Computer And Mathematical Sciences, Vol.9(8), pp.1087-1092.

Experience and Achievement:

1. Organised a national level webinar on "A MATHEMETICAL MODELING ON COVID-19 ON 9th June, 2020" as Convener.
2. Organised a national level Workshop on "A ONE DAY NATIONAL WORKSHOP ON C PROGRAMMING FOR MATHEMATICAL COMPUTING ON 5TH February, 2020", as Convener.
3. Organised a national level seminar on "A ONE DAY NATIONAL SEMINAR ON INTERDISCIPLINARY MATHEMATICS: AN EVALUATION ON 17th April, 2019", as Organising Secretary.
4. Organised a national level seminar on "UGC SPONSORED NATIONAL SEMINAR ON MATHEMATICAL MODELING AMD NUMERICAL SIMULATION OF PHYSICAL PHENOMENA ON 1ST AND 2ND March, 2012" as Joint Convener.