



Kinsuk Giri



As on August 7, 2025

Current Position and Address

Assistant Professor, Dept. of CSE
National Institute of Technical Teachers'
Training & Research (NITTTR), Kolkata
Block - FC, Sector - III, Salt Lake City,
Kolkata - 700106, India.

Parental Address

Mouni, Vill + PO + PS : Mohanpur
Dist: Paschim Medinipur
West Bengal, PIN - 721436, India.

PERSONAL DETAILS

- Date of Birth : **7th October, 1984**
- Father's Name : Kalipada Giri, Mother's Name : Swapna Giri
- Gender : Male, Nationality : Indian, Mother Tongue : Bengali
- Religion : Hindu, Place of Birth : Mohanpur, WB, India
- Telephone : +9133 66251994
- Primary Email : **kinsuk@nitttrkol.ac.in**
- Alternative Email : **kinsuk84@gmail.com**
- Homepage : <http://www.nitttrkol.ac.in/kinsuk/home.html>
- Google Scholar : <http://scholar.google.co.in/citations?user=oWfT2skAAAAJ&hl=en>
- Research Gate : <https://www.researchgate.net/profile/Kinsuk-Giri>
- Orcid : <https://orcid.org/0000-0003-2671-3079>
- Linkedin : <https://www.linkedin.com/in/kinsukgiri/>

EDUCATIONAL QUALIFICATIONS

- **Doctor of Philosophy (Ph.D (Science)), Year of Passing : 2013**
Institution: *S. N. Bose National Centre for Basic Science, Kolkata, India*
University : *Jadavpur University, Kolkata, India*
Thesis Title : Numerical Simulation of Viscous Accretion Flow Around Black Holes Which Include Shocks
Name of Thesis Supervisor : *Prof. Sandip K. Chakrabarti*
- **Master of Science (M.Sc.), Year of Passing : 2007, Subject: Mathematics**
Institution/University : *Dept. of Mathematics, Visva-Bharati Central University, Santiniketan*
Marks Obtained : **978**, Maximum Marks : **1200**, Percentage : **81.50%**, Division/Class : **1st**

- **Bachelor of Science (B.Sc.), Year of Passing : 2005**
Subjects: **Mathematics** (Major), *Physics & Chemistry* (Minors)
Institution/University : *Dept. of Mathematics, Visva-Bharati Central University, Santiniketan*
Marks Obtained : **781**, Maximum Marks : **1000**, Percentage : **78.10%**, Division/Class : **1st**
- **Higher Secondary Degree (HS), Year of Passing : 2002**
School/Council : *Vidyasagar Vidyapith, Midnapore, WBCHSE*
Marks Obtained : **800**, Maximum Marks : **1000**, Percentage : **80.00%**, Division/Class : **1st**
- **Secondary Degree (Madhyamik), Year of Passing : 2000**
School/Board : *Baita M.N. High School, Baita, WBBSE*
Marks Obtained : **646**, Maximum Marks : **800**, Percentage : **80.75%**, Division/Class : **1st**

RESEARCH INTERESTS

- Machine Learning: Theories and Applications
- Computational Geometry
- Numerical Simulation and Parallel Computing
- Computational Astrophysics and Cosmology

COMPUTATIONAL SKILLS

Programming Languages

- PYTHON
- R
- FORTRAN
- C
- OpenMP and MPI
- GW BASIC and Q BASIC
- Visual Basic
- Turbo Pascal

Software Packages

- SCILAB
- MATLAB
- Various Cloud Based ICT Tools
- Anaconda, Eclipse & R-Studio
- Shell Scripting
- Gnuplot
- Latex & Mathematica
- Ftools & Heasoft
- Super Mongo & Golden Surfer
- MS Excel & MS Access
- XAMP, HTML & PHP

Professional EXPERIENCES

Doctoral Research Experiences (5.8 Years)

Organisation / Institute	Designation	DoJ	DoL	Duration (Years)
S. N. Bose National Centre for Basic Science	JRF	08/01/2008	07/01/2010	2
S. N. Bose National Centre for Basic Science	SRF	08/01/2010	31/12/2012	3.0
S. N. Bose National Centre for Basic Science	E-SRF	01/01/2013	08/11/2013	0.8

Post Doctoral Research Experiences (1.5 Years)

Organisation / Institute	Designation	DoJ	DoL	Duration (Years)
National Hsing Hua University	Post Doc	04/03/2014	31/08/2015	1.5

Teaching, Training and Research Experiences (9.9 Years)

Organisation / Institute	Designation	DoJ	DoL	Duration (Years)
CIPET Ahmedabad	Lecturer	11/11/2013	31/01/2014	0.2
NITTTR Kolkata	Asst. Professor	11/09/2015	Now	9.2

Courses Offered and Offering for M.Tech and Ph.D

1. **Mathematical Foundations for AIML** Theory Paper in M.Tech 1st Sem (Present)
2. **Cloud Computing and HPC** Theory Paper in M.Tech 2nd Sem (Present)
3. **Numerical Methods** Theory Paper in M.Tech 3rd Sem (Present)
4. **Discrete Mathematics** Theory Paper in Ph.D Course Work (Present)
5. **Mathematical Computing Lab** Lab Paper in M.Tech 1st Sem (Present)
6. **Machine Learning Lab** Lab Paper in M.Tech 2nd Sem (Present)
7. **Seminar and Mini Project** Seminar & Project Work in M.Tech 2nd Sem (Present)
8. **Advanced Engineering Mathematics** Theory Paper in M.Tech 1st Sem (Past)
9. **Fuzzy Set Theory** Theory Paper in M.Tech 2nd Sem (Past)
10. **Seminar - I** Seminar in M.Tech 1st Sem (Past)
11. **Seminar - II** Seminar in M.Tech 2nd Sem (Past)

Important Administrative/Management Experiences

1. **Nodal Officer of NITTTR Kolkata, Since Feb 2025 - Now**, NITTTR Kolkata (Present)
2. **Chief Information Security Officer (CISO) of NITTTR Kolkata, Since Feb 2025 - Now**, NITTTR Kolkata (Present)
3. **Coordinator, Ancient Indian STEM Cell of NITTTR Kolkata, Since Feb 2025**, NITTTR Kolkata (Present)
4. **Research Coordinator, Dept. of CSE, Since August, 2025 - Now**, NITTTR Kolkata, (Present)
5. **Ph.D. Coordinator, Dept. of CSE, Since April, 2025 - Now**, NITTTR Kolkata, (Present)
6. **Internship Coordinator, Dept. of CSE, Since April, 2025 - Now**, NITTTR Kolkata, (Present)
7. **member, Web Management Committee, Since July 2025**, NITTTR Kolkata (Present)
8. **Hostel Warden Sept 2021 - Jan 2025**, NITTTR Kolkata (Past)
9. **Sports Coordinator, Feb 2023 - March 2024**, NITTTR Kolkata (Past)
10. **Faculty in Charge (FIC), Time Table**, NITTTR Kolkata (Past)
11. **Faculty in Charge (FIC), Linux Lab**, NITTTR Kolkata (Past)
12. **Faculty in Charge (FIC), Student Affairs**, NITTTR Kolkata (Past)
13. **State Coordinator, Mizoram**, NITTTR Kolkata (Past)
14. **Co-Faculty in Classroom (Co-FIC), T & P**, NITTTR Kolkata (Past)
15. **Served and Serving Member Secretaries and Members** of Various Internal Committee of NITTTR Kolkata (Past & Present)

AICTE-NITTT Modules Completed: 8 Nos.

