Event Report

Event Report

Event Name: Tech Talk on Computational and Theoretical Fluid Dynamics Modelling

Date: 25/04/2024

Time: 4:00 PM onwards

Venue: Mechanical Seminar Room

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1. Introduction

On the 25th of April, 2024, a tech talks on "Computational and Theoretical Fluid Dynamics Modelling" was held at the Mechanical Seminar Room. The event featured Dr. Saikat Basu, a distinguished expert in the field of fluid dynamics, who shared his extensive knowledge and insights with students, faculty members, and professionals.

2. Organizing Committee

- **Innovation and Incubation Centre (IIC), Jadavpur University (JU)**
- **Entrepreneurship Cell (ECell), Jadavpur University (JU)**
- **Basu Lab**

Teacher Coordinators in Charge:

- Prof. Rajib Bandyopadhyay
- Pranibesh Mondal

Student Coordinator in Charge:

- Samayan Mazumder, Project Fellow, IIC

3. Arrival and Registration

Participants began arriving at 3:30 PM, and registration took place at the entrance of the seminar room. Attendees received event materials, including brochures, notebooks, and pens. The registration process was efficiently handled, ensuring that all participants were seated by the start time.

4. Welcome and Introduction

The seminar commenced at 4:00 PM with a welcome address by Rajib Bandyopadhyay. He introduced the theme of the tech talk and underscored the importance of fluid dynamics in various engineering applications. Following this, Pranibesh Mondal provided an overview of the agenda and introduced the guest speaker, Dr. Saikat Basu.

5. Speaker Session

5.1. Session by Dr. Saikat Basu

Dr. Saikat Basu, a leading researcher in fluid dynamics, began his session by outlining the fundamental principles of both computational and theoretical fluid dynamics. He discussed the significance of fluid dynamics in engineering and scientific research, highlighting its applications in aerospace, automotive, and environmental engineering.

5.2. Computational Fluid Dynamics (CFD)

Dr. Basu delved into Computational Fluid Dynamics (CFD), explaining the mathematical models and numerical methods used to solve and analyze problems involving fluid flows. He showcased several case studies where CFD had been employed to optimize engineering designs and improve performance. Real-world applications, such as aerodynamic modeling and climate simulations, were also discussed.

5.3. Theoretical Fluid Dynamics

The session also covered Theoretical Fluid Dynamics, with Dr. Basu explaining the theoretical frameworks and analytical methods used to understand fluid behavior. He highlighted the interplay between theory and computation, demonstrating how theoretical insights can inform computational models and vice versa.

6. Interactive Session and Q&A

Following the presentation, an interactive session was held, allowing participants to engage with Dr. Basu. The Q&A session covered a range of topics, including the latest advancements in CFD software, challenges in fluid dynamics research, and potential future developments in the field. Dr. Basu provided detailed answers and encouraged participants to pursue further research in fluid dynamics.

