



ISTE-STUDENT CHAPTER
JALPAIGURI GOVT. ENGG. COLLEGE



Brief Report on Two-Day National Seminar 2026

Theme: *AI-Driven Innovations in Core Engineering Sectors*

Date: 18–19 March 2026

Venue: Language Lab, Jalpaiguri Government Engineering College

Organized by: ISTE JGEC Chapter, Jalpaiguri Government Engineering College

Patron: Dr. Amitava ray, Principal & Chairman-ISTE JGEC Chapter

Coordinator: Prof. Chinmoy Ghosh, Secretary-ISTE JGEC Chapter

A two-day National Seminar titled “**AI-Driven Innovations in Core Engineering Sectors**” was organized by the **ISTE JGEC Chapter** at **Jalpaiguri Government Engineering College** during **18–19 March 2026**. The seminar focused on the growing role of Artificial Intelligence in core engineering domains such as Civil, Mechanical, Electrical, Structural, Geotechnical Engineering, Signal Processing, and Machine Learning. The central objective of the programme was to bridge theoretical AI concepts with practical engineering applications.

The programme was held under the patronage of **Prof. Amitava Ray**, Principal, Jalpaiguri Government Engineering College and Chairman, ISTE JGEC Chapter. The event brought together distinguished academicians and experts from reputed institutions to discuss emerging AI-driven methods, applications, and innovations relevant to engineering education, research, and industry.

On the first day, the programme started with registration followed by the inaugural session. The first keynote lecture was delivered by **Prof. Sheli Sinha Chaudhuri, Jadavpur University**, an expert in **Signal Processing and Machine Learning**. The second keynote session was delivered by **Dr. Arghadeep Biswas, Jadavpur University**, who addressed topics related to **Geotechnical Engineering**. The third keynote session was delivered by **Prof. Indrajit Barua, Jadavpur University**, focusing on **Structural Engineering**. These sessions provided participants with valuable exposure to interdisciplinary applications of AI and modern computational approaches in core engineering fields.

On the second day, the fourth keynote lecture was delivered by **Dr. Sreemana Datta, Amity University**, an expert in **Artificial Intelligence and Machine Learning**. The session emphasized the role of AI and ML in intelligent engineering systems, data-driven decision-making, and future-ready technical education. The seminar concluded with a **valedictory session**, where the major learning outcomes and significance of AI-based innovation in engineering sectors were summarized.

The seminar was supported by the National Advisory Committee and Organising Committee comprising faculty members from various engineering departments. The active involvement of faculty coordinators, organising secretaries, and co-organising secretaries contributed to the successful execution of the event.

Overall, the seminar provided a meaningful academic platform for students, faculty members, and researchers to understand the practical relevance of AI in core engineering domains. It encouraged interdisciplinary thinking, promoted awareness of emerging technologies, and motivated participants to explore AI-based solutions for real-world engineering challenges.



JALPAIGURI GOVERNMENT ENGINEERING COLLEGE

JALPAIGURI

— ISTE JGEC CHAPTER (IM - 516) —

• NATIONAL SEMINAR 2026

AI-Driven Innovations in Core Engineering Sectors

*Bridging Theoretical AI with Practical Excellence in Civil, Mechanical, and
Electrical Infrastructure*



DATE
18 - 19 March, 2026



VENUE
Language Lab, Jalpaiguri Govt.
Engg. College

EXPERT PANEL & KEYNOTES



Prof. Sheli Sinha Chaudhuri
JADAVPUR UNIVERSITY
Expert in Signal Processing & ML



Dr. Arghadeep Biswas
JADAVPUR UNIVERSITY
Expert in Geotechnical Engineering



Prof. Indrajit Barua
JADAVPUR UNIVERSITY
Expert in Structural Engineering



Dr. Sreemana Datta
AMITY UNIVERSITY
Expert in AI & ML

HONORARY PATRON

Prof. Amitava Ray

CHAIRMAN, ISTE JGEC CHAPTER
PRINCIPAL,
JALPAIGURI GOVT. ENGG. COLLEGE

Registration Fees :

- ISTE Member : 100 Rs
- Non-ISTE Member : 250 Rs
- New Members (1st Year Students) : 400 Rs



[Register Here](#)

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University of Technology

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Alipurdwar Govt. Engg. & Management
College

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Prof. Chinmoy Ghosh
Faculty Coordinator, ISTE Student Chapter, JGEC

CO-ORGANIZING SECRETARIES

Prof. Shrayasi Datta & Prof. Sandipan Ganguly
Jalpaiguri Govt. Engg. College

ISTE STUDENT CHAPTER - JGEC - 2026









এআই নিয়ে আলোচনা

জলপাইগুড়ি, ১৯ মার্চ: সাইবার সিকিউরিটি অ্যাটাক শব্দটির সঙ্গে কমবেশি এখন সকলেই পরিচিত। বৃহবারের পর বৃহস্পতিবারও 'এআই ড্রাইভেন ইনোভেশন ইন কোর ইঞ্জিনিয়ারিং সেক্টরস' বিষয়ের উপর সেমিনার অনুষ্ঠিত হয় জলপাইগুড়ি গভর্নমেন্ট ইঞ্জিনিয়ারিং কলেজের ল্যাবুয়েজ ল্যাবে।

এদিন আলোচনা করেন অ্যামিটি ইউনিভার্সিটির অধ্যাপিকা শ্রীমানা দত্ত। তিনি আর্টিফিশিয়াল ইন্টেলিজেন্স (এআই) ও মেশিন লার্নিং-র উপর বক্তব্য রাখেন। শ্রীমানা বলেন, 'সাইবার সিকিউরিটি অ্যাটাক মানে শুধুমাত্র যে সফটওয়্যারে অ্যাটাক করবে হ্যাকাররা তা কিন্তু নয়। এআই-এর মাধ্যমে হার্ডওয়্যার অ্যাটাকও হয়। এক্ষেত্রে আমাদেরও এআই স্ট্রং করতে হবে। তথ্য স্ট্রং হলে হ্যাকারদের বিরুদ্ধে রুখে দাঁড়ানো সহজ হবে। ব্লক চেন প্রযুক্তির ক্ষেত্রে এআই-এর সাহায্যে হ্যাকারের বিরুদ্ধে লড়াই অনেক সহজ। অনেক সময় ডেটা হ্যাকাররা বিষয়টি আটকে দিয়ে থাকেন। নতুন টেকনলজির মাধ্যমে হ্যাকারদের আটকানো সম্ভব।'

END OF REPORT