1. Orientation towards Technical Education & Curriculum Aspects
2. Professional Ethics & Sustainability
3. Communication Skills, Modes and Knowledge Dissemination
4. Instructional Planning and Delivery
5. Technology Enabled Learning and Life-long Self-learning
6. Student Assessment and Evaluation
7. Creative Problem Solving, Innovation and Meaningful R&D
8. Institutional Management & Administrative Procedures

ACADEMIC FELLOWSHIPS, AWARDS, GRANTS

1. *Best Paper Award* for titled with “Lung CT image segmentation with optimal parameters using UNET Architecture” in the IEEE international conference DABcon2024 during Nov 21-23, 2024. **November, 2024**
2. *Best Application Paper Award (Under Faculty Category)* for my presented paper titled “Identifying Outliers using Voronoi Circles” in 12th SocPros jointly organized by IIT Roorkee and Liverpool Hope University during August 11-13, 2023. The sponsors of the conferences were IIT Roorkee, Liverpool Hope University, Deloitte., Springer and DRDO, **August, 2023**
3. *Certificate of Gratitude from VOKAL for Contributing India’s Vernacular Knowledge Base on VOKAL* **Nov, 2019**
4. *DST-SERB International Conference Support Award* to attend 41st COSPAR Scientific Assembly held at Istanbul, Turkey, **August, 2016**

5. *Springer Outstanding Ph.D Thesis Award* from Springer International Publication House, **Sept, 2014**
6. *Post Doctoral Research Fellowship* from National Science Council (NSC) of Taiwan, Taiwan, **Dec, 2013**
7. *National Eligibility Test for Junior Research Fellowship (NET JRF)* from CSIR-UGC, India, **May, 2008**
8. *National Eligibility Test for Lectureship (NET LS)* from CSIR-UGC, India, **May, 2007 & Oct, 2007**
9. *JAM, 2005* Conducted by IITs, India, **May, 2005**
10. *SNBNCBS JRF & SRF* from S. N. Bose National Centre for Basic Science, Kolkata, **Jan, 2008 & Jan, 2010**
11. *SNBNCBS ESRF* from S. N. Bose National Centre for Basic Science, Kolkata, **Jan, 2013**
12. *HONOURABLE MENTION POSTER AWARD* from International Centre for Theoretical Physics (ICTP), Italy, **Nov, 2011**
13. *BEST POSTER AWARD (3 times)* from S. N. Bose National Centre for Basic Science, Kolkata, **2009, 2011 & 2013**
14. *Full Travel and Accommodation Grant* from International Centre for Theoretical Physics (ICTP), Italy, **Oct, 2011**
15. *Travel and Accommodation Grant* from South Asian Physics Foundation (SAPF), Asia, **Oct, 2010**
16. *Partial Travel and Accommodation Support* from International Union of Pure and Applied Physics (IUPAP), Sweden, **June, 2012**
17. *Full Financial Grant* from COSPAR, Europe, **July, 2012**
18. *Partial Financial Grant* from Kyoto University, Kyoto, Japan, **Oct, 2012**

PUBLICATIONS AND PREPRINTS

Papers Published/Accepted in SCI/Scopus Journals

1. “A Novel Approach for Modifying Agglomerative Clustering using Euclidean Geometry”, by Barun Kr. Paul and **Kinsuk Giri**, Journal of Engineering, Science & Education, Accepted, In Press
2. “Conductive Islands Assisted Resistive Switching in Biomimetic Artificial Synapse for Associative Learning and Image Recognition”, by Rajesh Jana, Ritamay Bhunia, Swapnamoy Paramanik, **Kinsuk Giri** and Avijit Chowdhury, Advanced Functional Materials, 2412804, 2024, **SCI Impact Factor 18.5**
3. “A Computational Study on the Modelling of the Flow Field Plates of a Polymer Electrolyte Membrane Fuel Cell” by Susmita Singh, Kinsuk Giri and Adrita Chaudhury Journal of Nano- Electron. Phys., Vol. 16, No 4, 04013, 2024, **Scopus Impact Factor 0.72**
4. “Remarkable Contributions by Jaina Mathematicians in Ancient India” by **Kinsuk Giri** and Debi Prasad Mishra, Journal of Engineering, Science & Education (JESE), Vol. 1, No 1, 32, 2024
5. “Modelling of Gas Diffusion Layer (GDL) of Polymer Electrolyte Membrane (PEM) Fuel Cell - A Computational Approach” by Susmita Singh, **Kinsuk Giri**, Adrita Chaudhury, Tanya Nishad, Debasmita Paul and Priya Poddar, Journal of Nano- Electron. Phys., Vol. 15, No 3, 3006, 2023, **Scopus Impact Factor 0.72**
6. “ECKM: An improved K-means clustering based on computational geometry” by Tuhin K. Biswas, **Kinsuk Giri** and Samir Roy, Expert Systems with Applications, Elsevier, 212, 118862, 2023, **SCI Impact Factor : 7.5**

7. “Computational Modelling of Surface Modified Carbon Nanotube for Low Temperature Fuel Cell” by Susmita Singh, **Kinsuk Giri**, Adrita Chaudhury and Somerup Ponda, Journal of Nano- Electron. Phys., Vol. 14, No 3, 03014, DOI: 10.21272/jnep.14(3).03014, 2022, **Scopus Impact Factor 0.72**
8. “Constraints on cubic and $f(P)$ gravity from the cosmic chronometers, BAO & CMB datasets: Use of machine learning algorithms” by **Kinsuk Giri** and Prabir Rudra, Nuclear Physics B, Elsevier, Volume 978, No 115746, 2022, **SCI Impact Factor : 2.5**
9. “ECR-DBSCAN: An Improved DBSCAN Based on Computational Geometry” by **Kinsuk Giri**, Tuhin K. Biswas and Pritisha Sarkar, Machine Learning with Applications, Elsevier, Volume 6, No 100148, 2021, **Companion Journal of ESWA of Impact Factor : 7.5**
10. “Observational Constraint in $f(R, T)$ gravity from the cosmic chronometers and some standard distance measurement parameters” by Prabir Rudra and **Kinsuk Giri**, Nuclear Physics B, Elsevier, Volume 967, No 115428, June, 2021, **SCI Impact Factor : 2.5**
11. “Simulation of Diurnal Variation of Sub-Ionospheric VLF Transmitter Signals Using Machine Learning Approach” by **Kinsuk Giri**, Sujay Pal, Tuhin K. Biswas and S.K. Midya in Romanian Journal of Physics, Volume 66, pp - 807, 2021, **SCI Impact Factor : 1.4**
12. “Dynamics of Magnetic Flux Tubes in an Advective Flow around a Black Hole”, by Arnab Deb, **Kinsuk Giri** & Sandip K. Chakrabarti, in Monthly Notices of the Royal Astronomical Society, Oxford University Press, Volume 472, Issue 2, p.1259-1271, 2017, **SCI Impact factor : 5.226**
13. “Numerical Simulation of Vertical Oscillations in an Axisymmetric Thick Accretion Flow around a Black Hole”, by Arnab Deb, **Kinsuk Giri** and Sandip K. Chakrabarti in Monthly Notices of the Royal Astronomical Society, Oxford University Press, Volume 462, Issue 4, Page 3502-3510, 2016, **SCI Impact factor : 5.226**
14. “Effects of Turbulent Viscosity on A Rotating Gas Ring Around A Black Hole: The Density Profile and Timescales in Numerical Simulation” by **Kinsuk Giri** and H. K Chang in Astronomische Nachrichten, Wiley, Volume 336, Issue 10, pp - 1005-1012, 2015, **SCI Impact Factor : 1.2**
15. “Segregation of a Keplerian disk and sub-Keplerian halo from a Transonic flow around a Black Hole by Viscosity and Cooling processes”, by **Kinsuk Giri**, Sudip K. Garain and Sandip K. Chakrabarti in Monthly Notices of the Royal Astronomical Society (MNRAS), Oxford University Press, Volume 448, Issue 4, pp 3221-3228, 2015, **SCI Impact Factor : 5.226**
16. “Hydrodynamic Simulation of Two Component Advective Flows around Black Holes”, by **Kinsuk Giri** and Sandip K. Chakrabarti in Monthly Notices of the Royal Astronomical Society (MNRAS), Oxford University Press & Wiley-Blackwell, Volume 430, Issue 4, pp 2836-2843, 2013, **SCI Impact Factor : 5.226**
17. “Hydrodynamic Simulations of Viscous Accretion Flows Around Black Hole”, by **Kinsuk Giri** and Sandip K. Chakrabarti. Accepted in Monthly Notices of the Royal Astronomical Society (MNRAS), Oxford University Press & Wiley-Blackwell, Volume 421, Issue 1, pp 666-678, 2012, **Impact Factor : 5.226**
18. “Effect of Compton Cooling on the Hydrodynamic and the Spectral Properties of a Two Component Accretion Flow around a Black Hole”, by Himadri Ghosh, Sudip Garain, **Kinsuk Giri** and Sandip K. Chakrabarti. Published in Monthly Notices of the Royal Astronomical Society (MNRAS), Oxford University Press & Wiley-Blackwell, Volume - 416, Issue - 2, pp 959-971, 2011, **SCI Impact Factor : 5.226**
19. “Hydrodynamic simulations of oscillating shock waves in a sub-Keplerian accretion flow around black holes”, by **Kinsuk Giri**, Sandip K. Chakrabarti, M.M. Samanta and D. Ryu. Published in Monthly Notices of the Royal Astronomical Society (MNRAS), Oxford University Press & Wiley-Blackwell, Volume-403, Issue 1, Pages 516-524, 2010, **SCI Impact Factor : 5.226**
20. “VLF signals in summer and winter in the Indian sub-continent using multi-station campaigns”, by S. K. Chakrabarti et al., Indian Journal of Phys. (IJP), Springer, Volume 86, Issue 5, pp 323-334, 2012, **SCI Impact Factor : 1.7**