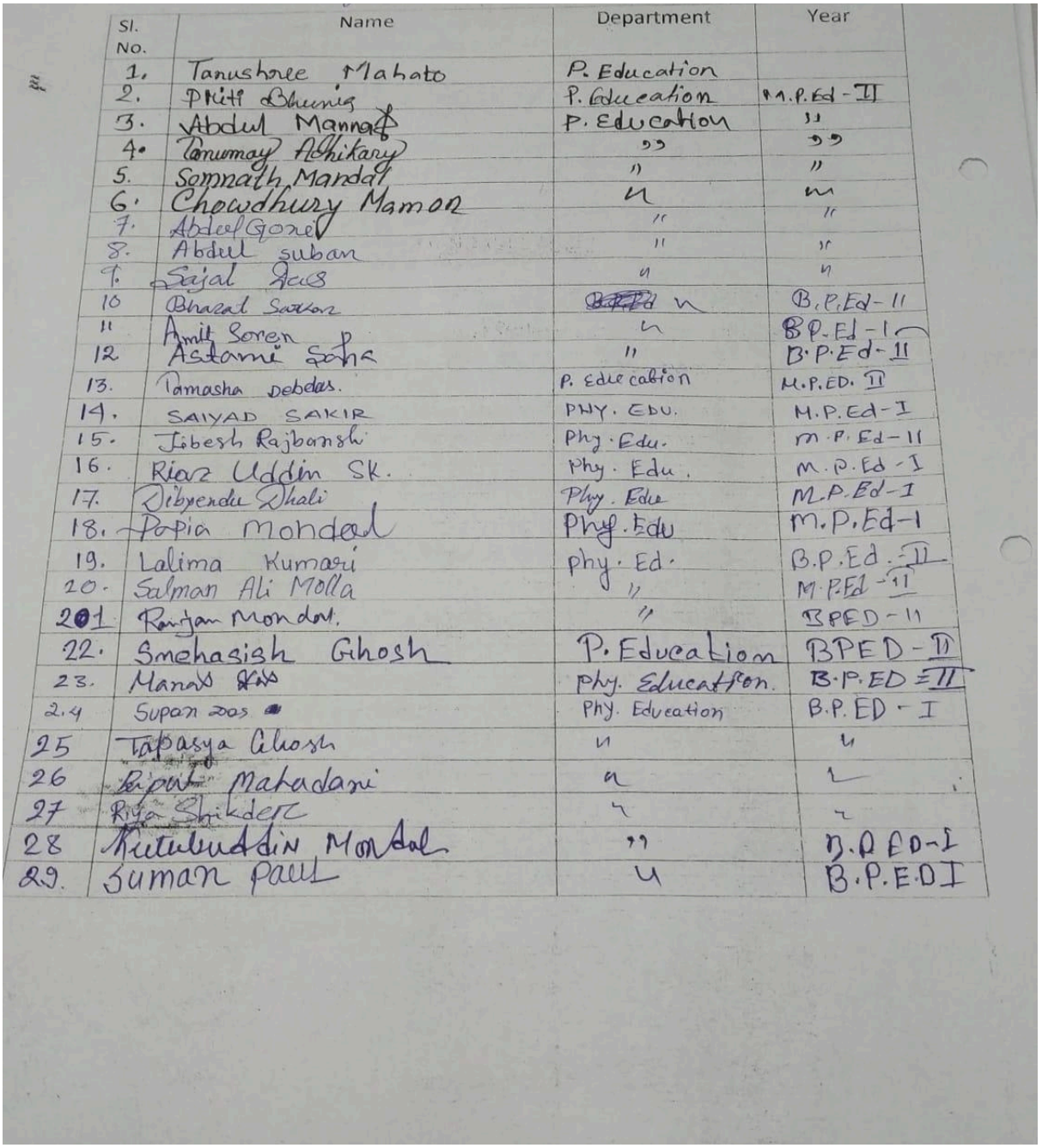
7. Conclusion

The event concluded with a vote of thanks by the Student Coordinator, Samayan Mazumder. He expressed gratitude to Dr. Saikat Basu for his enlightening talk and to all attendees for their active participation. The seminar was well-received, with participants appreciating the depth of knowledge shared and the opportunity to interact with an expert in the field.

