



BPPIMT - NEWSLETTER

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of

B.P. Poddar Institute of Management and Technology

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In a fast-paced world, driven by constant connectivity, competition, and pressure, World Meditation Day, observed on December 21, offers a timely reminder of the power of stillness. Declared by the United Nations, this day highlights meditation as a simple yet profound practice that nurtures mental well-being, inner peace, and collective harmony.

Meditation is not limited to any culture, religion, or age group. It is a universal practice that helps individuals slow down, reflect, and reconnect with themselves. Even a few minutes of mindful breathing can reduce stress, improve focus, and restore

emotional balance. In an era where anxiety, burnout, and mental health challenges are rising globally, meditation serves as an accessible and cost-free tool for healing and resilience.

The choice of December 21, the winter solstice, is symbolic. It represents a turning point—from darkness toward light—encouraging introspection and renewal. World Meditation Day reminds us that lasting peace begins within individuals and extends outward to families, communities, and nations.

By embracing meditation in daily life, we cultivate patience, compassion, and clarity. On this day, let us pause, breathe, and recognize that inner calm is not a luxury, but a necessity for a healthier, more harmonious world.

Through a General Assembly resolution, the United Nations designated December 21 as World Meditation Day to encourage mental, physical, and emotional well-being worldwide.

Happy New Year to ALL

Prof. (Dr.) Sutapa Mukherjee
Principal
BPPIMT

ACADEMIC NEWS:

Publications:

Journal:

- **Abhijit Bhattacharya**, Kamlesh Kumar Dubey, Arindam Bhattacharyya, "Geometry of Chain of Spheres Inside an Ellipsoidal Fragment", International Journal of Mathematical Combinatorics Vol3(2024), pp:10-18, October 2024.
- Nguyen Thanh Tien, Pham Thi Bich Thao, Vusala Nabi Jafarova, **Debarati Dey** Roy, "Predicting Model for Device Density of States of Quantum-Confined SiC Nanotube with Magnetic Dopant: An Integrated Approach Utilizing Machine Learning and Density Functional Theory", Silicon,11/2024, Vol:16(16), pages:5991-6009
- **Kakali Karmakar (Sur)**, **Subhasish Das**, Koushik Ghosh, "Pareto Optimization—An approach to find the Optimal Solution Of Blending Problem In a Tea Production Unit", Journal of The Calcutta Mathematical Society, Volume 20, Number 2, Pages 207-211,
- Abhijit Bhattacharya, Kamlesh Kumar Dubey, Bikromaditya Mondal, "Volume Like Elements of a n-Dimensional Simplex in Non-Euclidean Spaces", in Siberian Mathematical, Volume 65, Issue 4, pp.878-898, 2024.

Book Chapters:

- **Proshanta Sarkar**, Amitava Podder, Taruna Chopra, Manab Kr. Das, Pooja P. Raj, "Artificial Intelligence: Problem Solving Algorithms", Alpha International Publication, 2024. ISBN NO: 978-93-5762-287-5.
- **Pia Sarkar**, A. Saha, A. Banerjee, **Vedatrayee Chakraborty**, Satellite and Terrestrial Mobile Integration-Potential and Open Issues for 5G and Terahertz Communication, Next Generation Wireless Communication, pp. 377-394. Singapore: Springer
- 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

Conferences:

- ✍ 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
- ✍ **Sayantana Chakraborti**, **Sudipta Roy**, Soumit Chowdhury, Anirban Goswami, Paramita Dey, Kingshuk Chatterjee, "Dual Layer Validation of Digital Documents with Dynamical Concealment of Signature Fragment Combinations and Authentic Signature Share".
- ✍ S. Santra, D. Majumdar, **S. Mandal**, and A. Deyasi, 'Kernel Based Fuzzy Simulation Model for Early Detection of Cancer to Avoid Metastasis', in 2024 IEEE International Conference of Electron Devices Society Kolkata Chapter
- ✍ Somali Sikder, Madhumita Sarkar, Shila Ghosh "Secured Transmission of Images using Designed Transposed Modified Walsh Code (TMWC) in OCDMA System", CALCON 24, 14-15

PATENTS & COPYRIGHT

1. **5G BASED AI ROBOT FOR FRUIT HARVESTING** International Design Classification: Version: 14-2023 Class: 15 MACHINES, NOT ELSEWHERE SPECIFIED Subclass: 03 AGRICULTURAL AND FORESTRY MACHINERY; Design number: 6391275 Grant date: 24/9/24 Registration date: 16/9/24. **Dr. Debarati Dey Roy**.
2. **A SOLAR POWERED HYDROPONIC SYSTEM**, Patent No.: 202431087481A, Date of Filing: 13-11-2024, Date of Publication: 13-12-2024, Indian Patent Indian Patent (The Patent Office Journal No. 50/2024 Dated 13/12/2024, Page No. 118730), Role as: Co-Inventor: **Dr. Mousam Chatterjee**.