Papers Published/Presented in Conferences

1. “*Lung CT image segmentation with optimal parameters using UNET Architecture*” by Barun Kr. Paul, Tuhin Kumar Biswas and **Kinsuk Giri** in the IEEE international conference DABcon2024, organized by Narula Institute of Technology, Kolkata, November 21-23, 2024
2. “*A Computational Study on the Modelling of The Flow Field Plates of a Polymer Electrolyte Membrane Fuel Cell*”, by Susmita Singh, **Kinsuk Giri** and Adrita Chowdhury, ICET, Malda, West Bengal, India, IRRET 2024, March, 2024
3. “*Identifying Outliers using Voronoi Circles*” by **Kinsuk Giri** in 12th SocPros jointly organized by IIT Roorkee and Liverpool Hope University, August 11-13, 2023
4. “*Modelling of Gas Diffusion Layer (GDL) of Polymer Electrolyte Membrane (PEM) Fuel Cell- A Computational Approach*” by Susmita Singh, **Kinsuk Giri**, Adrita Chaudhury, Tanya Nishad, Debasmita Paul and Priya Poddar, IRRET 2023, ICET, Malda, West Bengal, India, April 9 - 10, 2023
5. “*Determining Optimal Epsilon (eps) for DBSCAN using Empty Circles*” by **Kinsuk Giri** & Tuhin K. Biswas, ICRTAC-AIT-2020, Lecture Notes in Electrical Engineering, AISE, vol 836, Page 265-75, Springer, Singapore, 2022
6. “*Computational Modelling of Surface Modified Carbon Nanotube for Polymer Electrolyte Membrane Fuel Cell (PEMFC)*” by Susmita Singh, **Kinsuk Giri**, Adrita Chaudhury & Somerup Ponda, ICTFC-2022, Sakarya University of Applied Sciences, Sakarya, Turkey, Jan 6-8, 2022
7. “*A Computational Study on the Modelling of Surface Modified Carbon Nanotube for Low Temperature Fuel Cell*” by Adrita Chaudhury, Somerup Ponda, **Kinsuk Giri** and Susmita Singh. International Conference on Nanomaterials: Recent Developements and New Directions, Cape Comorin Conference, October, 2021
8. “*Determining Optimal Epsilon (eps) on DBSCAN using Empty Circles*”, by **Kinsuk Giri** & Tuhin K. Biswas, AISE 2020, NIT Goa, India, Springer, Jan 2021
9. “*A Novel Approach for Initializing Centroid at K-Means Clustering in Paradigm of Computational Geometry*”, by Tuhin K. Biswas and **Kinsuk Giri**, ICRTAC – AIT 2020, VIT Chennai, India, Springer, 2021
10. “*Remarkable Contributions by Jain Mathematicians in Ancient India*” by **Kinsuk Giri** & Debi Prasad Mishra, AISTEM 2021, NITTTR Kolkata
11. “*An Intelligent Technique to Find Bi-cliques and its Application to Optimum Matching Problem*”, by Pritisha Sarkar & **Kinsuk Giri**, ic-ETITE, IEEE, 2019, DOI : 10.1109/ic-ETITE47903.2020.61
12. “*Higher Order Stability Analysis for Astrophysical Accretion Processes*”, by **Kinsuk Giri** & Sayan Kundu, Proceedings in Mathematics & Statistics, Springer, 342, 73-79, March, 2021
13. “*Possible Images of Sgr A* in Two Component Advective Flow Paradigm*”, by **Kinsuk Giri**, Sandip K. Chakrabarti & Arka Chatterjee, 42nd COSPAR Scientific Assembly, 14-22 July, Pasadena, California, 2018
14. “*Segregation of Disc, Halo and Outflow from a Transonic Flow around a Black hole*”, by **Kinsuk Giri** & Sandip K. Chakrabarti, 42nd COSPAR Scientific Assembly, 14-22 July, Pasadena, California, 2018
15. “*Higher Order Stability Analysis for Astrophysical Accretion Processes*”, by **Kinsuk Giri** & Sayan Kundu, 42nd COSPAR Scientific Assembly, 14-22 July, Pasadena, California, 2018
16. “*Time dependant spectral properties of Two Component Advective Flow*”, by Arnab Deb, Sandip K. Chakrabarti & **Kinsuk Giri**, 42nd COSPAR Scientific Assembly, 14-22 July, Pasadena, California, 2018
17. “*Vertical Oscillation in thick accretion flow and its effect on outflows*”, by Arnab Deb, Sandip K. Chakrabarti & **Kinsuk Giri**, 42nd COSPAR Scientific Assembly, 14-22 July, Pasadena, California, 2018

18. *"Time dependant spectral properties of Two Component Advective Flow"*, by Arnab Deb, Sandip K. Chakrabarti & **Kinsuk Giri**, 42nd COSPAR Scientific Assembly, 14-22 July, Pasadena, California, 2018
19. *"How outflows are collimated and accelerated? - role of toroidal magnetic flux tubes"*, by Arnab Deb, Sandip K. Chakrabarti & **Kinsuk Giri**, 42nd COSPAR Scientific Assembly, 14-22 July, Pasadena, California, 2018
20. *"Magnetic flux tubes as collimators and accelerator of outflow"* by Arnab Deb, by **Kinsuk Giri** and Sandip K. Chakrabarti, Conference on Recent Trends in the study of Compact Objects - Theory and Observation (RETCO - III), 5-7th June, 2017 IIST, India, 2017
21. *"Effects of Vertical Oscillations on Outflows in a Thick Accretion Flow around a Black hole"* by **Kinsuk Giri**, Arnab Deb and Sandip K. Chakrabarti, International Conference on Wide Band Spectral and Timing Studies of Cosmic X-ray Sources, TIFR-Mumbai, India, 2017
22. *"Effects of Magnetic Flux Tubes on the Origin, Acceleration and Collimation of Outflows from an Advective Flow"* by Arnab Deb, **Kinsuk Giri** and Sandip K. Chakrabarti, International Conference on Wide Band Spectral and Timing Studies of Cosmic X-ray Sources, TIFR-Mumbai, India, 2017
23. *Time Evolution of a Rotating Gas Ring Around a Black Hole in Presence of Viscosity and Cooling"* by **Kinsuk Giri**, 41th COSPAR Scientific Assembly, Istanbul, Turkey, 2016
24. *"Dynamics of magnetic flux tubes in an advective flow around black a hole"* by Arnab Deb, **Kinsuk Giri** & Sandip K. Chakrabarti, 41st COSPAR Scientific Assembly, Istanbul, Turkey, 2016
25. *"Numerical simulations of a Two Component Advective Flow for the study of the spectral and timing properties of black holes"*, by **Kinsuk Giri** and Sandip K. Chakrabarti, Proceedings of the Thirteenth Marcel Grossmann Meeting, World Scientific Publishing Co. Pte. Ltd., 2015. ISBN - 9789814623995, pp. 2401-2403, 2015
26. *"Formation of Two Component Advective Flow by Numerical Simulations and Monte-Carlo simulations of their spectral properties"*, by S. K. Chakrabarti, S. Garain, **Kinsuk Giri**, H. Ghosh, 40th COSAPAR Scientific Assembly, Moscow, Russia, Abstract E1.5-5-14, 2014
27. *"Effects of Turbulent Viscosity on A Rotating Gas Ring Around A Black Hole: Results of Numerical Simulation"* in **Conference in Accretion and Outflows throughout the Scales**, Oct 1-3, 2014, Centre Blaise Pascal, ENS Lyon, France
28. *"Two Component Advective Flows Around Black Holes: Theory, simulations and observational verifications"*, by S. K. Chakrabarti et al., 40th COSAPAR Scientific Assembly, Moscow, Russia, Abstract E1.13-12-14, 2014
29. *"Role of Viscosity and Cooling in Hydrodynamic Simulation of. Two Component Accretion Flow (TCAF) around Black Holes"*, by **Kinsuk Giri** and Sandip K. Chakrabarti, Astronomical Society of India Conference Series (BASI), Vol. 8, pp 15-18, 2013
30. *"Monte-Carlo Simulations of Comptonization Process in a Two Component Accretion Flow around a Black Hole in Presence of an Outflow"*, by Himadri Ghosh, Sudip Garain, **Kinsuk Giri** and Sandip K. Chakrabarti, Proceedings of the Twelfth Marcel Grossmann Meeting on General Relativity, World Scientific Publication, Singapore, ISBN - 9789814374514, pp 985, 2012
31. *"Numerical simulations of a Two Component Advective flow for the study of the spectral and timing properties of BHs and NSs"* by **Kinsuk Giri** and Sandip K. Chakrabarti, 39th COSPAR Scientific Assembly, Mysore, India. Abstract PEX.1-7-12, p.622, 2012
32. *"Numerical simulations of a Two Component Advective Flow (TCAF) : Is The Flow Stable ?"* in **East Asia Numerical Astrophysics Meeting (EANAM5)**, Oct 28 - Nov 2, 2012, YITP, Kyoto University, Kyoto, Japan
33. *"How does a Two Component Advective Flow Form ?"* in **International Conference on Astrophysics & Cosmology**, March 19-21, 2012, Tribhuvan University, Kathmandu, Nepal

