



B. P. PODDAR INSTITUTE OF MANAGEMENT & TECHNOLOGY

Department of Computer Science and Engineering

NEWSLETTER

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“
Technology is best
when it brings people
together.”



DEPARTMENTAL VISION

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

DEPARTMENTAL MISSION

- Enrich students with strong knowledge in fundamentals and cutting-edge technologies of Computer Science and Engineering to excel globally in industry and academia.
- Emphasize quality teaching, learning, and research to encourage creativity through the application of professional knowledge and skills.
- Inspire leadership and entrepreneurship in evolving areas of Computer Science and Engineering with social and environmental awareness.
- Instill moral and ethical values to achieve the highest level of accomplishment and personal growth.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- 1 Graduates will possess strong knowledge of core concepts in systems, software, and tools for analyzing problems and designing solutions addressing dynamic industrial and societal needs.
- 2 Graduates will pursue higher education and research in emerging fields of Computer Science and Engineering towards building a sustainable world.
- 3 Graduates will demonstrate leadership, communication skills, ethical values, team spirit, and professionalism.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- PSO 1** Students will have proficiency in emerging domains such as artificial intelligence, data science and distributed computing to develop solutions through innovative projects and research.
- PSO 2** Students will have the capability to work effectively in synergized teams to cater to the dynamic needs of industry and society.



B. P. PODDAR INSTITUTE OF MANAGEMENT & TECHNOLOGY

Department of Computer Science and Engineering

FROM THE EDITORIAL DESK

The Department of Computer Science and Engineering proudly presents the November 2023 edition of the Newsletter. This issue highlights the department's academic progress, technical initiatives, student achievements, research activities, and vibrant campus engagements from June to November 2023.

The semester witnessed coding competitions, expert lectures, industry interactions, innovation programs, student chapter initiatives, and commendable accomplishments by students and faculty members. These milestones reflect our commitment to excellence, creativity, and continuous growth.

We hope this edition inspires every learner to innovate, collaborate, and strive for greater success.



Editorial Team:
Trashvi Raj • Medhansh Arora • Riddhi Agarwal

CSE AT A GLANCE

<p>20+ PLACEMENT RECRUITERS</p>	<p>280+ SIH PARTICIPANTS</p>	<p>700+ SMART CODER REGISTRATIONS</p>
<p>15+ COLLEGES PARTICIPATED</p>	<p>100+ EXPERT LECTURE / WORKSHOP ATTENDEES</p>	<p>12+ PUBLICATIONS</p>

“The science of today is the technology of tomorrow.”
— Edward Teller



ACADEMIC & TECHNICAL EVENTS

Expert Talks | Seminars | Academic Initiatives | Knowledge Sharing

The Department of Computer Science and Engineering organized and participated in several academic events to promote learning, professional exposure, and emerging technology awareness.

01 SYMPOSIUM ON CHATGPT: OPPORTUNITIES & CHALLENGES FOR EDUCATION

3 July 2023

IEEE ComSoc Kolkata Chapter | **IEEE STUDENT BRANCH BPPIMT** | **IEEE KOLKATA SECTION**

Symposium on CHATGPT: Opportunities & Challenges for Education
organized by IEEE COMSOC Kolkata Chapter and IEEE Kolkata Section in association with IEEE BPPIMT Student Branch

SPEAKERS

Prof. Chiranjib Bhattacharyya
Department of Computer Science and Automation, IISc Bangalore

Prof. Swagatam Das
Electronics and Communication Sciences Unit, ISI Kolkata

Address by IEEE Kolkata Section & IEEE BPPIMT SBC

This Event is in hybrid mode
Offline limited participation on the first come first serve basis. Last date of registration: 30th June 2023
Block C, Auditorium, B. P. Poddar Institute of Management and Technology
137, VIP Rd, Mali Bagan, Poddar Vihar, Poddar Vihar, Kolkata, West Bengal 700052

Contact: Subrata Bhuiin (8918210742) | **3rd July, 2023**
subratabhuiin@ieee.org | **9:00 am – 1:30 pm (IST)**

IEEE COMSOC Kolkata Chapter and IEEE Kolkata Section, in association with IEEE BPPIMT Student Branch, organized a symposium on the impact of ChatGPT in education. Eminent speakers from IISc Bangalore and ISI Kolkata shared their perspectives on AI-driven tools and their influence on teaching and learning.

