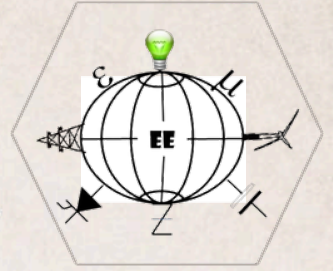




SPARK



A Bi-yearly in-House Newsletter of Department of Electrical Engineering

B.P. Poddar Institute of Management & Technology

Vision of the Institute

To emerge as a progressive and premier Institute for Engineering and Technology education with ethical values for creative engineering solutions commensurate with global changes.

Mission of the Institute

- Offer quality education through modern accessible, comprehensive and research oriented teaching – learning process.
- Create opportunities for students and faculty members in acquiring knowledge through research and development.
- Providing effective interface with industry by strengthening Industry-Institute interaction and developing entrepreneurial skills.
- Meet ever-changing needs for the nation through rationalevolutiontowardsustainable and environment friendly technologies.

Vision of the Department

To emerge as a knowledge hub for higher learningandresearchinElectricalEngineering.

Mission of the Department

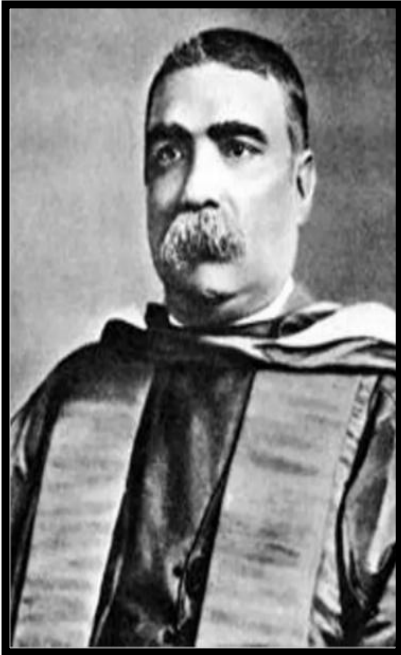
- To create a conducive quality teaching –learning environment to make the student assimilate thorough knowledge in Electrical Engineering. To create a platform for building confidence among faculties and students by exchanging their views through research, interactive sessions with industry and by the use of modern tools. To adopt a goal driven teaching learning method to
- foster innovative entrepreneurship skills in student community with expertise in different engineering domain. To enable students to become authorities in the field of electrical engineering along with sustainable and environment friendly technologies to meet
- the societal needs.

Program Educational Objectives

The graduates of Electrical Engineering shall:

- **PEO-1: Engineering Ethos:** Graduates of Electrical Engineering will be having physical, analytical and technical knowledge and skills to meet challenges of professional career in Industry and Society.
- **PEO-2: Diversification:** Graduates of Electrical Engineering shall gain cross disciplinary knowledge through projects and industrial assignments, leading to a sustainable competitive edge in Research and Development.
- **PEO-3: Ethics and Attitudes:** Graduates of Electrical Engineering shall maintain professional ethics and proper attitude to collaborate with other discipline and lead a team while promoting lifelong learning.

Remembering Ashutosh Mukherjee: Bengali Educator, Mathematician



Sir Ashutosh Mukherjee (1864–1924) was a monumental educator, jurist, and mathematician who redefined the academic landscape of modern India. Born in Kolkata, Bengal Presidency, he was a child prodigy whose early passion for mathematics led to the publication of several original papers while still a student. His most significant academic contribution lay in his transformative vice-chancellorship at the University of Calcutta, where he transitioned the institution from a mere examining body into a world-class center for postgraduate research. By recruiting stellar faculty like C.V. Raman and S. Radhakrishnan, he fostered an environment of intellectual excellence that birthed the "Golden Age" of Bengali science and letters. Beyond the classroom, Mukherjee was a formidable jurist, serving as a judge of the Calcutta High Court. Known as the "Tiger of Bengal" for his fierce academic independence, his legacy remains etched in the institutional foundations of Indian higher education and national self-reliance and technology.

AI Revolution Begins: Machines That Can Think and Create

Artificial Intelligence (AI) is transforming the modern world into a highly intelligent and automated ecosystem where machines can think, learn, and create. Organizations like OpenAI and Google are developing advanced AI systems capable of generating human-like text, images, and solutions, revolutionizing industries such as healthcare, education, and engineering. Powered by high-performance hardware from NVIDIA, these systems process massive data efficiently and make real-time decisions. In electrical engineering, AI enables smart automation, robotics, and intelligent power systems, improving efficiency, reliability, and innovation while fostering collaboration between humans and intelligent machines.