✍ Amit Khan, Dipankar Majumdar, **Bikromaditya 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).

✍ 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), Springer.

✍ 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), July 2024, Springer

✍ Sheetam Coondoo, Stobak Dutta, Amartya Chakraborty and **Gitosree Khan**, "An Approach for Handling Class Imbalance for Emotion Recognition in the Valence-Arousal Plane", 1st International Conference on Artificial Intelligence & Sustainable Computing (AISC 2024),

✍ **Arijit Dey**, Jitendra Nath Shrivastava, "Quantum Inspired Zeroshot Classification For Adverse Drug Reactions Detection From Social Media Reviews", in proceedings of the IEEE International Conference on Artificial Intelligence and Emerging Technology (Global AI Summit – 2024)

✍ **Sayantana Chakraborti**, Pranab Gharai, Anirban Goswami, Soumit Chowdhury, "Multi-Aspect Digital Validation of Ownership Document with Authentic data Driven Applicable Copyright Signature Mapping", 1st International Conference on Artificial Intelligence & Sustainable Computing (AISC 2024), Springer

✍ Barnita Das, **Bikromaditya 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,

✍ Arijit Kumar Barik, Himadri Sekhar Das, Sudipta Banerjee, Heranmoy Maity, Santanu Mishra, **Mousam Chatterjee**; "Study the Improved Efficiency of the Lead-Free CsSnI₃ Perovskite Solar Cells with Variation of Absorber Layer in SCAPS-1D", 2024 IEEE International Conference of Electron Devices Society Kolkata Chapter

✍ Parna Kundu, Sudipta Banerjee, **Mousam Chatterjee**, Himadri Sekhar Das, Aritra Bhowmik, Heranmoy Maity; "Securing the Future of Communication with Quantum Cryptography" 2024 IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON).

INSTITUTIONAL NEWS:

Faculty achievement:

Prof. B. N. Chatterji, Professor Emeritus, former Dean academics of B P Poddar Institute of Management and Technology has been awarded a *life time achievement award* by IIT Kharagpur at their 70th Convocation Ceremony on 30th December, 2024.

Students Achievements:



☞ **Debmalya Banerjee**, B. Tech (EE) 2004 batch & former President of BPPIMT Alumni Association, received National Award for his contribution to Indian industry on 23rd June, 2024. An Electrical Engineer by education, he is the Regional Director (North, South India & Africa) of Indian Chamber of Commerce, based in New Delhi

☞ **Dr. Ria Mazumder** alumni of BPPIMT (ECE 2009 Batch), won the Fitz Dixon Teaching Innovation Award 2024, on 30th October, 2024, one of Widener

University's most prestigious honors. Presently she is the Associate Teaching Professor of Biomedical Engineering and Director for Center for Teaching and Learning, at Widener University, Pennsylvania, USA



☞ **Adrija Ghosh**, student of the Department of Electronics and Communication Engineering secured 1st Runner's Up position in the Inter College Solo Singing Competition at Regalia 2024 organised by RCC Institute of Information Technology, Kolkata



☞ **Priyangshu Das** and **Tanushka Joshi** students from the Department of Electrical Engineering, had the opportunity to volunteer at the prestigious *Future Tech Congress 2024 (FTC)* focused on cutting-edge technologies like Generative AI, Quantum Computing and Industrial Metaverse held in Bangalore during 2nd-3rd September, 2024. Students got the chance to witness high-level discussions on transformative technologies and to gain hands-on experience at large-scale events

☞ **Mr. Mookul Paul**, 4th yr, EE student acquired 3rd position in the Wevicle 5.0 Ideathon organised by Techno Main, Saltlake, Kolkata

☞ **Team Devta** took part in Paridhi 2.24, hosted by Meghnad Saha

Institute of Technology and secured 1st prize in both 15kg War and Robo Race categories.

Industry Visit:



- Department of Electronics & Communication Engineering jointly with SPIE student chapter BPPIMT, organized a one-day Visit at Haldia Dock Complex on 12th August, 2024. Students from 2nd, 3rd and final year participated in this visit accompanied by the faculty members & Technical staff from the department.

Student Chapter Activities:

- SPIE Student Chapter, BPPIMT in association with the department of ECE organized Abhigyan 2.24, the Annual Technical Quiz on 19th & 31st August, 2024.