Students and faculty actively participated in the discussions.

02 INAUGURATION OF BPPIMT ACM STUDENT CHAPTER

22 July 2023



The ACM (Association for Computing Machinery) Student Chapter of BPPIMT was formally inaugurated by Prof. Khalid Saeed and Prof. Rituparna Chaki.

The chapter aims to create a vibrant community of computing enthusiasts and provide opportunities in coding, research, innovation, and global collaboration.

CSE students actively participated in the launch event and have since been driving various technical and knowledge-sharing initiatives under the chapter.

03 INDUSTRY READINESS & DEVOPS SESSION WITH TCS

8 August 2023



A session jointly organized by the Industry Institute Partnership Cell and Tata Consultancy Services focused on industry expectations, employability skills, and modern DevOps tools and practices.

Final-year CSE students gained valuable insights into real-world workflows, agile culture, and the skill sets required to excel in today's technology-driven industry.

04 HUMAN CENTRIC DESIGN: FROM PIXELS TO PEOPLE

25 August 2023



The Department of CSE organized an expert lecture by Dr. Soumya S. Basu, Sheffield Hallam University, UK on the theme of human-centric design and user-focused innovation. The session highlighted the importance of empathy-driven software engineering and global design methodologies.

More than 100 CSE students attended and actively interacted during the engaging and insightful session.

“The beautiful thing about learning is nobody can take it away from you.”
– B. B. King



SMART INDIA HACKATHON

TECHNICAL ACTIVITIES & INNOVATION EVENTS

Hands-on learning, competitive spirit and innovation drive the CSE community forward. Here are some major technical activities conducted during the term.

01 WORKSHOP ON INTERNET OF THINGS (IoT): SOLUTION APPLICATION, OPPORTUNITIES, CAREER & PROSPECTS

5 August 2023

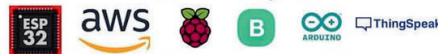
A workshop on IoT introduced students to smart devices, sensors, connectivity, cloud platforms and real-world applications.

Expert sessions and hands-on demonstrations helped CSE students understand emerging technologies and career opportunities in the IoT domain.

Internet of Things (IoT)

Workshop on Solution Application, Opportunities, Career & Prospects

Free Registration

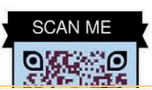


Eligible Candidates: M.Sc./BE/B.Tech/MCA

Organised by B.P.Poddar Institute of Management & Technology, Kolkata

Venue
137, VIP Road, Poddar Vihar, Kolkata - 700052

Date & Time
5th August, 2023 at 10.00 AM



02 SMART INDIA HACKATHON 2023 – INTERNAL ROUND

16 September 2023

The internal round of Smart India Hackathon 2023 was conducted at BPPIMT to identify innovative teams for the national-level competition.

CSE students actively participated and presented ideas in software solutions, AI, healthcare, governance and other real-world problem statements.



03 SMART CODER 2.23 INTER COLLEGE CODING COMPETITION

6 October 2023

Abhyantran's SMART CODER 2.23 ignited a fierce digital battle on the Coding Ninja platform.

The CSE department truly dominated the day, sweeping the podium to claim both the Winner's title and the 2nd Runner-up spot—a stellar display of technical brilliance and department pride!



LEARNING OUTCOMES

- ENHANCED CODING SKILLS
- TEAMWORK & COLLABORATION
- INNOVATION & PROBLEM SOLVING
- PRACTICAL EXPOSURE
- INDUSTRY READINESS



“ Learning never exhausts the mind. – Leonardo da Vinci





ACHIEVEMENTS & MILESTONES

Celebrating the dedication, talent and hard work of our students and faculty who continue to bring pride and recognition to the department.

1 ACADEMIC EXCELLENCE



PRITAM DE
GATE – CS, 2023
ALL INDIA RANK 99

Marking a landmark achievement in academic excellence, Pritam De secured an extraordinary All India Rank (AIR) of 99 in GATE 2023.

This prestigious national ranking reflects the rigorous technical foundation and competitive spirit fostered within our department.

