

**Report
on
5 Days Offline Hands on Workshop**

Title: “Bioinformatics and Molecular Docking”.

Dates: 4th – 8th August 2025

Time: 10:00 AM – 4:30 PM (Daily)

Venue: Conference Hall (317) and Computer Labs (310, 313), Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex (SurTech), Dum Dum, Kolkata.

Organized by: Department of Basic Science & Humanities, Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex (An Autonomous Institution), JIS Group in collaboration with Subhami Biopharma (OPC) Pvt. Ltd., Kolkata.

Mode: Offline

Introduction:

We are delighted to announce that the Department of Basic Science & Humanities, Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex (An Autonomous Institution under the JIS Group, Dum Dum), in collaboration with **Subhami Biopharma (OPC) Pvt. Ltd., Kolkata**, is jointly organizing a **5-Day Offline Hands-on Workshop on “Bioinformatics & Molecular Docking”**, scheduled to be held from **4th to 8th August 2025**.

This workshop is designed to offer a **comprehensive introduction and practical training** in bioinformatics tools and molecular docking techniques, both of which play a vital role in **drug discovery** and **computational biology**. The event will feature **renowned scientists, researchers, and industry professionals**, who will share their expertise, insights, and real-world experiences.

In today’s research landscape, Bioinformatics and Molecular Docking have become indispensable for modern biological and pharmaceutical studies, providing innovative solutions to complex scientific challenges. Through **expert-led sessions and hands-on exercises**, this workshop will enable participants to master bioinformatics databases, computational tools, and molecular docking methods. By the end of the program, attendees will have gained both **in-depth theoretical knowledge** and **practical skills** to enhance their academic research and professional careers.

List of Eminent Speakers:

1. **Prof.(Dr.)Atanu Kumar Raha**, IFS(Retd), Ex-Principal Chief Conservator of Forest, WB, Director and Emeritus Professor, Techno India University

2. **Prof.(Dr.) Swapan Kumar Dutta**, Former Vice-Chancellor, Visva-Bharati University, Deputy Director General (crop Science), Indian Council of Agricultural Research
3. **Prof. (Dr.) Pallab Kanti Halder**, Professor, Department of Pharmaceutical technology and Director of School of Natural Product Studies, Jadavpur University
4. **Dr. Ranjana Pal**, Asst Professor, Department of Life Sciences, Presidency University.
5. **Dr. Mousumi Saha**, Entrepreneurship Coordinator, IKN Foundation, IMI Kolkata
6. **Dr. B. Bindu**, CEO, Atal Incubation Centre, NIPER Guwahati Foundation, Guwahati, Assam.
7. **Dr. Biswajit Das**, Asst. Professor in Physics, BSH Dept., SurTech
8. **Dr. Debabrata Ghosh Dastidar**, Associate Professor, Guru Nanak Institute of Pharmaceutical Science and Technology

Objectives:

1. To introduce participants to bioinformatics concepts and molecular docking principles.
2. To provide **hands-on training** in computational tools used for protein, ligand, and drug design studies.
3. To develop skills in retrieving, analyzing, and interpreting biological data from global databases.
4. To train participants in **in-silico experiment design** and molecular dynamics simulations.
5. To enable participants to present computational results in dissertations, research papers, and peer-reviewed journals.

Learning Outcomes of the workshop:

1. Use bioinformatics databases for sequence retrieval and analysis.
2. Perform **BLAST analysis**, sequence translation, and protein structure prediction.
3. Conduct **multiple sequence alignments** and construct phylogenetic trees.
4. Retrieve and prepare protein and ligand structures for docking.
5. Execute molecular docking experiments and analyze docking results.
6. Apply molecular dynamics simulations to study protein–ligand interactions.
7. Represent computational results effectively in academic and professional research.

Key Highlights

- Expert sessions by **renowned scientists** and **industry professionals**.
- Hands-on training in:
 - Bioinformatics tools and databases
 - Sequence retrieval and BLAST analysis
 - Protein structure prediction and homology modelling
 - Multiple sequence alignment
 - Phylogenetic tree construction

- Protein and ligand preparation for docking
- Molecular docking techniques

Molecular dynamics simulation and data interpretation

- Designing **in-silico experiments** for research.
- Guidance on **research publication and thesis writing**.
- Interactive Q&A sessions and collaborative group activities.
- Certificate of participation for all attendees.
- Networking opportunities with researchers and peers.

About Participant

The workshop witnessed the participation of 46 individuals, with the majority hailing from West Bengal and a few from Odisha. The attendees represented a wide spectrum of designations, including Assistant Professors, Associate Professors, UG and PG students, PhD scholars, and research fellows, coming from private, public, and government institutions. This rich diversity of backgrounds and expertise fostered a dynamic, engaging, and intellectually stimulating environment throughout the event.

Participant Feedback

The workshop received highly positive feedback from participants, who praised the quality of the sessions, the relevance of the topics, and the valuable insights shared by industry experts with hands-on experience. E-certificates were awarded to participants who successfully completed the program, acknowledging their dedication to professional growth and continuous learning.