34. “Numerical Simulation of Standard Keplerian Disc around a Black Hole”, **ASROC Annual Meeting**, 23-25 May, 2014, NTU Experimental Forest, Nantou, Taiwan
35. “Time Dependent Accretion on to Stellar Compact Objects” in in **Bose Fest 2009** (organized by SNBNCBS) at 2nd April, 2009, EZCC, Kolkata
36. “Time Dependent Accretion on to White Dwarfs” **Symposium on Developments in Space Research in the Last 25 Years**, 16th November, 2008, Indian Centre for Space Physics, Kolkata, India

Book, Book Chapters & Articles

1. “Lung CT Image Segmentation with Optimal Parameters Using UNET Architecture” by Barun Kr. Paul, Tuhin K. Biswas and **Kinsuk Giri**, *IEEE Explore*, Page: 01-06, doi: 10.1109/DAB-Con63472.2024.10919399, 2025
2. “Numerical Simulation of Viscous Shocked Accretion Flows Around Black Holes” by **Kinsuk Giri**, Springer-Verlag, Berlin, 2014 ISBN: 978-3319095400 (Online), 978-3319095394 (print), DOI : 10.1007/978-3-319-09540-0
3. “Identifying Outliers Using Voronoi Circles” by Tuhin K. Biswas and **Kinsuk Giri**, *Lecture Notes in Networks and Systems, Proceedings of the 12th International Conference on Soft Computing for Problem Solving*, Springer, Volume 1, page 551-562, 2024
4. “Applications of Computational Geometry in Clustering: A Review” by Tuhin K. Biswas and **Kinsuk Giri**, *Advances in Modern and Applied Sciences, Scientific Research Pub-USA*, p-202, 2022
5. “Determining Optimal Epsilon (eps) for DBSCAN using Empty Circles” by **Kinsuk Giri** & Tuhin K. Biswas, ICRTAC-AIT-2020, *Lecture Notes in Electrical Engineering, AISE*, vol 836, Page 265-75, Springer, Singapore, 2022
6. “A Novel Approach for Initializing Centroid at K-Means Clustering in Paradigm of Computational Geometry” by Tuhin K. Biswas and **Kinsuk Giri**, *Artificial Intelligence and Technologies. Lecture Notes in Electrical Engineering*, vol. 806. Springer, Singapore, page 445-452, 2021
7. “Higher Order Stability Analysis for Astrophysical Accretion Processes”, by Sayan Kundu and **Kinsuk Giri**, *Springer Proceedings in Mathematics & Statistics* 342978 – 981 – 15 – 9708 – 4₆
8. “A Novel Approach for Initializing Centroid at K-Means Clustering in Paradigm of Computational Geometry” by Tuhin K. Biswas and **Kinsuk Giri**, Springer, Singapore, Print ISBN 978-981-16-6447-2, Vol 8, Page: 445-452, 2021
9. *An Intelligent Technique to Find Bicliques and its Application to Optimum Matching Problem*”, by Pritisha Sarkar and **Kinsuk Giri**, 978-1-7281-4142-8/\$31.0, IEEE
10. “The Story of the First Picture of a Black Hole”, by **Kinsuk Giri**, NITTTR Kolkata Newsletter, Vol 13, No 2, September, 2021
11. “Formation of Two Component Flows by Numerical Simulations Around Black Holes” by **Kinsuk Giri**, *Astrophysics and Space Science Proceedings*, Volume 53. ISBN 978-3-319-94606-1. Springer International Publishing AG, P-131, Springer Nature, 2018
12. “NUMERICAL SIMULATIONS OF A TWO COMPONENT ADVECTIVE FLOW FOR THE STUDY OF THE SPECTRAL AND TIMING PROPERTIES OF BLACK HOLES” by **Kinsuk Giri** and Sandip K. Chakraborti, https://doi.org/10.1142/9789814623995_0451, *MG13 Proceedings*, 2015
13. *Role of viscosity and cooling in hydrodynamic simulation of Two Component Accretion Flow (TCAF) around black holes*”, by **Kinsuk Giri** and Sandip K. Chakraborti, *ASI Conference Series*, 2013, Vol. 8, pp 15–18
14. “Time Dependent Accretion on to Stellar Compact Objects”, by **Kinsuk Giri** under the supervision of Prof. Sandip K. Chakraborti, during Ph.D course work of 2nd semester in S.N. Bose National Centre for Basic Sciences, Kolkata, 2008.

15. *"Infall time-scales of sub-Keplerian accretion flow around black holes: Hydrodynamic simulation", by Kinsuk Giri under the supervision of Prof. Sandip K. Chakrabarti, during Ph.D course work in S.N. Bose National Centre for Basic Sciences, Kolkata, 2009.*
16. *"Numerical Simulations of Standing and Oscillating Shocks around black holes" by Kinsuk Giri, A review article which is submitted to Jadavpur University in the purpose of Ph.D course work, October, 2010.*

CISD Training / BOPT Apprenticeship (NSQF) Job Roles DEVELOPED

1. **PYTHON Programming and R**, Designed, Developed and Offered for 3 Months CISD Training, August 2024 to October 2024, NITTTR Kolkata, India
2. **"Advanced Excel Specialist"**, Designed and Developed for Board of Practical Training Eastern Region (BOPT) Apprenticeship Training for NSQF in the sector of IT/ITes, 2024
3. **"Data Entry Operator"**, Designed and Developed for Board of Practical Training Eastern Region (BOPT) Apprenticeship Training for NSQF in the sector of IT/ITes, 2024

MOOC SWAYAM Program DEVELOPED and OFFERED

4. **"Academic and Research Report Writing"**, Start Date: 07/01/2019, End Date: 01/03/2019, No. of Enrolled Participants : 4468
5. **"Problem Based Learning"**, Start Date: 07/01/2019, End Date: 01/03/2019, No. of Enrolled Participants : 4093
6. **"Academic and Research Report Writing"**, Start Date: 27/01/2020, End Date: 30/03/2020, No. of Enrolled Participants : 6282
7. **"Problem Based Learning"**, Start Date: 24/02/2020, End Date: 17/04/2020, No. of Enrolled Participants : 855
8. **"Academic and Research Report Writing"**, Start Date: 20/07/2020 End Date: 12/10/2020, No. of Enrolled Participants : 8346
9. **"Academic and Research Report Writing"**, Start Date: 31/01/2021 End Date: 12/04/2021, No. of Enrolled Participants : 8146
10. **"Academic and Research Report Writing"**, Start Date: 30/07/2021 End Date: 31/10/2021, No. of Enrolled Participants : 10563
11. **"Problem Based Learning"**, Start Date: 31/01/2021 End Date: 12/04/2021, No. of Enrolled Participants : 432
12. **"Academic and Research Report Writing"**, Start Date: 29/01/2024 End Date: 30/04/2024, No. of Enrolled Participants : 6200

INVITED LECTURES DELIVERED

1. *"Introduction to Data Science", AICTE ATAL FDP on Data Science, July 28, 2025, BCREC, Durgapur, India*
2. *"Engineering Aspects of Error Analysis", Induction Program Programme for New Students at IEM, July 9, 2025, IEM, Kolkata, India*
3. *"PYTHON in Research", Five-Day Faculty Development Programme on Innovative Writing and Advance ICT Tools Usage For Research, June 23, 2025, IQAC, BCET, Balasore, India*
4. *"Introduction to Modern Academia and Foundation of Research", Five-Day Faculty Development Programme on Innovative Writing and Advance ICT Tools Usage For Research, June 23, 2025, IQAC, BCET, Balasore, India*