AYUSH AGARWAL
GATE – CS, 2023
AIR 689

CHAYAN PATHAK
GATE – CS, 2023
AIR 744

ADITI MALLICK
GATE – CS, 2023
AIR 4330



2 COMPETITIONS & TALENT ACHIEVEMENTS



TEAM DEVTA



Aqua Rush Celesta'23,
IIT Patna

A stellar performance by the team in a national level techno-management festival, showcasing innovation, teamwork and technical excellence.



SOUMIK SAHA



League of Errors Coding
Competition

Demonstrated exceptional problem-solving skills and debugging mastery in this rigorous two-day challenge hosted by BBIT.



SRIJEETA DUTTA

SRjanA Poetry Writing
Competition

Secured the **1st Rank** in the intra-college poetry writing competition held in the month of June, celebrating literary prowess and creative expression.



MOHIT KUMAR GUPTA

Quiz Competition - Students
Awareness Week

Clinched the **1st Rank** in the Quiz Competition during Students Awareness Week, reflecting sharp insight and general awareness.

3 PLACEMENT MILESTONES



20+
RECRUITERS

Visited campus during the placement season.



MULTIPLE OFFERS & INTERNSHIPS

Across core tech and emerging domains.



STRONG PLACEMENT RECORD

Consistent growth in opportunities and student selections.



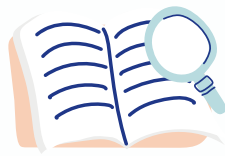
INDUSTRY CONNECT

Meaningful engagement with leading organizations and tech leaders.

“ Success is where preparation and opportunity meet. ”

– Bobby Unser





RESEARCH & PUBLICATIONS

Advancing knowledge, driving innovation, and contributing to society through impactful research.



RESEARCH SNAPSHOT

12+

Publications
in AY 2023–24



Journals,
Conferences &
Book Chapters



Faculty & Student
Collaborative
Research



Interdisciplinary
Impact Across
Multiple Domains

1 STUDENT PUBLICATIONS



**Salmoli Chandra, Jayeeta Chanda,
Sukumar Chandra**

*Prediction of Cardiovascular Disease Using
Machine Learning Algorithms on Healthcare Data*

Journal of Advanced Zoology,
vol. 44, pp. 1215–1221, 2023.

2 FACULTY JOURNAL PUBLICATIONS



**Pratap Chandra Mandal, Imon Mukherjee,
and Biswanathnath Chatterji**

*Integer wavelet transform based high performance
secure steganography scheme QVD-LSB.*

Multimed Tools Appl 83, 62651–62675 (2024).
<https://doi.org/10.1007/s11042-023-17927-w>



**Abhijit Bhattacharya, Kamlesh Kumar Dubey,
and Bikromaditya Mondal**

*Volume of an n-dimensional Polyhedron: Revisited,
Journal for Geometry and Graphics*

HELDERMANN VERLAG, GERMANY, ISSN: 1433-8157,
vol. 27, no. 1, pp. 001–009, July 2023.
<https://www.heldermann-verlag.de/jgg/jgg27/j27h1bhat.pdf> (Scopus)



Salmoli Chandra, Jayeeta Chanda, Sukumar Chandra

*Prediction of Cardiovascular Disease Using Machine
Learning Algorithms on Healthcare Data*

Journal of Advanced Zoology,
vol. 44, pp. 1215–1221, 2023.



**Banhi Dutta Chudhuri Das, Anirban Patra,
Arijit Saha & Somali Sanyal Sikder**

*Secured communication of multiple compressed
infrared images using 6D hyper-chaotic encryption*

Journal of Optics, pp-1-13,
DOI: <https://doi.org/10.1007/s12596-024-01655-x>

3 CONFERENCE PUBLICATIONS



**Rishav Chanda, Soumi Tokdar,
Jayeeta Chanda, Ananya Kanjilal**

*An Efficient and Cost-Effective Approach
for Targeted Influence Maximization*

In Proceedings of IEEE SILICON,
IEEE Silchar Subsection,
International Conference, November 2023.



**Riya Majumder, Amartya Dutta &
Rajat Kumar Pal**

*Augmentation of mixing quality and its analysis
based on electrode shape diversity in digital
microfluidic biochips.*

International Symposium on Applied Computing
for Software and Smart Systems 2023 Sep 15
(pp. 29–44). Singapore: Springer Nature Singapore.