Advancements in Science & Technology

- ❖ OpenAI released GPT-4, an advanced AI model capable of reasoning, problem-solving, and generating human-like content, transforming education, engineering, and research, *March 2023*.
- ❖ SpaceX conducted the first integrated Starship test flight, advancing Moon and Mars missions and next-generation space transport, *April 2023*.
- ❖ The European Space Agency launched the JUICE mission to study Jupiter and its icy moons, exploring extraterrestrial life possibilities, *April 2023*.
- ❖ Micron announced a semiconductor plant in India, strengthening global chip supply chains, *June 2023*.

EVENT CORNER

Workshop on “Awareness of Electrical and Fire Safety”

The Department of Electrical Engineering at *B. P. Poddar Institute of Management and Technology* organized a workshop on “Awareness of Electrical and Fire Safety” on 11th March 2023 for school students. The initiative focused on building fundamental awareness of electrical hazards, fire prevention, and essential safety practices through practical demonstrations. The program effectively bridged academic knowledge with community outreach, fostering safety awareness and emergency preparedness among young learners. It reflected the department’s commitment to social responsibility and nurturing a safety-conscious mindset in the next generation.



Highlights from BPPIMT's Electrical and Fire Safety workshop, featuring participants (top) and live fire prevention demonstrations (bottom).

One-Day Seminar oral health awareness & dental hygiene

On March 17, 2023, the NSS and Medical Assistance Cells of B.P. Poddar Institute of Management & Technology hosted an oral health awareness session at their Kolkata campus. Guest speaker **Dr. Tamanna Hoque** delivered an insightful presentation covering dental hygiene, orthodontics, and cosmetic dentistry trends. The event concluded with the Principal presenting Dr. Hoque with a token of appreciation.



B.P. Poddar Institute hosts Dr. Tamanna Hoque for an insightful seminar on oral health awareness & dental hygiene

PLACEMENT CORNER

The Department is pleased to highlight the recent placement achievements of its students, reflecting their technical competence and industry readiness

Hexaware: Shreya Pani, Nikita Sarkar.

Lumino Industries Ltd: Aisik Das.

MAVENTEC: Souvik Mukherjee, Debargho Thander.

CDAC: Arkadyuti Sarkar.

Cognizant Technology Solutions: Dibyajyoti Sarkar.

NAPS Trainee, at Autoliv India Pvt Ltd: Sreya Roy.

GAME CORNER

FIND THE "WORD"

Rafting Rivers

X	D	R	D	F	A	S	H	C	O	L	D	A	Q
Y	J	N	K	I	N	G	S	Q	O	I	E	O	C
A	I	R	Q	C	I	P	O	T	O	M	A	C	O
W	L	N	U	H	M	G	K	U	F	H	D	C	W
L	O	S	E	S	A	H	A	O	E	H	C	O	Y
E	A	L	E	W	S	K	K	L	A	M	A	T	H
S	N	G	C	K	R	I	L	U	T	E	N	R	E
I	I	S	A	N	T	I	A	M	H	R	A	U	E
L	Z	G	R	U	U	J	V	N	E	C	N	C	U
E	I	G	S	Q	L	S	M	E	R	E	E	K	G
T	N	W	O	C	H	E	A	T	R	D	N	E	O
Z	T	C	N	C	S	Z	Y	S	N	A	K	E	R

ALSEK	KLAMATH	RUSSIAN
ANIMAS	LEHIGH	SANTIAM
CARSON	LOCHSA	SELWAY
CHEAT	MERCED	SILETZ
CHEOAH	NENANA	SKAGIT
COQUILLE	NEW RIVER	SNAKE
DEAD	NIZINA	TOCCOA
FEATHER	OWYHEE	TRUCKEE
GAULEY	POTOMAC	TUOLUMNE
KINGS	ROGUE	WIND

"SUDOKU"

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	4					5		
7								
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						9	5	
9					6		7	
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#45605 Difficulty: easy

3			1
4			
	4	1	3
			4

PUBLICATIONS

- "Electrical Characterization of XLPE Embodied With Copper Oxide Nanoparticles", in proceedings of 2023 IEEE 8th International Conference for Convergence in Technology (I2CT), 7-9 April, 2023, authored by **Dr. Argha Kamal Pal**.
- "Comparative study on daylight glare for different window orientations in summer" in National Science Congress on Illumination: Luminescence 2023, ISBN: 978-93-83660-84-1, Page no. 63-71, Published by Jadavpur University Press Jadavpur University Kolkata 700032, 26-27 th May,2023, authored by **Hena Mahata, Subhajit Sarkar, Dr. Sutapa Mukherjee**.

Call for Contribution: Students, staff and faculty members of Department of Electrical Engineering are requested to send their contribution for newsletter electronically to the email: spark.ee18@gmail.com.