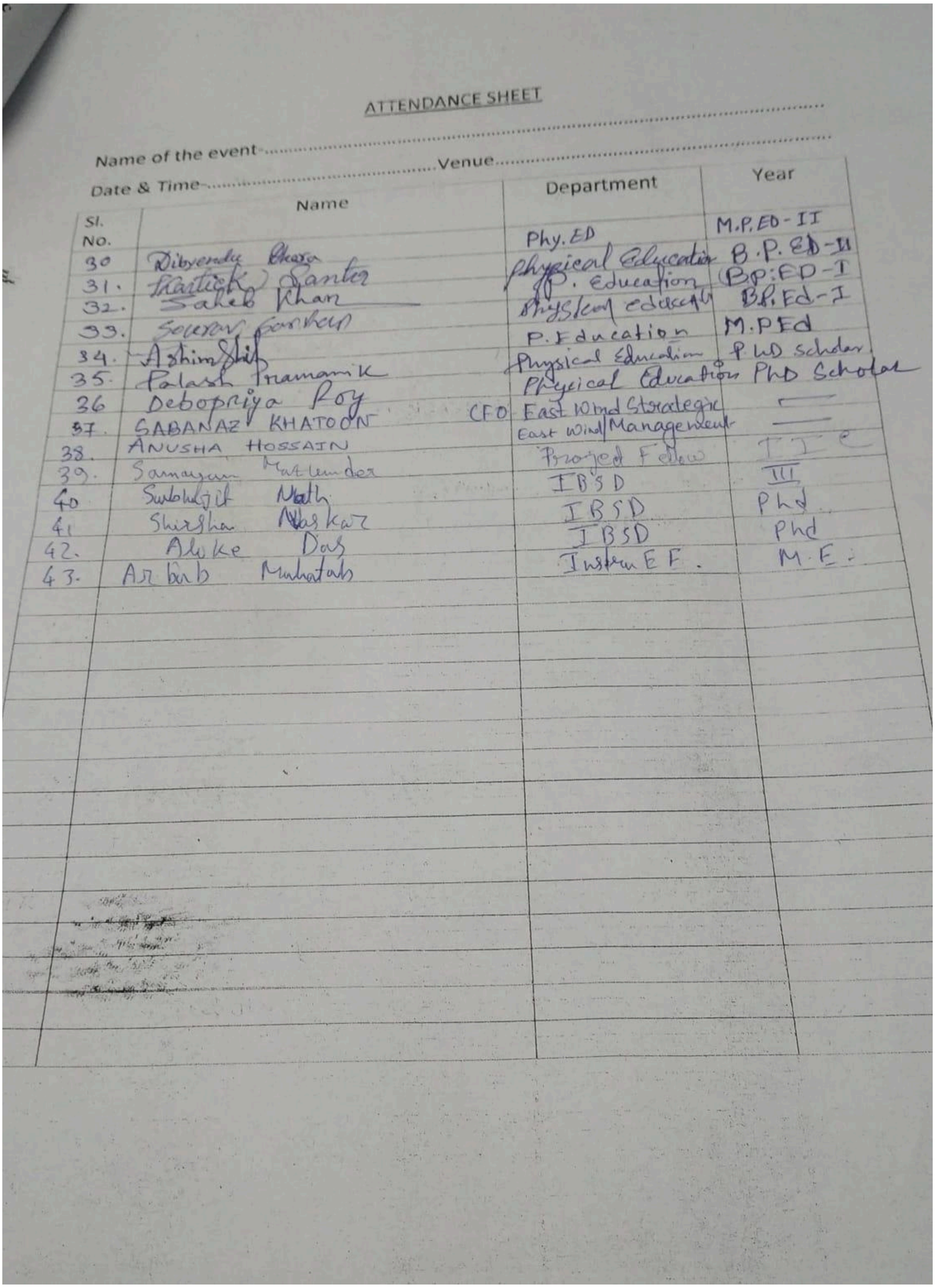
Acknowledgements

We extend our sincere thanks to Dr. Saikat Basu for his informative and engaging presentation, and to all participants for their enthusiasm and engagement. Special thanks to the organizing committee and volunteers for their hard work in ensuring the event's success.

Attendance Sheet



Sl. No.	Name	Department	Year
1.	Tanushree Mahato	P. Education	
2.	Priti Bhunia	P. Education	M.P.Ed - II
3.	Abdul Mannaf	P. Education	"
4.	Tanumay Adhikary	"	"
5.	Somnath Mandal	"	"
6.	Chowdhury Mamon	"	"
7.	Abdel Gore	"	"
8.	Abdul suban	"	"
9.	Sajal Das	"	"
10	Bhaskal Sarkar	"	B.P.Ed - II
11	Amit Soren	"	B.P.Ed - I
12	Astami Saha	"	B.P.Ed - II
13.	Pamasha Debdas.	P. Education	M.P.ED. II
14.	SAIYAD SAKIR	PHY. EDU.	M.P.Ed - I
15.	Jibesh Rajbanshi	Phy. Edu.	M.P.Ed - II
16.	Riaz Uddin SK.	Phy. Edu.	M.P.Ed - I
17.	Dibyendu Dhali	Phy. Edu	M.P.Ed - I
18.	Popia Mondal	Phy. Edu	M.P.Ed - I
19.	Lalima Kumari	phy. Ed.	B.P.Ed. - II
20.	Salman Ali Molla	"	M.P.Ed - II
201	Ranjan Mondal.	"	BPED - II
22.	Snehasish Ghosh	P. Education	BPED - II
23.	Manab	phy. Education.	B.P.ED - II
2.4	Supan Das	Phy. Education	B.P.ED - I
25	Tapasya Ghosh	"	"
26	Bipul Mahadani	"	"
27	Riya Shikder	"	"
28	Kutubuddin Mondal	"	B.P.ED-I
29.	Suman Paul	"	B.P.ED I



ATTENDANCE SHEET

Name of the event..........

Date & Time.......... Venue..........

Sl. No.	Name	Department	Year
		Phy. ED	M.P.ED-II
30	Dibyendu Ghosh	Physical Education	B.P.ED-II
31.	Kartick Santra	P. Education	B.P.ED-I
32.	Saheb Khan	Physical education	B.P.Ed-I
33.	Sourav Sarkar	P. Education	M.P.Ed
34.	Ashim Shit	Physical Education	P.hD scholar
35.	Palash Pramanik	Physical Education	PhD Scholar
36	Debopriya Roy	CFO East Wind Strategic	—
37.	SABANAZ KHATOON	East Wind Management	—
38.	ANUSHA HOSSAIN	Project Fellow	IIc
39.	Samayan Matumder	IBSD	III
40	Subhajit Nath	IBSD	Phd
41	Shirsha Naskar	IBSD	Phd
42.	Aloke Das	Instru EF.	M.E.
43.	Arbab Mahatab		

Photos


TECH TALK
on
Computational and Theoretical
Fluid Dynamics Modelling
for Biophysical Systems
25/04/2024 17:31


25/04/2024 17:32


Computational and theoretical fluid dynamics modeling for biophysical systems
basu Lab
Biomedical and Bioinspired Fluid Dynamics Lab
Pt. Saikat Basu, Ph.D.
Assistant Professor
Department of Mechanical Engineering
South Dakota State University
Brookings, SD 57007, United States
NIH
Aptar


VIRGINIA TECH
2009 - 2014
Department of Engineering Science & Mechanics
Focus: Theoretical Fluid Mechanics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