Conference/Seminar/Workshop organised

- An International Conference on “Artificial Intelligence & Sustainable



Computing” (AISC 2024) organized by Department of Information Technology, B. P. Poddar



Institute of Management & Technology, Kolkata & A. K. Choudhury School of Information Technology, University of Calcutta, India during 11th -13th July, 2024.



- Dept. of Computer Applications, BPPIMT organised " one day Hands on Workshop on IoT " in collaboration with Ardent Computech Pvt. Ltd. on 31st August, 2024 at the Institute to acclimatize the final year students with the new technology and provide them an experiential learning through hands-on training.
- A workshop on “Intellectual Property and Technology Transfer” was conducted on 30th November, 2024 with Mr. Sayantan

Mukherjee, Founder, The Innovators’ Garage and Shri Yogesh D Brahmkar, Innovation Director, AICTE, MIC as speakers

Prosaron (Faculty Seminar Program)

- Two Prosaron sessions were held on 28th November, 2024 and 5th December, 2024 at the Seminar Hall of the Institute. Ms..Pia Sarkar and Dr. Somali Sikder, both from Department of Electronics and Communication Engineering delivered lectures on “Signal attenuation Prediction model in 5G communication” and “Design and Performance analysis of BPON using Transposed modified Walsh code” respectively.
- Sayantan Chakrabarti, Department of Information Technology delivered lecture on 21st December, 2024 at the Institute on “Digital Documents Authentication and Tamper detection.”

Interactive Session – MARGDARSHAN



The Department of Electronics and Communication Engineering, organized a two days’ interactive session “MARGDARSHAN”, for the budding Engineers on 25th July, 2024 and 6th August, 2024 where our distinguished alumni, Mr. Shirsho Dutt (Software engineer) at AIRBUS shared knowledge and expertise on the advancement of recent industry trends and informed the students about opportunities in IT sector.



New Academic session

Academic Class of 2nd - 4th year for Odd semester 2024-25 session commenced on 18th July, 2024 and for first year on 5th September, 2024.

Orientation Programme

The First-Year Student Orientation Program was organised from 22nd - to 24th August, 2024 to welcome the new students along with parents into the institution and providing essential information and support to orient them in the new environment.



Book Exhibition

The Central Library & Information Centre of the Institute hosted a Book Exhibition during 6th -7th September, 2024 The Book Exhibition achieved its objectives of promoting a reading culture.

CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES

● Forum and Cell Activities

✍ **Medical Assistance Cell and NSS cell** of the Institute in collaboration with Netaji Subhash Chandra Bose Cancer Hospital organized "Awareness Programme on Breast Cancer" on 2nd August, 2024. Dr. RL Jena, a leading oncologist, specialized in breast cancer treatment and research along with our institute physician Dr. Anindya.Sen, chief medical officer of Netaji Subhash Chandra Bose Cancer Hospital, enlightened the female faculty, staff & students' members of the institute with a demonstration on regular self-check-up.



✍ **NSS Cell** of the Institute celebrated International Day of Yoga on 17th August, 2024 to encourage the Faculty, Staff and Students members for yoga practice. To highlight the day, a Yoga session was conducted by Ms.Rashmita Mishra, Assistant Professor, Department of ECE.

✍ A "Self-Defense" programme was jointly organised by Dept. of Computer Applications and **NSS Cell**, BPPIMT on 2nd August, 2024 for enhancing the life-skills

of the students and for combating the physical and mental challenges faced by them in every sphere of life.

✍ A blood donation camp was successfully organised by **NSS Cell, Medical Assistance Cell and Institution's Innovation Council (IIC)** of the Institute on 30th August 2024.



✍ An Extempore Competition was organized by **Orators Forum**, BPPIMT on the 13th August, 2024 to mark the Anti-ragging Week during 12th to 18th August, 2024. Ms. Dipti Priya, 2nd year, IT became the winner of this competition

✍ The Intra-college Football tournament 2024 was held in the NKDA Football Stadium, Newton by **Sports Forum**, BPPIMT during 3rd - 14th September, 2024. The final match was held on 14th September between IT and CSE, where IT became the champion. The special attraction was BPPIMT 11 vs Alumni 11 football match which was played with great zeal and enthusiasm.



✍ **ABHIYANTRAN** - The **Technical forum** of the Institute organised Inter-college events- SMART Coder 2.24 (Coding Competition), FORMA 2.24 (Hardware Model Design Competition) & JUNO 2.24 (Arduino Programming Competition) during 20th -21st September, 2024 in association with Institution Innovation Council (IIC) and ACM Student Chapter BPPIMT.



NSS (SFU) BPPIMT Unit, organised plantation drive and Swachhata Pledge taking ceremony on the occasion of NSS Day on 24th September 2024.

