

CURRICULUM VITAE



Dr. Jyotiska Datta

Senior Assistant Professor
Department of Mathematics
Central University of Odisha
P.O.: NAD, Sunabeda, DIST. – Koraput, (Odisha)
PIN – 763004

PERSONAL DETAILS

FATHER'S NAME : NARAYANCHANDRA DATTA
MOTHER'S NAME : SWAPNA DATTA
GENDER : MALE
DOB : 20/11/1988
CASTE : OBC (NCL)
PWD STATUS : NO
MARITAL STATUS : MARRIED
NATIONALITY : INDIAN

EDUCATIONAL QUALIFICATIONS

EXAMINATION	BOARD/UNIVERSITY	YEAR OF PASSING	% OF MARKS	SUBJECT(S)
10 TH /MADHYAMIK	WEST BENGAL BOARD OF SECONDARY EDUCATION	2004	82.375	BENGALI, ENGLISH, MATH, PSC, LSC, HIS, GEO
10+2/ H.S.	WEST BENGAL COUNCIL OF HIGHER SECONDARY EDUCATION	2006	77.40	BENGALI, ENGLISH, MATH, PHY, CHEM, BIO
B.Sc. (HONOURS)	UNIVERSITY OF NORTH BENGAL	2009	68	MATHEMATICS (HONS.)
M.Sc.	INDIAN INSTITUTE OF TECHNOLOGY, KANPUR	2011	6.5 (CGPA)	MATHEMATICS
M.Phil.	INDIAN SCHOOL OF MINES, DHANBAD	2013	9.59 (CGPA)	MATHEMATICS
Ph.D.	INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD	2020	TITLE OF THE THESIS: ECO-EPIDEMIOLOGICAL SYSTEMS WITH DELAY AND DIFFUSION: A MODELING STUDY	

EMPLOYMENT DETAILS

Name of the School/College& Address	Nature of Post	From	To
Central University of Odisha, P.O. – NAD Sunabeda, Dist. – Koraput - 763004	Assistant Professor (Level – 10)	31.05.2013	12.06.2018
Central University of Odisha, P.O. – NAD Sunabeda, Dist. – Koraput - 763004	Senior Assistant Professor (Level – 11)	13.06.2018	Till date

ACHIEVEMENTS

- Qualified **National Teacher Eligibility Test (NET)** – **June 2011** in LS category conducted by CSIR, Delhi
- Qualified **National Teacher Eligibility Test (NET)** – **Dec 2012** in UGC JRF category conducted by CSIR, Delhi with AIR 50.
- Qualified GATE in 2011 (AIR 80), 2012 & 2013.

LIST OF PUBLICATIONS

1. Published a Research Article on **Bionomic Analysis of a Modified Leslie - Gower Model with Holling Type - IV Functional Response And Holling Type - II Predator Harvesting with Time Delay** in the Journal "Science and Culture" in the year 2023 with Atish Kumar Sethy and D. Ram Prasad.
2. Published a book chapter titled "**Dynamical Behaviour of Eco-Epidemiological Model using Holling Type-II Functional Response**" of a published book entitled "Research Trends in Mathematics and Statistics (Volume - 25)" having ISBN 978-93-5570-861-8 in the year 2023.

3. Published a Research Article on **"Bifurcation and bio-economic analysis of a prey-generalist predator model with Holling type IV functional response and nonlinear age-selective prey harvesting"** in the Journal "Chaos, Solitons & Fractals" in the year 2019 with Dr Debaldev Jana, Prof. Ranjit Kumar Upadhyay.
4. Published a Research Article on **"The Gestation Delay: A Factor Causing Complex Dynamics in Gause-Type Competition Models"** in the Journal "Complexity" in the year 2018 with Prof Zizhen Zhang, Ranjit Kumar Upadhyay, Rashmi Agrawal.
5. Published a Research Article on **"Emergence of Spatial Patterns in a Damaged Diffusive Eco-Epidemiological System"** in the Journal "International Journal of Bifurcation and Chaos" in the year 2018 with Prof. Ranjit Kumar Upadhyay, Dr Yueping Dong, Prof. Yasuhiro Takeuchi.
6. Published a Research Article on **"Bifurcation analysis of a modified Leslie–Gower model with Holling type-IV functional response and nonlinear prey harvesting"** in the Journal "Advances in Difference Equations" in 2018 with Prof. Zizhen Zhang, Prof. Ranjit Kumar Upadhyay.
7. Published a Research Article on **"Complex dynamics of ecological systems under nonlinear harvesting: Hopf bifurcation and Turing instability"** in the Journal "Nonlinear Dynamics" in 2015 with Prof. Ranjit Kumar Upadhyay, Dr Parimita Roy.

