



B.P. PODDAR INSTITUTE OF MANAGEMENT AND TECHNOLOGY

Department of Computer Science and Engineering

NEWSLETTER

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DEPARTMENTAL VISION

Developing competent professionals in Computer Science and Engineering, who can adapt to constantly evolving technologies for addressing industrial and social needs through continuous learning.

DEPARTMENTAL MISSION

- Enrich students with sound knowledge in fundamentals and cutting edge technologies of Computer Science and Engineering to excel globally in challenging roles in industries and academics.
- Emphasize quality teaching, learning and research to encourage creative thoughts through application of professional knowledge and skill.
- Inspire leadership and entrepreneurship skills in evolving areas of Computer Science and Engineering with social and environmental awareness.
- Instill moral and ethical values to attain the highest level of accomplishment and personal growth



Marie Curie

Marie Curie was a pioneering scientist known for her research on radioactivity. She was the first woman to win a Nobel Prize and the only person to win in both Physics and Chemistry.

Her discoveries of radium and polonium greatly advanced science and cancer treatment. Her life remains a symbol of dedication and scientific achievement.

Program Educational Objectives (PEOs)

- Graduates of Computer Science and Engineering program will have good knowledge in the core concepts of systems, software and tools for analysing problems and designing solutions addressing the dynamic requirements of the industry and society, while employed in industries or work as entrepreneurs.
- Graduates of Computer Science and Engineering program will opt for higher education and research in emerging fields of Computer Science & Engineering towards building a sustainable world.
- Graduates of Computer Science and Engineering will have leadership skills, communication skills, ethical and moral values, team spirit and professionalism

Program Specific Outcomes (PSOs)

- Students will have proficiency in emerging domains like artificial intelligence, data science and distributed computing to develop solutions through innovative projects and research.
- Students will have capabilities to work in synergized teams to cater to the dynamic needs of the industry and society.



**Head of the
Department,
Professor, Advisor:
Dr Ananya Kanjilal**

**Editors:
Parnabi Dandapat,
Soumili Mahindar**

IIPC ACTIVITIES

Generative AI and Prompt Engineering Workshop:

A workshop on **Generative AI and Prompt Engineering** was held on 31st August 2024 by Mr. Mahendra Dutta from Ardent Computech Pvt. Ltd. The session introduced students to the fundamentals of generative AI and the importance of effective prompt design. It highlighted practical applications in areas such as content creation, coding assistance, and problem-solving. Through interactive demonstrations and real-time examples, students learned how to frame clear and precise prompts to obtain accurate results from AI tools. The workshop provided valuable exposure to emerging technologies and encouraged students to explore AI-driven solutions in their academic and professional work.



Workshop on Generative AI and Prompt Engg

Industry Talk on DevOps:

An Industry Talk on DevOps was held on 19th September 2024, featuring Mr. Rohan Sinha and Mr. Kaustav Chakraborty from Tata Consultancy Services, Kolkata. The session covered key DevOps concepts such as CI/CD, version control, automation, and cloud platforms, along with real-world applications. It emphasized collaboration between development and operations teams and provided valuable insights into the skills required for a career in DevOps.



Industry Talk on DevOps

Seminar on Trending Technologies for Placements

A seminar on Trending Technologies for Placements was held on 28th November 2024 by Mr. Rajmohan De Sarkar from Ardent Computech Pvt. Ltd. The session highlighted emerging technologies such as AI, data science, cloud computing, and full-stack development, along with guidance on placement preparation, resume building, and interview skills. It encouraged students to stay updated and focus on continuous learning for successful career opportunities.



Seminar on Trending Technologies

STUDENT ACHIEVEMENTS

Subhraneel Haldar

Subhraneel Haldar has successfully gone to Germany to pursue his Master's (MS) degree, marking a significant milestone in his academic journey. This accomplishment reflects his dedication, perseverance, and commitment to higher education. We wish him continued success and excellence in all his future academic and professional endeavors.



Pranjaly Paul

Pranjaly Paul has achieved a commendable milestone by advancing to Germany for her Master's (MS) studies. Her accomplishment underscores her academic diligence, determination, and passion for higher education. Through this opportunity, she is poised to enhance her knowledge and engage with diverse academic perspectives. We congratulate her on this achievement and wish her continued growth and success in all future pursuits.



CSE's Remarkable Journey to the Finals



The Intra-college Football Tournament 2024 was successfully held at the NKDA Football Stadium, New Town, with enthusiastic participation from various departments, reflecting the true spirit of sportsmanship.

The tournament began with league matches from 3rd to 5th September, where teams competed with energy and determination to advance to the knockout stage.

The Department of Computer Science and Engineering (CSE) showcased an impressive performance throughout. In the semi-final on 13th September, CSE secured a convincing victory against BCA through excellent coordination and strategy, earning a place in the finals.

The grand finale on 14th September featured a thrilling match between CSE and IT. Both teams displayed remarkable skill and teamwork, making it a highly competitive contest. CSE put up a strong fight and emerged as proud runners-up after a closely contested match.