✍ **NSS (SFU) BPPIMT UNIT** organised a mass cleanliness drive "Swachhata Hi Seva" campaign on 25th September, 2024 outside our institute premises. Student volunteers participated in the event and created awareness among the public and Road side shop owners for not using single use plastic as well as making our surroundings clean.

Biswakarma Puja Celebration:

Biswakarma Puja was celebrated with great zeal by the student and staff members on 17th September, 2024.

● IQAC Activities

✂ An event on 'Innovation & Entrepreneurship Outreach Program and Robotics Workshop' for school students was organized jointly by the Internal Quality Assurance Cell (and the Institution's Innovation Council BPPIMT in association with the IET Kolkata Local Network at Beler Dhanyakuria Madhyamik Vidyalaya (H.S.) on 23rd July, 2024.



✂ An event on 'Innovation & Entrepreneurship Outreach Program and Robotics Workshop' for school students was organized jointly by the Internal Quality Assurance Cell and the Institution's Innovation Council BPPIMT in association with the IET Kolkata Local Network at Usumpur Adarsha Uchcha Vidyalaya for Girls and Boys on September 4, 2024.



● IIC Activities

✂ Discussion on innovation and Startup by Mr Rahul Joshi an entrepreneur who is currently associated with TCS was organised on 27th July, 2024.

✂ The Institution's Innovation Council' the Research and Development Cell, and the Internal Quality Assurance Cell , organized a seminar on 'How to publish Patents' with Dr. Debarati Dey Roy and Dr. Mousam Chatterjee as speakers on 12th December, 2024.

✂ A session on My Story – Motivational Session by Successful Innovators was conducted on 23rd November, 2024 with Mr. Soumitra Bose, Peoples Diagnostics Research Laboratory (PDxRL) as Speaker.



✂ National Pollution Control Day was organised on 7th December, 2024.

✂ National Energy Conservation Day (India) was organised on 14th December, 2024 with Mr Rajmohan De Sarkar, Founder, Director of Ardent Computech Pvt. Ltd.



✂ A lecturer session on "Industrial Automation using PLC, Scada and Drives" was organised on 11th December, 2024 with Mr. Joydeep Nath, Chartered Engineer in Electrical & Comm Engineering, Institute of Engineers Mr. Apratim Chaudhury, Senior Consultant of Academic & Engineering, Logarithm Consultancy Pvt. Ltd. as speakers.

✂ A School Connect Program on Innovation & Entrepreneurship Outreach Program was organised on 12th December, 2024 by IIC NIRF Coordinator Dr. Surajit Mandal and a workshop on Robotics & Management Workshop was conducted on the same day by Mr. Subhasish Das, Coordinator of Robotics club of BPPIMT

● IIPC Activities

✂ An Industry Talk on Human Centric Design was organised on 24th August, 2024 with Dr. Soumya S Basu, Ex IBM as speaker.

✂ The Industry Institute Partnership Cell of the Department of Computer Science and Engineering, in collaboration with Ardent Computech Private Limited organized a one-day workshop on Generative AI and Prompt Engineering on 31st August, 2024. The session was led by Mr. Mahendra Dutta, who delivered an engaging and thought-provoking presentation.



✂ The Industry-Institute Partnership Cell of the institute collaborated with Tata Consultancy Services (TCS) to organize an industry talk on DevOps for pre-final year on 19th September, 2024. The speakers, Mr. Rohan Sinha and Mr. Kaustav Chakraborty, Subject Matter Experts (SMEs) at TCS, delivered an engaging and informative lecture.

✂ A one-day workshop on IoT by Ardent Computech was organised on 24th September, 2024.

✂ An Industry led foreign language learning program "Japanese Language – N4 Level" was conducted during 2nd - 4th December, 2024 with Ms. Dipti Bhandari, Accenture as speaker.

▪ **Editorial Committee:** The Editorial Committee consists of a team of Faculty Members with Prof. (Dr.) B.N. Chatterji, Former Dean Academics as the Chief Editor, Prof. (Dr.) Sutapa Mukherjee, Principal as the Chief Advisor and Dr. Rikhiya Dhar Assistant Professor, Ms Shashwati De, Assistant Professor as the Joint Editor of the Newsletter.

▪ **Call for Contributions:** Contribution for the Newsletter on the global and national news related to technical, economical, philosophical and general science etc. is solicited from all the members of the BPPIMT family and the students. The prospective contributors are requested to send their writings in about 200 words electronically to the mail address: bppimnewsletter@bppimt.ac.in. Publication in the Newsletter is at the full discretion of the Editorial Committee.