CONFERENCES (National/International)

1. Presented a paper titled **"Delay-induced Dynamics, Age Selective Harvesting, and Bio-economics Analysis in Population Model"** on 2 July 2024, at Konkuk University, Seoul in the Mini-symposia (MS061- MFBM) titled "Analyzing Ecological and Epidemiological models: Dynamical System Tools and Numerical Aspects" under KSMB - SMB 2024 at Seoul, South Korea.
2. Presented a paper titled **"Dynamical Behaviour of Harvesting Predators over Modified Lotka-Volterra Model using Holling Type IV Functional Response"** at the Two-Day National Conference on "Mathematics in 21st Century: Theory and Applications" organised by the Department of Mathematics during April 26 – 27, 2024 at Central University of Odisha.
3. Presented a paper titled **"Dynamics of Wetland Ecosystem at Chilika Lake in Odisha"** in One Day National Seminar on "Role of Statistics in Emerging India @ 2047: A Multidisciplinary Approach" organised by the Department of Statistics, CUO on 18 March 2024.
4. Presented a paper, **"Bio-economic & Bifurcation Analysis of a Prey-Predator System"**, in the Two-Day National Seminar held on March 21 -22, 2024, organised by the Department of Economics, Central University of Odisha.
5. Presented a topic on **"The Role of Vedic Mathematics in NEP 2020"** in the International Seminar organised by the Department of Education on 2nd and 3rd December 2023 at CUO.

RESEARCH GUIDANCE

1. NO OF POSTGRADUATE PROJECT/DISSERTATION GUIDANCE: 21
2. NO OF PH.D. SCHOLAR: 01 (CONTINUE)

ADMINISTRATIVE EXPERIENCE

1. Deputy Controller of Examinations (From June 2024 to October 2024 and March 2025 to till date)
2. Assistant Warden (From Mar 2024 to Oct 2024)
3. Member, Purchase Committee (From 2023 to 2024)
4. Member, Academic Council, Central University of Odisha (From 2013 to March 2024)
5. Head of the Department (I/c), Dept. of Math (Sept 2013 to Nov 2020 & Mar 2021 to Mar 2024)
6. Head of the Department (I/c-Additional Charge), Dept. of Comp. Sc. (From July 2019 to Feb 2024)
7. Chairman, Board of Studies, Dept. of Math (From 2015 to 2023)
8. Chairman, OBC Cell (From 2020 to Till Date)
9. Chairman, Guest House Management Committee (From Sept 2023 to Till Date)
10. Deputy Nodal Officer for Central University of Odisha, CUCET 2020
11. Deputy Centre Superintendent, CUCET Exam 2020
12. Deputy Chief Coordinator, Central University Entrance Examination 2024
13. Member, Board of Studies, Dept. of Statistics (From 2015 to 2023)
14. Member, Board of Studies, Dept. of Comp. Sc. (From 2020 to 2024)
15. Coordinator, Paramparik Kreed Mahotsav 2023
16. Convener, Website Management Committee (From 2020 to Till date)
17. In-charge, IT Section (From 2017 to 2020)
18. Member, Admission Committee (From 2013 to Till date)
19. Member, University Sports Committee (From 2019 to Till date)
20. Member, Library Committee (From 2013 to 2018 & From 2020 to 2021)

INTERNATIONAL VISITS

1. Visited **Konkuk University, Seoul, South Korea** to present a paper titled "**Delay-induced Dynamics, Age Selective Harvesting, and Bio-economics Analysis in Population Model**" from June 30 – July 05, 2024