The event also included a friendly match between BPPIMT 11 and Alumni 11, adding a touch of nostalgia and camaraderie. The tournament concluded with a prize distribution ceremony, celebrating sportsmanship, unity, and the spirit of healthy competition.



PUBLICATIONS

- **Mr. Proshanta Sarkar**, Mr. Amitava Podder, Ms. Taruna Chopra, Mr. Manab Kr. Das, Ms. Pooja P. Raj, “ARTIFICIAL INTELLIGENCE: PROBLEM SOLVING ALGORITHMS”, Alpha International Publication, 2024. ISBN NO: 978-93-5762-287-5 [Text Book]
- Barnita Das, **Bikromaditty Mondal**, **Rahul Sinha***, “Exploring Fusion Centrality in Developer Social Networks,” in proceedings of the IEEE International Conference on Big Data Analytics in Bioinformatics (DABCon-2024), Kolkata, India, November 21-23, 2024
<https://doi.org/10.1109/DABCon63472.2024.10919331>
- Amit Khan, Dipankar Majumdar, **Bikromaditty Mondal**, “Judging the Psychological Impact of News Articles on Rehab Patients: A Deep Learning Approach”, In Proceedings of IEEE International Conference on Communication, Computing and Signal Processing (IICCCS), ASANSOL, India, 19-20 September, 2024, pp. 1-5.
<https://doi.org/10.1109/IICCCS61609.2024.10763606>

- **Saksham Sneh Mandal***, **Ananya Kanjilal**, "Requirement-Driven Developer Recommendation Framework Based on Github Developer Social Network", Book Chapter, Lecture Notes in Networks and Systems, LNNS, Vol 1010, Intelligent Computing Systems and Applications, Springer Nature, Proceedings of ICICSA 2023, 20 September 2024, pp. 231-246 (Scopus indexed) https://doi.org/10.1007/978-981-97-5412-0_17
- **Abhijit Bhattacharya**, **Kamlesh Kumar Dubey**, **Bikromaditty Mondal**, "Volume Like Elements of an - Dimensional Simplex in Non-Euclidean Spaces", in Siberian Mathematical Journal (**Science Citation Index Expanded**, Scopus indexed, impact Factor 0.7(2023)), Volume 65, Issue 4, pp. 878–898, 2024.
<https://doi.org/10.1134/S0037446624040141>
- **Manab Kr. Das**, **Proshanta Sarkar**, **Priti Deb** and **Indrajit De**, "IoT Enable Secure Remote Patient Health Monitoring for Treatment Optimization", International Conference on Artificial Intelligence and Sustainable Computing (AISC 24), Springer (**Scopus indexed**) [In Press]
- **Prasenjit Das**, **Manab Kr. Das** and **Proshanta Sarkar**, "Machine Learning based Crop Recommendation System for Modern Agriculture: A Hybrid Approach", International Conference on Artificial Intelligence and Sustainable Computing (AISC 24), Springer (**Scopus indexed**), [In Press]

- Sayandip Bhattacharyya*, Maaitrayo Das*, Amlan Raychaudhuri, Satyabrata Maity, Amlan Chakrabarti and Debotosh Bhattacharjee, “CarNet: An Innovative Cost-effective Driver Monitoring System Using CNN”, 1st International Conference on Artificial Intelligence & Sustainable Computing (AISC 2024), (July 2024), Springer. [In Press]
- R. Majumder, A. Dutta, R. Bhattacharya, and R. K. Pal, “A Hybrid BAT Algorithm for Scheduling Droplet Mixing Operations in Digital Microfluidic Biochips,” *Proceedings of 27th International Symposium on VLSI Design and Test (VDATE-2023)*, Oct 2024, pp. 185-200, Springer Nature. 2025, DOI – <https://10.1007/978-981-97-3756-7>

*Student authors

Byte Sized Wonders 2024–25

1. In 2024, the classic “busy beaver” problem (a very simple-looking Turing-machine task) finally had its 5th case solved: the fifth busy beaver number was found to be 47,176,870.
2. Research published in 2025 analysed 16,193 large-language-model (LLM) papers (from 2019–2024) across 77 major conferences, showing how LLM research is reshaping entire areas of computer science.
3. The organisation IEEE Computer Society reported that in 2024 there were more than 40 new standards finalised and over 75 new project-authorization requests (PARs) launched – signalling how computer science engineering is rapidly moving into formalised, mature phases.
4. In hardware, 2024 saw an increased shift toward practical quantum computing and architectures, e.g., topological qubits, neutral-atom arrays, and more compact ion-trap systems – an exciting sign that quantum computing is inching closer from lab-curiosity to application domain.
5. One notable technology story from 2024: the rise of the startup Perplexity AI, which by late-2024 had ~15 million users and used retrieval-augmented generation (RAG) + other large-language-model methods to challenge traditional web search.
6. At the outreach and education level: for the academic year 2024–25, UCL Computer Science Outreach (in the UK) reached 2,500+ students across 55+ schools and held 30+ events – including their first all-girls hackathon, showing efforts to broaden access and diversity in computer science