Acknowledgement

The organizers extend their heartfelt gratitude to Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex (SurTech), JIS Group, and Subhami Biopharma (OPC) Pvt. Ltd. for their collaborative efforts in making this workshop a reality. We sincerely thank all the invited speakers for their invaluable contributions and for generously sharing their expertise with our participants. Special appreciation is due to the speakers, trainers, and technical team whose dedication ensured the success of the event. Our gratitude also goes to the participants from across India for their enthusiastic engagement and active involvement, which played a vital role in making the workshop a resounding success.

We gratefully acknowledge the support of institutions such as **Techno India University, GNIPST, M.R. College of Pharmaceutical Sciences and Research, Teivenidevi Bhalotia College, Vedanta College, Kolkata, Silicon University, Bhubaneswar, Presidency University, The Neotia University, Ramakrishna Mission Vivekananda Centenary College, and Oriental Institute of Science and Technology** for encouraging and motivating their students to register and participate in the workshop. Finally, we acknowledge the unwavering support of the faculty members of the Department of Basic



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Science & Humanities, Prof. (Dr.) Saradindu Panda, Principal, DSCSITSC, and Chief Patron Sardar Taranjit Singh, Managing Director, JIS Group, for their constant encouragement and guidance.

Conclusion: This 5-day hands-on workshop will serve as a platform for skill development, academic enrichment, and professional networking in the fields of **Bioinformatics** and **Molecular Docking**. The fusion of expert knowledge with practical training will empower participants to apply computational approaches in their research and career pursuits. We look forward to an engaging and fruitful learning experience for all

Glimpses of the Event:



Some photos of 5 days Workshop during 4-8 August 2025 jointly organized by BSH dept & Subhami Biopharma Pvt. Ltd.



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Feedback Form

Workshop Title: 5-Day Hands-on Offline Workshop on "Bioinformatics and Molecular Docking"
organized jointly by Shubhami Biopharma(OPC) Pvt. Ltd and Basic Science & Humanities Department,
SurTech.

Dates: 4th August 2025 to 8th August 2025

Venue: SurTech, Dum Dum Campus

Please provide your feedback for each day of the workshop. Tick the appropriate box for each question.

Day 1

Day	Excellent	Good	Average	Poor
Relevance of topics covered	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clarity of presentation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hands-on session effectiveness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interaction and engagement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall satisfaction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Day 2

Day	Excellent	Good	Average	Poor
Relevance of topics covered	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clarity of presentation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hands-on session effectiveness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interaction and engagement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall satisfaction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Day 3

Day	Excellent	Good	Average	Poor
Relevance of topics covered	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clarity of presentation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hands-on session effectiveness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interaction and engagement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall satisfaction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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Day 4

Day	Excellent	Good	Average	Poor
Relevance of topics covered	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clarity of presentation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hands-on session effectiveness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interaction and engagement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall satisfaction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Day 5

Day	Excellent	Good	Average	Poor
Relevance of topics covered	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clarity of presentation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hands-on session effectiveness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interaction and engagement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall satisfaction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments or Suggestions:

It was a very fruitful Journey for me as a learner of related new topics. Please organize such sessions more to learn and kindly if you help later on about this docking practice if I needed in future. And thank you for this experience.

Name of Participant: Shraya Dey

Occupation: M. Pharm - Pharmacology student

Name of Organization: Gurukul Nanak Institute of Pharmaceutical Science and Technology

Department: Pharmacology

Contact No.: 9163292366

E Mail ID: shraya02day@gmail.com

Signature: Shraya Dey



				Attendance (Short Signature Only)				
				04-08-2025	05-08-2025	06-08-2025	07-08-2025	08-08-2025
Ayusree Ray	9792777007	GURU NANAK INSTITUTE OF PHARMACEUTICAL SCIENCE & TECHNOLOGY	PG Student	Ayusree Ray	Ayusree Ray	Ayusree Ray	Ayusree Ray	Ayusree Ray
Abhi Malakar	9875316986	Guru Nanak Institute of Pharmaceutical Science and Technology	PG Student	Abhi Malakar	Abhi Malakar	Abhi Malakar	Abhi Malakar	Abhi Malakar
Aliva Mitra	6288735436	Techno India University	UG Student	Aliva Mitra	Aliva Mitra	Aliva Mitra	Aliva Mitra	Aliva Mitra
ANANYA PAL	8637500318	Tejendadevi Bhaloti College Raniganj	UG Student	Ananya Pal	Ananya Pal	Ananya Pal	Ananya Pal	Ananya Pal
Ankita Bose	6291544653	Techno India University	UG Student	Ankita Bose	Ankita Bose	Ankita Bose	Ankita Bose	Ankita Bose
Anusuya Banerjee	6291747290	Techno India University	UG Student	Anusuya Banerjee	Anusuya Banerjee	Anusuya Banerjee	Anusuya Banerjee	Anusuya Banerjee
Anwesha Dutta	6291889407	M.R. College Of Pharmaceutical Sciences and Research	UG Student	Anwesha Dutta	Anwesha Dutta	Anwesha Dutta	Anwesha Dutta	Anwesha Dutta
Archita Ray	7044984953	Techno India University	UG Student	Archita Ray	Archita Ray	Archita Ray	Archita Ray	Archita Ray
Arnob Saha	9832228909	GURUNANAK INSTITUTE OF PHARMACEUTICAL SCIENCE & TECHNOLOGY	UG Student	Arnob Saha	Arnob Saha	Arnob Saha	Arnob Saha	Arnob Saha
Arnob Haldar	7960211097	Gurunank Institute of Pharmaceutical Science and Technology	PG Student	Arnob Haldar	Arnob Haldar	Arnob Haldar	Arnob Haldar	Arnob Haldar
Atanu Kundu	7679726739	Guru Nanak Institute of Pharmaceutical Science and Technology	PG Student	Atanu Kundu	Atanu Kundu	Atanu Kundu	Atanu Kundu	Atanu Kundu



