

## CURRICULUM VITAE

### Biography

Dr. Enakshi Guru is currently working as an Assistant Professor in the Department of Physics at Sarojini Naidu College for Women, from March 2021. She has worked at Rishi Bankim Chandra College from Feb 2015 to Feb 2021, with additional 11 years of experience in two AICTE Approved Colleges, namely Camellia Institute of Technology and Institute of Technology and Marine Engineering College (Currently Known as Neotia Institute of Technology, Management and Science). She has done her full-time research in Jadavpur University as JRF/SRF with CSIR Fellowship (Council of Scientific & Industrial Research), and was awarded her PhD in 2006. She also holds M.Sc., B.Ed. and B.Sc. degrees from Jadavpur University.

- **NAME:- Dr. Enakshi Guru**
- **DESIGNATION :** Assistant Professor
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- **QUALIFICATION :** M.Sc. (Physics), B.Ed., Ph.D
- **OFFICIAL ADDRESS:** Department of Physics, Sarojini Naidu College for Women
- **AREAS OF INTEREST :** Computational Physics
- **TEACHING EXPERINCE :** 21 years
- **PAPER PUBLICATIONS:**
  1. "Effect of next nearest neighbour interactions on compensation temperature in trilayered spin systems" E. Guru and S. Saha, Phase Transitions 95, 642-650 (2022).
  2. "Influence of rate constant on TF regulated gene Expression and Effect of Noise".E.Guru, International Journal of Engineering, Science and Mathematics, Vol.7,Issue 4(3),62-69(2018).
  3. "Effect of Rate constants in TF regulated Gene Expression"E.Guru and S.Chatterjee, OALIB Journal,Vol.1. No.9,e1147,(2014).
  4. "Study of Synthetic Biomolecular Network in Escherichia Coli"E.Guru and S.Chatterjee,International Journal of Biophysics,vol3 (1), page 38-50,(2013)
  5. "Behaviour of Topological Charges in the Phase Transitions Exhibited by Two Planar Lattice Models"E.Mondal and S.K.Roy,Physics letter A,324,337-343(2004)

6. "Finite Size Scaling in the Planar Lebwohl -Lasher Model" E. Mondal and S.K Roy, Physics Letter A,312,397-410(2003)

- **PUBLISHED BOOK/ BOOK CHAPTER**

1. "Introduction to Molecular Theory in Uniaxial Nematic and Smectic A Liquid Crystal", E.Guru, Advances In Material Science, Vol II, ISBN: 978-93-91768-91-1, Page 1-6, 2022
2. "Biofuel from switchgrass: An Ecofriendly Transportation Fuel of Future" E.Guru, Environment & Unsustainable Human Life, Vol VI, VL Media Solutions, ISBN: 978-93-91308-49-0, Page 121-130, 2022
3. " Environmental Impact of Using Cellulosic Ethanol, E.Guru,Agricultural Science, Research andReview, Vol I, ISBN: 978-81-953600-2-4, Page 45-55, 2021
4. " Role of Biochemical Parameter in Synthetic Biomolecular Network of Escherichia coli,Newest Updates in Physical Science Research, Vol 13, B.P. International,ISBN 978-93-91595-33-3, Page 25-33, 2021

