

Report on

Seminar

Organized by

Biosystems and Ecology Club

**Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex,
(Sur Tech),(Autonomous) JIS Group, Dum Dum**

Title: Seminar on An Integrated Technical Review of Stream Bank Erosion and Sustainable Protective Materials

Data: April 14.09.2026

Mode: Offline

Venue: Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex auditorium (Room No. 317)

No. of participant: 31

Introduction:

The **Biosystems and Ecology Club** of **Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex** organized a technical seminar on **14 September 2026** on the topic “**An Integrated Technical Review of Streambank Erosion and Sustainable Protective Materials.**” The seminar was delivered by **Dr. Sanchayan Mukherjee, Associate Professor, Cooch Behar Government Engineering College.** The session covered the mechanisms of **streambank erosion**, micro- and macro-level analysis, flow-event simulation, and sustainable methods and materials for riverbank protection, including bioengineering, geosynthetics, and hybrid systems.

The seminar was attended by B.Tech and Diploma students of the Institute and provided them with valuable insights into sustainable engineering practices, environmental protection, and the management of riverbank erosion.

Objectives of the Quiz Contest:

- To understand the mechanisms and causes of streambank erosion.
- To introduce students to the micro- and macro-analysis of riverbank erosion.
- To understand the role of hydraulic forces, sediment characteristics, and environmental conditions in erosion.



SurTech

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- To familiarize students with sustainable protective materials and bioengineering techniques.
- To explore the application of geosynthetics and hybrid systems for riverbank stabilization.
- To promote awareness of ecologically sustainable and long-term approaches to streambank protection

Event Coordinators

- **Mr. Souvik Chakraborty**, Convenor, Biosystems and Ecology Club SurTech
- **Dr. Rumrum Banerjee**, Member Biosystems and Ecology Club SurTech
- **Mrs. Debasmitta Manna**, Member Biosystems and Ecology Club SurTech
- **Mr. Manoj Kumar Pandey**, Member, Biosystems and Ecology Club SurTech **Mr.**

Key Highlights of the Event:

- ✓ The seminar provided students with an overview of streambank erosion and its environmental and engineering implications.
- ✓ The speaker explained the fundamental mechanisms involved in riverbank erosion.
- ✓ The session included discussion on micro-level and macro-level analysis of erosion processes.
- ✓ Flow-event simulation and erosion behaviour were presented through technical illustrations.
- ✓ Various traditional and sustainable bank protection methods were discussed.
- ✓ The seminar highlighted bioengineering, geosynthetics, biodegradable materials, and hybrid protection systems.
- ✓ The event promoted awareness of sustainable engineering practices and ecological approaches to riverbank management. Outcomes of the Event.

About Participant:

The seminar witnessed active participation and considerable enthusiasm among the B.Tech and Diploma students of Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex. The students showed keen interest in understanding the technical aspects of streambank erosion, its mechanisms, and sustainable protection techniques. The presentation helped broaden their technical know-how and practical understanding by connecting engineering concepts with real-world environmental challenges. The interactive nature of the session encouraged students to develop greater awareness of sustainable engineering practices, ecological protection, and riverbank management.



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Participant Feedback:

- The seminar provided a clear and practical understanding of riverbank erosion and its management.
- Students found the discussion on the causes, impacts, and control measures of riverbank erosion highly informative.
- The presentation helped students connect theoretical concepts with real-life environmental problems.
- Students appreciated the use of technical examples, illustrations, and practical approaches during the seminar.
- The topic enhanced students' awareness of sustainable riverbank protection and ecological management.
- Students found the session interactive, engaging, and relevant to Civil Engineering and environmental studies.
- The seminar motivated students to learn more about river conservation, erosion control, and sustainable engineering practices.
- Students appreciated the opportunity to gain valuable technical knowledge from an expert perspective.
- The session encouraged students to think about the balance between engineering interventions and ecological protection.
- Overall, students considered the seminar knowledge-enhancing, informative, and useful for their academic and professional development. Overall, the event was enriching, enjoyable, and a valuable academic initiative that enhanced both knowledge and motivation.

Acknowledgement:

The Biosystems Club extends sincere gratitude to **Dr. Sanchayan Mukherjee** for his excellent knowledge sharing on very much important topics River Bank Erosion

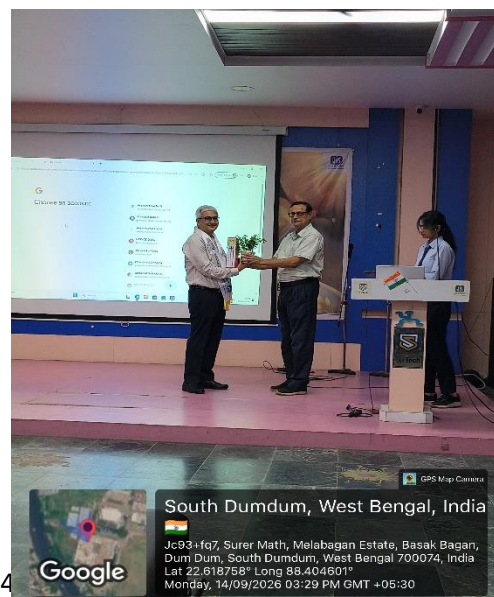
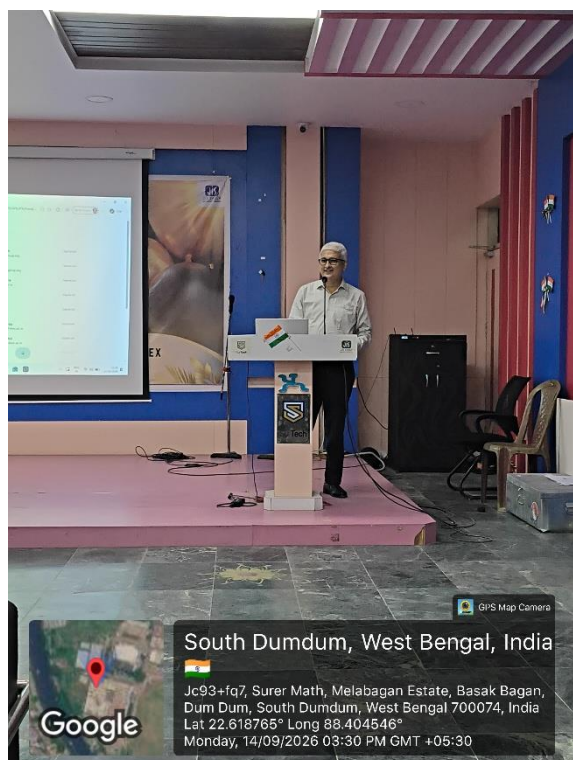
Sincere thanks to **Assistant register Sir Dr. Soumen Basu Sir** for felicitating the eminent speaker

The club further thanks all participants and attendees for their enthusiasm and active involvement, which contributed to the event's success.

Conclusion:

The seminar on Riverbank Erosion and Management, organized by the Biosystems and Ecology Club, was an informative and engaging academic event. It enhanced students' understanding of the causes, impacts, and sustainable management of riverbank erosion. The session successfully connected theoretical knowledge with practical environmental and engineering challenges. The enthusiastic participation of the students reflected their interest in sustainable river management and ecological conservation. Overall, the seminar was a valuable learning experience that encouraged students to develop greater awareness of environmentally responsible engineering practices.

Glimpses of the Event:





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