5. “Open Source Resources, SWAYAM, and MOOCs”, **IQAC One Day Seminar**, May 17, 2025, Malda College, Malda, India
6. “Open Educational Resources (OER), Technical Skills and Digital Library, Online Learning and Teaching”, **One-Day Faculty Training Program on MOOCs, SWAYAM, & OER**, April 12, 2025, Asutosh College, Kolkata, India
7. “Error Analysis in Research”, **IQAC One Day Seminar on Research Methodology**, April 26, 2025, Srikrishna College, Bagula, Nadia, India
8. “ICT Tools in Teaching and Learning”, **Faculty Induction Program on Effective Teaching Strategies and Classroom Management**, December 16, 2024, Sri Vasavi Engineering College, Tadepalligudem, India
9. “Uses of ICT Tools in Interactive Teaching and Learning”, **JNV - STEM Teachers Training Programme**, December 06, 2024, NIT Durgapur, India
10. “Research Methodologies and Methods”, **Training Program for Newly Recruited IES**, October 24, 2024, CSTARI, Kolkata, India
11. “Application of Computational Geometry in ML”, **Half Day Worskshop**, September 07, 2024, Indian Centre for Space Physics (ICSP), Kolkata, India
12. “Introduction to ML”, **Half Day Worskshop**, September 07, 2024, Indian Centre for Space Physics (ICSP), Kolkata, India
13. “PYTHON Programming”, **One Day Seminar**, March 02, 2024, Asutosh College, Kolkata, India
14. “Parallel Computing and HPC”, **Six Day FDP Program**, February 13, 2024, Mahadevananda Mahavidyalaya, Barrackpore, India
15. “Mathematical and Statistical Problem Solving using ML”, **Two Day’s Workshop on AI and ML**, March 29, 2023, Amity University, Kolkata, India
16. “Writing in Latex, Python programming and Machine learning”, **Ad-on Program**, March 23, 2023, Malda College, Malda, India
17. “ICT Tools in Teaching - Learning”, **Special FDP Program**, July 15, 2022, Durgapur Institute of Advanced Technology and Management, Durgapur, India
18. “Data Science with PYTHON”, **One Day Worskshop**, May 7, 2022, Omdayal Group of Institutions, Howrah, India
19. “Fundamentals of Data Science”, **5-Day International Workshop on Data Science & its Applications**, April, 28, 2022, Adamas University, Kolkata, India
20. “Research Methodologies and Methods”, **Training Program for Newly Recruited IES**, March 15, 2022, CSTARI, Kolkata, India
21. “Career Counseling”, **One Day College Level Webinar**, January 5, 2022, Bajkul Milani Mahavidyalaya, Kismat Bajkul, West Bengal, India
22. “Optimization for Machine Learning”, **AICTE ATAL FDP on Machine Learning with R**, October 29, 2021, AICTE-ATAL, NITTTR Kolkata, India
23. “Open Source Academic Software and Their Uses”, **STTP on Mathematical Software**, September 17, 2021, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, India
24. “Need of Optimization for Engineers”, **Special Webinar**, June 19, 2021, Shree Ramkrishna Institute of Science and Technology (SRIST), Kolkata, India
25. “Tools and Techniques Used for Thesis Writing”, **Five Day’s Workshop on Academic and Research Writing**, March 25, 2021, ATME College of Engineering, Mysuru, Karnataka, India
26. “Uses of Open Source Academic Software”, **Albertian Knowledge Summit (AKS 2021)**, March 21, 2021, St. Alberts College, Kochi, Kerala, India

27. "Online Teaching-Learning and Assessment during COVID-19 Pandemic: Strength, Weakness, Opportunity and Challenges to the Institution and System", **One-Day State Level Webinar**, February 26, 2021, Bajkul Milani Mahavidyalaya, Kismat Bajkul, West Bengal, India
28. "Understanding The Concepts of UG Level Mathematics through Graphical Demonstration using SCILAB", **One-Day E-workshop**, January 30, 2021, Krishna Chandra College, Birbhum, West Bengal, India
29. "Uses of Open Source Software in Scientific Computing", **Special Webinar Series**, October 10, 2020, B. P. Mandal College of Engineering, Madhepura, Bihar, India
30. "Unsupervised Learning with PYTHON Hands-on", **AICTE-ATAL FDP on Application of Artificial Intelligence and Machine Learning in Engineering Problems**, September 15, 2020, NERIST, Nirjuli, India
31. "Supervised Learning with PYTHON Hands-on", **AICTE-ATAL FDP on Application of Artificial Intelligence and Machine Learning in Engineering Problems**, September 14, 2020, NERIST, Nirjuli, India
32. "Graphical Demonstration as Teaching Aid in Connection with Graduate Level Mathematics", **A Special Webinar offered from Dept. of Mathematics**, August 8, 2020, Asutosh College, Kolkata, India
33. "Ancient Indian Mathematics", **9th National Seminar (web) on Ancient Indian Science and Technology**, July 13, 2020, NITTTR Kolkata & SPIU Uttar Pradesh, India
34. "Advantages of Problem Based Learning (PBL)", **Special Lecture at Dept. of Mathematics**, June 28, 2020, Adamas University, Kolkata, India
35. "Problem Based Learning", **Special Lecture on Science Day**, February 28, 2020, Vivekananda College Thakurpukur, Kolkata, India
36. "Accretion Processes around a Black hole", **Special Lecture Series of Adamas University, Kolkata**, September 18, 2019, Adamas University, Kolkata, India
37. "Advantages and Limitations of High Performance Computing (HPC)", **TEQIP-III Workshop on Mathematical Modeling and Scientific Computing**, August 26, 2019, National Institute of Technology (NIT), Manipur, Imphal, India
38. "SCILAB and Its Applications in Astrophysics and Mathematics", **TEQIP-III Workshop on Computational and Analytical Methods in Physics and Mathematics**, February 19, 2019, National Institute of Technology (NIT), Manipur, Imphal, India
39. "How Does an Accretion Flow Form around a Black Hole?", **TEQIP-III Sponsored Workshop on Computational and Analytical Methods in Physics and Mathematics**, February 20, 2019, National Institute of Technology (NIT), Manipur, Imphal, India
40. "Introduction to Scientific Computing with Open Source Software", **TEQIP-III Sponsored FDP on Opensource Software for Statistical and Mathematical Analysis**, February 9, 2019, Jorhat Institute of Science and Technology (JIST), Jorhat, Assam, India
41. "Functions, Programming Environment and Visualizations in SCILAB", **TEQIP-III Sponsored FDP on Opensource Software for Statistical and Mathematical Analysis**, February 10, 2019, Jorhat Institute of Science and Technology (JIST), Jorhat, Assam, India
42. "Introduction to SCILAB", **Open Source Software in Academia and Research (OSSAR, 2018)**, August 7, 2018, National Institute of Technology (NIT), Durgapur, West Bengal, India
43. "How Does Matter Behave Around a Black Hole?", **National Workshop Sponsored by SERB, DST, Govt. of India**, 1st August, 2017, Dept. of Mathematics, University of Burdwan, Burdwan, West Bengal, India
44. "Relations Vs Functions", **Ten Day Workshop (FDP)**, 23rd May, 2017, KV-1, Saltlake, Kolkata, India

45. *“Introduction to Scilab”, One Day Workshop (FDP), 3rd December, 2016, Technoindia University, Kolkata, India*
46. *“Method of Proofs and Recurrence Relations”, TEQIP-II Sponsored Faculty Development Program, 28th October, 2016, Tripura Institute of Technology (TIT), Agartala, India*
47. *“Counting Techniques and Combinatorics”, TEQIP-II Sponsored Faculty Development Program, 27th October, 2016, Tripura Institute of Technology (TIT), Agartala, India*
48. *“Introduction to Discrete Mathematics”, TEQIP-II Sponsored Faculty Development Program, 26th October, 2016, Tripura Institute of Technology (TIT), Agartala, India*
49. *“Time Evolution of Rotating Gas Ring Around a Black Hole in Presence of Viscosity and Cooling”, UGC Funded National Level Conference, 7th September, 2016, Krishnagar Women’s College, West Bengal, India*
50. *“How does a Two Component Advective Flow Form ?” in ASIAA Colloquium, 29th July, 2015, Academia Sinica, Taipei, Taiwan*
51. *“Numerical Simulation of Viscous Shocked Accretion Flows Around Black Holes” in IOA Colloquium, 10th March, 2014, National Tsing Hua University, Hsinchu, Taiwan*