- **PAPER PRESENTATIONS in CONFERENCE AND ABSTRACT PROCEEDINGS:**

- 1."Study of Phase Transition of Modified Planar Lebwohl Lasher Model" E. Guru. presented in 3<sup>rd</sup> International Conference on Engineering Design and Computing (ICEDC) 2025 at Swami Vivekananda University, 4-6<sup>th</sup> February, **2025**.
- 2."Phase Transition in P<sub>2</sub>P<sub>4</sub> Liquid Crystalline Lattice Spin Model" presented in one day International Seminar on Recent Advancement in Material Science and Engineering, organized by Dept. of Physics and IQAC of Vivekanda Mahavidyalaya, Burdwan, 30<sup>th</sup> January, **2025**.
- 3." Monte Carlo Simulation on P<sub>2</sub>P<sub>4</sub> model", E.Guru, presented in one day Inter National Seminar entitled " Recent Advances in Science and NASA Technologies to Unlock the Mysteries of the Universe" organized by Rishi Bankim Chandra College, 5<sup>th</sup> March **2024**.
- 4." Persistence Probability Calculation in Discrete Lattice Spin Model : A Review" E.Guru, presented in International Faculty Development Programme (FDP) on " Research Methodology in Social Sciences : Concepts, Tools and Techniques" organized by IQAC , Sarojini Naidu College for Women, Kolkata in collaboration with 'Indian Academic Researchers' Association (IARA) .29<sup>th</sup> April -15<sup>th</sup> May, **2024**.
- 5." Role of Biochemical Parameter in Synthetic Biomolecular Network of Escherichia coli, Newest Updates in Physical Science Research, Vol 13, B.P. International, ISBN 978-93-91595-33-3, Page 25-33, **2021**.

6. “Environmental Impact of Using Cellulosic Ethanol, E.Guru, Agricultural Science, Research and Review, Vol I, ISBN: 978-81-953600-2-4, Page 45-55, 2021
7. “Influence of rate constant on TF regulated gene expression.” E.Guru, presented in “International Conference on Facets of Basic Sciences & applications(FBSA), Bijoy Krishna **2018**.
8. “Effect of topological charges in phase transitions of P4 model” E.Guru, presented in “Recent Trends in Condensed Matter Physics Including Laser Application, Burdwan University **2017**.
9. “Role of Biochemical parameter in Synthetic Biomolecular Network in Escherichia Coli” E.Guru, presented in “Recent Trends in Physics Research and Education”, Barracpore Rastraguru Surendranath College, **2017** .
10. “Role Deterministic rate constant in Stochastic gene expression” E.Guru; presented in “Canvas of Micro to Macro World of Physics”. Gobordanga Hindu College. **2016**.
11. “Critical exponents in the planar Lebwohl -Lasher model.” Enakshi Mondal and S.K.Roy; presented in International Conference on Statistical Physics, STATPHYS22, **2004**, Indian Institute of Science, Bangalore.
12. “Topological defects in planar P4 model.” Enakshi Mondal and Soumen Kumar Roy; presented in DAE-SSPS 2003, **2003**, Jwaji University, Gwalior.
13. “Monte Carlo study of the role of topological defects in the phase transitions exhibited by two planar lattice models.” E.Mondal and S. K. Roy; presented in Symposium on Condensed Matter Physics, CMDAYS 03, **2003**, Jadavpur University, Kolkata.

#### ADDITIONAL ACADEMIC PERFORMANCE:

- Achieved Best Paper Award in 3<sup>rd</sup> International Conference on Engineering Design and Computing (ICEDC) 2025 at Swami Vivekananda University, 4-6<sup>th</sup> February, **2025**.
- One day Popular Lecture on “Our Home: Light and Darkness” organized by Dept. of Physics and IQAC, Sarojini Naidu College for Women, Kolkata, 11<sup>th</sup> March, 2025.
- Attended International Faculty Development Programme (FDP) organized by on “Research Methodology in Social Sciences : Concepts, Tools and Techniques” organized by IQAC, Sarojini Naidu College for Women, Kolkata in collaboration with ‘Indian Academic Researchers’ Association (IARA) .29<sup>th</sup> April -15<sup>th</sup> May, 2024.

- Attended Short Term Course on Leadership Development Programme organized by University Grants Commission , Malaviya Mission Teacher Training Centre, Mizoram University held on 22<sup>nd</sup> -28<sup>th</sup> May, 2024.
- Attended NEP 2020 Orientation and Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission organized by MM-TTC, University of Calcutta from 21.05.2024 to 31.05.2024.
- Attended one day International seminar entitled “ Revealing the Cosmos: Unveiling the Mysteries at the Edge of the Universe” organized by Dept. of Physics, Rishi Bankim Chandra College, 9<sup>th</sup> January 2024.