DOI: https://doi.org/10.1007/978-981-99-7783-3_3

4 RESEARCH ECOSYSTEM & SUPPORT



**Advanced Labs &
Infrastructure**

Well-equipped labs
supporting innovative
research and projects.



Expert Mentorship

Guidance from experienced
faculty driving quality
research outcomes.



**Seminars &
Workshops**

Regular technical talks
and workshops to foster
research culture.



Collaborations

Industry & academic
collaborations for
impactful research.



**Knowledge
Dissemination**

Publications that contribute
to global knowledge and
societal advancement.





ADVANCEMENTS IN SCIENCE & TECHNOLOGY

(June–November 2023)

Remarkable innovations and milestones that are shaping our world and driving a smarter tomorrow.

01 CHANDRAYAAN-3 – A HISTORIC MILESTONE



On 23 August 2023, ISRO's **Chandrayaan-3** successfully soft-landed near the Moon's south pole. India became the first country to achieve this feat, marking a giant leap for India's space journey and inspiring generations.

23 AUGUST 2023

02 RISE OF GENERATIVE AI & LARGE LANGUAGE MODELS



2023 witnessed the mainstream adoption of Generative AI tools like **GPT-4**, transforming the way we create, code, learn, work and solve complex problems across diverse industries.

03 AI SAFETY SUMMIT 2023



The world's first **AI Safety Summit** was held in the UK in November 2023, bringing together global leaders to discuss the safe, ethical and responsible development of Artificial Intelligence.

1–2 NOVEMBER 2023

04 BREAKTHROUGHS IN SEMICONDUCTORS & CLEAN ENERGY



- New chip architectures (3nm and beyond) are driving faster and more efficient computing.
- Scientists achieved 33.9% efficiency in silicon-perovskite tandem solar cells, a major leap for clean energy.

FUTURE SKILLS EVERY CSE STUDENT SHOULD KNOW

Essential skills to stay relevant, future-ready and industry-prepared.



01 ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

- Understand ML concepts, algorithms & frameworks.
- Build intelligent systems that solve real-world problems.



02 CLOUD COMPUTING

- Learn cloud platforms like AWS, Azure, Google Cloud.
- Build scalable, reliable and cost-effective applications.



03 CYBERSECURITY

- Protect systems, networks and data from threats.
- In-demand skill in today's digital world.



04 DATA SCIENCE & ANALYTICS

- Extract insights from data using statistics, Python and visualization.
- Drive data-informed decisions across industries.



05 FULL-STACK DEVELOPMENT

- Build end-to-end web applications.
- Proficiency in frontend, backend and databases is highly valued.



06 PROBLEM SOLVING & ALGORITHMIC THINKING

- Strong DSA and logical thinking remain the foundation of all CSE domains.



“ Innovation distinguishes between a leader and a follower. Keep learning. Keep evolving. Lead the future. ”

“ Research is what I'm doing when I don't know what I'm doing. ”

— Wernher von Braun





Thank you

for being a part of our journey!

This newsletter is a reflection of the creativity, hard work and innovation of our vibrant CSE community. Together, we **learn, build** and **inspire** the future.



Together We Innovate. We Inspire.



TECH FACTS & TRIVIA



The first computer bug was an actual bug.
In 1947, a moth caused a malfunction in the Harvard Mark II computer.



Python was named after Monty Python.
Guido van Rossum, the creator of Python, was a big fan of the comedy group.



Email predates the World Wide Web.
The first email was sent in 1971, while the Web was created in 1989.



Artificial Intelligence and Data Science are transforming every industry.
From healthcare to finance, CSE innovations are shaping a smarter tomorrow.



Code is today's language, creativity is tomorrow's impact.
CSE students don't just use technology, they create the future.



CALL FOR CONTRIBUTIONS

Students, faculty, and staff of the Department of Computer Science and Engineering are invited to share articles, achievements, photos, and creative works for the next issue.



Send your entries to:

hod-cse@bppimt.ac.in



“

*“The future belongs to those who **build it.**”*

– Build. Code. Innovate. Inspire.



GET IN TOUCH



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