LIST OF WORKSHOPS/SEMINARS/CONFERENCES ORGANIZED

1. Organized (as a member) Seminar **National Seminar on “Lightning Risk Prevention and Mitigation for a Resilient India” (LRPMR2025)**, February, 27, 2025, NITTTR Kolkata, India
2. *Coordinated Conference* **1st International Conference on Bharatiya Traditional Knowledge System (BTKS 2024)**, on July 26 - 27, 2024, NITTTR Kolkata, India
3. *Coordinated Seminar* **13th National Seminar (Virtual) on Ancient Indian Science and Technology (AIST 2024)**, November 09, 2023, NITTTR Kolkata, India
4. *Coordinated Seminar* **12th National Seminar (Virtual) on Ancient Indian Science and Technology (AIST 2023)**, September 30, 2023, NITTTR Kolkata, India
5. *Coordinated Workshop* **One Day Workshop for Celebrations for Rakshanbandhan (by Brahma Kumaris)**, August 31, 2023, NITTTR Kolkata, India
6. *Coordinated Seminar* **11th National Seminar on Ancient Indian Science, Technology, Engineering and Mathematics (AISTEM-2022)**, October 15, 2022, NITTTR Kolkata, India
7. *Coordinated Conference* **National Conference (Virtual) on Ancient Indian Science, Technology, Engineering and Mathematics (AISTEM-2021)**, March 19-20, 2021, NITTTR Kolkata, India
8. Organized (as a member) Seminar **Two Day National Seminar on Ancient Indian Education System**, November 11 - 12, 2020, NITTTR Kolkata & SPIU Uttar Pradesh, India
9. Organized (as a member) Seminar **Entrepreneurship Development for North Eastern States**, September 19, 2020, NITTTR Kolkata, India
10. *Coordinated Workshop* **Two Days Discussions on The Draft of National Education Policy 2019 STTP**, July-23-24, 2019, NITTTR, Kolkata, India
11. Organized (as a member) Seminar **10th National Seminar(web) on Atmanirbhar Bharat: Atmanirbhar Bharat: Environmental Sustainability**, August 16, 2020, NITTTR Kolkata & SPIU Uttar Pradesh, India
12. *Co-ordinated Regional Workshop* **on Quality and Sustainable TVET and International Seminar on Skills in TVET for Sustainability**, 24-28 October, 2017, NITTTR, Kolkata
13. *Co-ordinated Conference* **1st Regional Science & Technology Congress, Presidency Division**, 13-14 November, 2016, NITTTR, Kolkata

LIST OF STTPs/FDPs Conducted

1. *Coordinated STTP PYTHON Programming*, July 07-11,2025, NITTTR Kolkata, India
2. *Coordinated STTP Word Processing with LaTeX*, June 16 - 20,2025, NITTTR Kolkata, India
3. *Coordinated STTP ICT Tools for Teaching Learning and Assessment*, April 16-18,2025, NITTTR Kolkata, India
4. *Coordinated STTP R Programming*, March 24-28,2025, NITTTR Kolkata Extension Centre, Guwahati, India
5. *Coordinated STTP Machine Learning with PYTHON*, March 17 - 21, 2025, NITTTR Kolkata, India
6. *Coordinated STTP Introduction to Indian Knowledge System (IKS)*, March 03-07, 2025, NITTTR Kolkata, India
7. *Coordinated STTP PYTHON Programming*, Feb 17-21, 2025, NITTTR Kolkata, India
8. *Coordinated E-STTP Problem Based Learning*, Feb 24 - 28, 2025 NITTTR Kolkata, India
9. *Coordinated E-STTP Problem Based Learning*, Feb 03 - 07, 2025 NITTTR Kolkata, India
10. *Coordinated STTP Mathematical Foundation of Computer Science*, Jan 06 - 17, 2025, NITTTR Kolkata, India
11. *Coordinated STTP R Programming*, December 30, 2024 - January 03, 2025, NITTTR Kolkata Extension Centre,Bhubaneswar, India
12. *Coordinated E-STTP Problem Based Learning*, December 09 - 20, 2024, NITTTR Kolkata, India
13. *Coordinated STTP Problem Solving with R*, November 11 - 15, 2024, NITTTR Kolkata, India
14. *Coordinated STTP ICT Tools for Assessment*, April 10 - 12, 2024, NITTTR Kolkata, India
15. *Coordinated STTP Academic Writing and Tools*, September 23 - October 04, 2024, NITTTR Kolkata, India
16. *Coordinated STTP Problem Solving with PYTHON*, September 09 - 13, 2024, NITTTR Kolkata, India
17. *Coordinated STTP Word Processing with LaTeX*, August 12 - 16, 2024, NITTTR Kolkata, India
18. *Coordinated STTP Discrete Mathematics for Engineering* , July 01 - 05, 2024, NITTTR Kolkata, India
19. *Coordinated STTP SCILAB Programming*, June 10 - 14, 2024, NITTTR Kolkata, India
20. *Coordinated STTP ICT Tools for Assessment*, April 10 - 12, 2024, NITTTR Kolkata, India
21. *Coordinated STTP Machine Learning with Python*, March 18 - 22, 2024, NITTTR Kolkata, India
22. *Coordinated STTP Cloud Computing and HPC*, February 05 - 09, 2024, NITTTR Kolkata, India
23. *Coordinated STTP Mathematical Foundation of Computer Science*, January 08 - 12, 2024, NITTTR Kolkata, India
24. *Coordinated STTP Academic Writing and Tools*, December 04 - 15, 2023, NITTTR Kolkata, India
25. *Coordinated STTP R Programming*, December 06 - 12, 2023, IMIT Cuttack, India
26. *Coordinated STTP Problem Solving with PYTHON*, November 06 - 11, 2023, NITTTR Kolkata, India
27. *Coordinated STTP R Programming*, October 09 - 13, 2023, NITTTR Kolkata, India

28. *Coordinated STTP Word Processing with Latex*, August 21 - 25, 2023, SIET Dhenkanal, India
29. *Coordinated STTP SCILAB Programming*, May 08 - 12, 2023, NITTTR Kolkata, India
30. *Coordinated STTP ICT Tools for Assessment*, April 19 - 21, 2023, NITTTR Kolkata, India
31. *Coordinated STTP ICT Tools for Effective Teaching and Learning*, March 27 - 31, 2023, NITTTR Kolkata, India
32. *Coordinated STTP Problem-Based Learning-Towards Advanced Pedagogy*, March 20 - 24, 2023, NITTTR Kolkata, India
33. *Coordinated STTP Introduction to SCILAB*, February 27 - March 03, 2023, NITTTR Kolkata, India
34. *Coordinated STTP Machine Learning with PYTHON*, February 13 - 17, 2023, NITTTR Kolkata, India
35. *Coordinated STTP Mathematical Foundation of Computer Science*, January 12 - 20, 2023, NITTTR Kolkata, India
36. *Coordinated STTP Academic Writing and Tools*, December 12 - 23, 2022, NITTTR Kolkata, India
37. *Coordinated STTP Introduction to Advanced Pedagogy*, November 14 - 25, 2022, NITTTR Kolkata, India
38. *Coordinated STTP Word Processing with Latex*, October 31 - November 04, 2022, NITTTR Kolkata, India
39. *Coordinated STTP Data Analytics with PYTHON*, October 10-14, 2022, NITTTR Kolkata, India
40. *Coordinated STTP Word Processing with Latex*, September 19-23, 2022, NITTTR Kolkata, India
41. *Coordinated STTP PYTHON Programming*, August 08-19, 2022, NITTTR Kolkata, India
42. *Coordinated ICT STTP Digital Tools for Faculty and Staff*, July 11-15, 2022, NITTTR Kolkata, India
43. *Acted as Resource Person at STTP Induction Training*, June 20 - July 1, 2022, NITTTR Kolkata, India
44. *Acted as Resource Person at ICT STTP Advanced Pedagogy*, June 13 - 24, 2022, NITTTR Kolkata, India
45. *Coordinated STTP Academic Research Writing and LaTeX*, June 13-24, 2022, NITTTR Kolkata, India
46. *Coordinated STTP Digital Pedagogy and Tools for Teaching and Learning*, May 23-27, 2022, NITTTR Kolkata, India
47. *Acted as Resource Person at ICT STTP HRD through Training and Development*, March 21-25, 2022, NITTTR Kolkata, India
48. *Coordinated STTP HPC and Cloud Computing*, March 14-18, 2022, NITTTR Kolkata, India
49. *Coordinated ICT STTP Machine Learning with PYTHON*, February 21 - 25, 2022, NITTTR Kolkata, India
50. *Acted as Resource Person at ICT STTP Artificial Intelligence*, February 14 - 18, 2022, NITTTR Kolkata, India
51. *Coordinated STTP Introduction to PYTHON Programming*, February 7 - 11, 2022, NITTTR Kolkata, India
52. *Coordinated ICT STTP Mathematical Foundation of Computer Science*, January 10 - 21, 2022, NITTTR Kolkata, India