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5-DAY WORKSHOP ON BIOINFORMATICS AND MOLECULAR DOCKING

Organized By

Subhami Biopharma(OPC)PVT.LTD.and

Department of Basic Sciences and Humanities,

Dr.Sudhir Chandra Sur Institute of Technology and Sports Complex,Dumdum

Schedule of 5-Day workshop

Date	Name of the activity	Venue	Time
04/08/2025 (Day 1)	Tilak Ceremony	Conference Hall	10am-11am
	Welcome of the Guests of Honour and Eminent Speakers	Conference Hall	10am-11am
	Lighting of Lamp	Conference Hall	10am-11am
	National Anthem	Conference Hall	10am-11am
	Welcome address by Professor.(Dr.)Saradindu Panda,Principal of Dr. Sudhir Chandra Sur Institute of Technology	Conference Hall	10am-11am

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Inaugural Speech by Dr.Subhalakshmi Ghosh,Founder and Director Subhami Biopharma(OPC)Pvt.Ltd and Dr.Dipankar Das,HOD,Department of Basic Sciences and Humanities,Dr.Sudhir Chandra Sur Institute of Technologyand Sports Complex.	Conference Hall	10am-11 am
Felicitation to the Guests of Honour and Eminent Speakers (Brief address by all the eminent guests)	Conference Hall	10am-11 am
Vote of Thanks by Dr.Biswajit Das,Asst Professor of Physics, Department of Basic Sciences and Humanities,Dr.Sudhir Chandra Sur Institute of Technologyand Sports Complex	Conference Hall	10am-11 am
Welcome Tea		11:15am-11:30am
Plenary Lectures by Prof.(Dr.)Atanu Kumar Raha,IFS(Retd),Ex-Principal Chief Conservator of Forest,WB,Director and Emeritus Professor,Techno India University -&- Prof.(Dr.) Swapan Kumar Dutta,Former Vice-Chancellor,Visva-Bharati University,Deputy Director General(crop Science),Indian Council of Agricultural Research	Conference Hall	11:30am-12:30 pm
Lectures by Prof.Pallab Kanti Halder,Professor,Department of Pharmaceutical technology and Director of School of Natural Product Studies,Jadavpur University and Dr.Ranjana Pal,Asst Professor,Department of Life Sciences,Presidency University.	Conference Hall	12:30pm-1:30pm
Practical session by Mr. Ankit Saha ,Research Assistant,Subhami Biopharma(OPC) Pvt.Ltd and Ms.Indrakshi	Computer	1:30pm-



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	Mondal, Research Assistant, Subhami Biopharma(OPC) Pvt.Ltd	Lab	2:30pm
	Working Lunch	College Canteen	2:30pm-3:00pm
05/08/2025 (Day 2)	Welcome Tea		9:30am-10:00am
	Online Lectures by Dr. Mousumi Saha, Entrepreneurship Coordinator, IKN Foundation, IMI Kolkata and Dr. B.Bindu, CEO, Atal Incubation Centre, NIPER Guwahati Foundation, Guwahati, Assam.	Conference Hall	10:00am-11:00am
	Practical Session by Mr. Ankit Saha and Ms. Indrakshi Mandal.	Computer Lab	11:00am-2:30pm
	Working Lunch	College Canteen	2:30pm-3:00pm
06/08/2025 (Day 3)	Welcome Tea		9:30am-10:00am
	Lectures By Dr. Biswajit Das Faculty of Physics, Sur Tech and Dr. Debabrata Ghosh Dastidar, Associate Professor, Guru Nanak Institute of Pharmaceutical Science and Technology.	Conference Hall	10:00am-11:00am
	Practical Session by Dr. Debabrata Ghosh Dastidar	Computer Lab	11:30am-2:30pm
	Working Lunch	College Canteen	2:30pm-3:00pm



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07/08/2025 (Day 4)	Welcome Tea		9:30am-10:00am
	Practical Session by Mr.Ankit Saha and Ms.Indrakshi Mandal.	Computer Lab	10:00am-1:00pm
	Individual Doubt Clearing	Conference Hall	1:30pm-2:00pm
	Working Lunch	College Canteen	2:00pm
08/08/2025 (Day5)	Feedback Session	Conference Hall	10:00am-11:00am
	Valedictory Session;Certificate and Prize Distribution		11:30pm-1:30pm