53. *Acted as Resource Person at ICT STTP Online Pedagogy*, January 3 - 7, 2022, NITTTR Kolkata, India
54. *Acted as Resource Person at ICT STTP Data Structures & Algorithms*, Dec 27-31, 2021, NITTTR Kolkata, India
55. *Acted as Resource Person at Special ICT STTP Research Methodology*, Dec 21-31, 2021, NITTTR Kolkata, India
56. *Coordinated STTP Word Processing with LaTeX*, December 13-17, 2021, NITTTR Kolkata, India
57. *Acted as Resource Person at ICT STTP Managerial Skills for Technical Teacher*, Dec 6-10, 2021, NITTTR Kolkata, India
58. *Acted as Resource Person at ICT STTP ICT Tools for Teaching and Learning*, Dec 6-10, 2021, NITTTR Kolkata, India
59. *Acted as Resource Person at ICT STTP Induction Training*, Nov 29 - Dec 2, 2021, NITTTR Kolkata, India
60. *Coordinated STTP Discrete Mathematics*, November 15-19, 2021, NITTTR Kolkata, India
61. *Acted as Resource Person at ICT STTP Soft Computing*, October, 2021, NITTTR Kolkata, India
62. *Coordinated STTP Problem Solving with SCILAB*, October 4-8, 2021, NITTTR Kolkata, India
63. *Coordinated STTP Hybrid Pedagogy*, September 27 - October 1, 2021, NITTTR Kolkata, India
64. *Acted as Resource Person at ICT STTP Induction Training*, August-Sept, 2021, NITTTR Kolkata, India
65. *Coordinated STTP Problem Solving with PYTHON*, August 09 - 13, 2021, NITTTR Kolkata, India
66. *Acted as Resource Person at ICT STTP Managerial Skills for Technical Teachers*, July 19 - 23, 2021, NITTTR Kolkata, India
67. *Coordinated STTP Problem Based Learning*, July 12 - 16, 2021, NITTTR Kolkata, India
68. *Acted as Resource Person at ICT STTP Online Pedagogy*, June 28 - July, 2, 2021, NITTTR Kolkata, India
69. *Coordinated STTP Numerical and Statistical Methods with SCILAB*, June 21 - 25, 2021, NITTTR Kolkata, India
70. *Coordinated Special Webinar Yoga Therapy and Post COVID Management*, June 19, 2021, NITTTR Kolkata, India
71. *Acted as Resource Person at ICT STTP Fuzzy and Rough Set Theory*, June 14 - 18, 2021, NITTTR Kolkata, India
72. *Acted as Resource Person at ICT STTP ICT Tools for Teaching and Learning 1*, May 24 - 28, 2021, NITTTR, Kolkata, India
73. *Coordinated STTP Machine Learning with PYTHON*, May 17 - 21, 2021, NITTTR, Kolkata, India
74. *Acted as Resource Person at ICT STTP Induction Training*, May 3 - 8, 2021, NITTTR, Kolkata, India
75. *Acted as Resource Person at 5th AICTE-NITTTR Mentor Orientation Training Programme - 5*, April 19 - 23, 2021, NITTTR Kolkata, India
76. *Acted as Resource Person at 4th AICTE-NITTTR Mentor Orientation Training Programme*, April 5 - 9, 2021, NITTTR Kolkata, India
77. *Acted as Resource Person at 3rd AICTE-NITTTR Mentor Orientation Training Programme*, March 15-19, 2021, NITTTR Kolkata, India

78. *Coordinated STTP Mathematical Foundation of Computer Science*, Feb 22 - March 5, 2021, NITTTR, Kolkata, India
79. *Acted as Resource Person at ICT STTP Teaching Methodologies*, February 8 - 12, 2021, NITTTR, Kolkata, India
80. *Acted as Resource Person at 2nd AICTE–NITT Mentor Orientation Training Programme*, Feb 5-9, 2021, NITTTR Kolkata, India
81. *Coordinated MOTP Prg Orientation Training Programme [OTP] for Mentors of Higher Educational Institutions [HEIs]*, Jan 27 - Feb 4, 2021, NITTTR Kolkata, India
82. *Coordinated STTP Discrete Mathematics*, January 11 - 15, 2021, NITTTR, Kolkata, India
83. *Acted as Resource Person at ICT STTP Outcome Based Education in the context of Online Teaching*, Dec, 2020, MIT AoE, Pune, India
84. *Coordinated STTP Problem Based Learning*, December 7 - 11, 2020, NITTTR, Kolkata, India
85. *Acted as Resource Person at 1st AICTE–NITT Mentor Orientation Training Programme*, Nov 30 - Dec 4, 2020, NITTTR Kolkata, India
86. *Coordinated STTP Introduction to PYTHON Programming*, November 16 - 20, 2020, NITTTR, Kolkata, India
87. *Coordinated ICT STTP Hybrid Pedagogy*, November 1 - 5, 2020, NITTTR, Kolkata, India
88. *Acted as Resource Person at ICT STTP Induction Training*, October 12 - 16, 2020, NITTTR, Kolkata, India
89. *Acted as Resource Person at ICT STTP Induction to ICT Tools for Teaching and Learning*, October 5 - 16, 2020, NITTTR, Kolkata, India
90. *Coordinated STTP Numerical and Statistical Methods with SCILAB*, Sept 28 - Oct 2, 2020, NITTTR, Kolkata, India
91. *Coordinated STTP Engineering Optimization*, Aug 31 - Sept 4, 2020, NITTTR, Kolkata, India
92. *Acted as Resource Person at ICT STTP Induction Training Phase II*, Aug 3 - 7, 2020, NITTTR, Kolkata, India
93. *Coordinated STTP Problem Solving with SCILAB*, July 27 - 31, 2020, NITTTR, Kolkata, India
94. *Coordinated STTP Big Data Analytics*, July 6 - 10, 2020, NITTTR, Kolkata, India
95. *Coordinated STTP Introduction to PYTHON Programming*, June 22 - 26, 2020, NITTTR, Kolkata, India
96. *Coordinated STTP Problem Based Learning*, May 25 -29, 2020, NITTTR, Kolkata, India
97. *Coordinated STTP Numerical and Statistical Methods with PYTHON (Phase - II)*, May 4 -8, 2020, NITTTR, Kolkata, India
98. *Coordinated STTP Numerical and Statistical Methods with PYTHON (Phase - I)*, April 27 - May 1, 2020, NITTTR, Kolkata, India
99. *Acted as Resource Person at Vocational STTP Business Economics*, Feb 24 - 28, 2020, NITTTR Kolkata, India
100. *Coordinated STTP Discrete Mathematics and It's Applications*, 13-17, January, 2020, NITTTR, Kolkata, India
101. *Coordinated STTP Mathematical Foundation of Computer Science*, Dec 23, 2020 - Jan 3,2021, NITTTR, Kolkata, India
102. *Coordinated STTP Research Methodology in Engineering and Technical Writing using LaTeX*, 09-20, December, 2019, NITTTR, Kolkata, India
103. *Coordinated Computer Application and Networking*, Dec 09-13, 2019, NITTTR, Kolkata, India

104. *Coordinated STTP Problem Based Learning*, Dec 02-06, 2019, NITTTR ICT, Kolkata, India
105. *Coordinated STTP Computer Application and Networking*, Nov 25-29, 2019, NITTTR, Kolkata, India
106. *Coordinated STTP Introduction to PYTHON Programming*, 18-22, November, 2019, NITTTR, Kolkata, India
107. *Coordinated STTP Computer Application and Networking*, Nov 11-15, 2019, NITTTR, Kolkata, India
108. *Coordinated STTP Numerical Methods : Theories and Applications*, 04-08, November, 2019, NITTTR Kolkata Bhubaneswar Extn., India
109. *Acted as Resource Person at STTP Topics in Data Structures and Algorithms*, October 14 - 25, 2019, NITTTR Kolkata, India
110. *Coordinated STTP Computer Application and Networking*, Sept. 09-14, 2019, NITTTR, Kolkata, India
111. *Coordinated STTP Recent Trends in Optimization: Theory and Applications*, 02-06, September, 2019, NITTTR, Kolkata, India
112. *Acted as Resource Person at STTP Basics of Computer, IT and ITes*, July 15 - 26, 2019, NITTTR Kolkata, India
113. *Coordinated STTP Problem Solving with SCILAB*, June 24- July 5, 2019, NITTTR, Kolkata, India
114. *Coordinated STTP Office Automation and Management*, June 17-21, 2019, NITTTR, Kolkata, India
115. *Coordinated STTP Problem Based Learning*, May 20-31, 2019, NITTTR ICT, Kolkata, India
116. *Coordinated STTP Numerical Methods : Theories and Applications*, April 29 - May 3, 2019, NITTTR, Kolkata, India
117. *Event Coordinator of National Innovation Talent Contest for Polytechnic (NITCP-II)*, 23-24 February, 2019, NITTTR, Kolkata
118. *Coordinated STTP Discrete Mathematics*, 11-15 February, 2019, NITTTR, Kolkata, India
119. *Coordinated STTP Introduction to LaTeX*, 25-30 October, 2018, Dibrugarh University, Dibrugarh, Assam, India
120. *Coordinated STTP Mathematics & Computation*, 31 Dec- 11, Jan, 2019, NITTTR, Kolkata, India
121. *Coordinated STTP Problem Solving with SCILAB*, 01-12 October, 2018, NITTTR, Kolkata, India
122. *Coordinated STTP Office Management Tools*, 13-17 August, 2018, Govt. Polytechnic, Ranchi, Jharkhand, India
123. *Coordinated STTP Problem Based Learning*, 04-15 June, 2018, NITTTR, Kolkata, India
124. *Coordinated STTP Topics in Discrete Mathematics*, 27-31 August, 2018, NITTTR, Bhubaneswar, India
125. *Coordinated STTP Research Methodology in Engg. and Technical Writing using LaTeX*, 18-30 Dec, 2017, NITTTR, Kolkata, India
126. *Coordinated STTP Numerical and Statistical Methods for Technical Teachers with SCILAB*, 11-15 Sept., 2017, NITTTR, Kolkata, India
127. *Coordinated STTP Exposure on SCILAB*, 19-30 June, 2017, NITTTR, Kolkata, India
128. *Coordinated STTP Discrete Mathematics and It's Applications*, 16-20 January, 2017, NITTTR, Kolkata, India

129. *Co-Coordinated National Innovation Talent Contest for Polytechnic (NITCP - I)*, 21-22 February, 2017, NITTTR, Kolkata
130. *Coordinated STTP SCILAB and Gnuplot for Engineers and Researchers*, 12-16 December, 2016, NITTTR, Kolkata, India
131. *Coordinated STTP Mathematical and Technical Writting in Latex*, 26-30 December, 2017, NITTTR, Kolkata, India
132. *Coordinated STTP Recent Advances in Optimization: Theory and Applications*, 27 June-1 July, 2016, NITTTR, Kolkata, India
133. *Coordinated STTP Numerical and Computational Techniquesfor Engineers and Researcher*, 13-17 June, 2017, NITTTR, Kolkata, India

LIST OF FDPs/WORKSHOPS/CONFERENCES/SEMINARs PARTICIPATED/ATTENDED

1. Participated **12th International Conference on Soft Computing for Problem Solving (SoCProS 2023)**, August 11 - 13, IIT Roorkee, India
2. Participated **One week FDP on Data Science using R**, July 17 - 21, 2023, NITTTR Chandigarh, India
3. Participated **One week FDP on Data Science in Engineering**, June 05 - 09, 2023, NITTTR Kolkata, India
4. Participated **One week FDP on Advanced Pedagogy**, May 22 - June 02, 2023, NITTTR Kolkata, India
5. Participated **One week FDP on Open Source Tools for Research**, May 15 - 19, 2023, NITTTR Chandigarh, India
6. Participated **One week FDP on Cyber Crime and Forensic Tools**, May 08 - 12, 2023, NITTTR Chandigarh, India
7. Participated **One Week Short Term Course on Recent Industrial trends in Control and Optimization (RICO-2023)**, May 01 - 05, 2023, NIT Jalandhar, India
8. Participated **One week FDP on Applications of Technology in Environmental Sustainability**, April 17 - 21, 2023, NITTTR Chandigarh, India
9. Participated **10th National Seminar on Ancient Indian Science and Technology**, August 21, 2021, NITTTR Kolkata, India
10. Participated **7th Regional Workshop on Technical Education for N.E. States**, August 16, 2021, NITTTR Kolkata, India
11. Participated **National Workshop (web) on Prospective of Entrepreneurship for North Eastern States**, June 19, 2021, NITTTR Kolkata, India
12. Participated **Online Regional Program on Developing Context Based Vocational Pedagogy**, April 26 - 30, 2021, CPSC, Manila, Philippines
13. Participated **International Conference on Artificial Intelligence and Sustainable Engineering (AISE 2020)**, January 18 - 20, 2021, NIT Goa, India
14. Participated **International Conference (web) on Recent Trend in Advanced Computing (ICRTAC AIT 2020)**, December 17 - 18, 2020, VIT Chennai, India
15. Attended **National Seminar(web) on Advances in Machining**, September, 2020, NITTTR Kolkata, India
16. *Participated Capacity Building Programme Capacity Building Programme Creative Problem Solving, Innovation and Meaningful R & D* 10 – 14 August, 2020 Organized by NITTTR, Chandigarh, India

17. *Participated 3rd National Seminar(web) on Ancient Indian Science and Technology*, July 13, 2020, NITTTR Kolkata & SPIU Uttar Pradesh, India
18. *Participated Inter Capacity Building Training Programme - Module 5: Technology Enabled Learning and Lifelong Self-Learning*, June 8 -12, 2020, by NITTTR Chennai, India
19. *Participated Capacity Building Training: Instructional Planning and Delivery*, Feb 17-21, 2020, Conducted by NITTTR Bhopal, India
20. *Participated IWAML-2019*, 04-08 February, 2019, NITTTR, Kolkata, India
21. *Participated RETCO-III*, 05-07 June, 2017, IIST, Thiruvananthapuram, India
22. *Participated TIARA Summer School on Numerical Astrophysics*, 13-17 July, 2015, TIARA, Academia Sinica, Taiwan
23. *Participated ASROC Annual Meeting*, 22-24 May, 2015, Yilan University, Taiwan
24. *Participated 5th Fermi Asian Network (FAN) Workshop*, July 28 - Aug 1, 2014, NCTA, Yilan, Taiwan
25. *Participated ASROC Annual Meeting*, 23-25 May, 2014, NTU Experimental Forest, Nantou, Taiwan
26. *Participated Accretion Onto Black Holes : A topical Conference*, 5-7 Sept., 2013, International Centre Goa, Dona Paula, Goa, India
27. *Participated National Conference on Recent Trends in the Study of Compact Objects: Theory and Observation*, 11 – 13 March 2013, IITG, Guwahati, India
28. *Participated East Asia Numerical Astrophysics Meeting (EANAM5)*, Oct 28- Nov 2, 2012, YITP, Kyoto University, Kyoto, Japan
29. *Participated 39th COSPAR Scientific Assembly*, 14-22 July, 2012, Infosys Campus, Mysore, India
30. *Participated The Thirteenth Marcel Grossmann Meeting - MG13*, 1-8 July, 2012, Stockholm University, Stockholm, Sweden
31. *Participated International Conference on Astrophysics & Cosmology*, March 19-21, 2012, Tribhuvan University, Kathmandu, Nepal
32. *Participated International School and Conference on Analytical and Computational Astrophysics*, Nov 14-25, 2011, ICTP, Trieste, Italy.
33. *Attended First Kolkata Workshop on Role of Small Telescopes in Modern Astronomy Research*, 7th-8th November, 2011, Kolkata, India
34. *Participated International Conference on Wideband X-ray Astronomy: Frontiers in Timing and Spectroscopy*, January 13-16, 2011, IUCAA, Pune, India.
35. *Participated International Conference on Accretion and Outflow in Black Hole Systems*, October 10-15, 2010, Kathmandu, Nepal
36. *Attended Symposium on Developments in Space Research in the Last 25 Years*, 16th November, 2008, Indian Centre for Space Physics, Kolkata, India
37. *Participated First International Conference on Science with Very Low Frequency Radio Waves*, March 13-18, 2010, Kolkata, India
38. *Participated International Conference on Observational Evidence for Black Hole in the Universe*, February 10-15, 2008, Kolkata, India
39. *Attended National Conference on Uncertainty: A Mathematical Approach*, An UGC Sponsored National Conference, September 7-8, 2006, Burdwan, West Bengal, India
40. *Participated Bose Fest, 2008, 2010, 2011, 2012 & 2013* at S. N. Bose National Centre for Basic Sciences, Kolkata, India

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1. **Expert System with Applications**, SCI Impact Factor: 7.5, Elsevier
2. **Information Processing and Management**, SCI Impact Factor: 7.4, Elsevier
3. **IEEE Transactions of Artificial Intelligence**, SCI Impact Factor: 5.94, IEEE
4. **Neurocomputing**, SCI Impact Factor: 5.5, Elsevier
5. **Heliyon**, SCI Impact Factor: 3.4, Cell Press
6. **Astronomy and Computing**, SCI Impact Factor: 1.9, Elsevier
7. **Scientia Iranica**, SCI Impact Factor: 1.4, Sharif University of Technology
8. **Computers, Materials and Continua**, SCI, Tech Science Press
9. **Machine Learning with Application**, SCI, Elsevier
10. **TELCOMNIKA**, SCI, Universitas Ahmad Dahlan (UAD)
11. **IJEECS**, Scopus, Institute of Advanced Engineering and Science (IAES)
12. **IJEECS**, NITTTR Journal, Journal of Engineering Science & Education

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