



B.P. PODDAR INSTITUTE OF MANAGEMENT & TECHNOLOGY

137, VIP Road, Poddar Vihar, Kolkata - 700052

Affiliated to MAKAUT (formerly WBUT)

DEPARTMENT OF ELECTRICAL ENGINEERING

B.Tech. program accredited by NBA

Exploring Engineering Excellence...



Courses Offered : B.Tech. Electrical Engineering

<http://www.bppimt.ac.in/EE.aspx>

ABOUT US

- Since inception in 1999, the department is fully committed and continuously striving to create and sustain a congenial academic environment.
- Department of EE has conducive environment to provide state of the art education system where unmatched academic excellence which can transform into practical applications and expertise for the benefit and overall well-being of mankind and society at large.
- The highly qualified faculty members of the department (75% of more than 10 years experience) are involved in research activities in different domains. The Department is also enriched with qualified technical staffs to guide student and nurture their technical skills.

Programme offered: B.Tech. in Electrical Engineering
Intake: 30

Vision & Mission

VISION

To emerge as a knowledge hub for higher learning and research in Electrical Engineering.

MISSION

- 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 authority in the field of electrical engineering along with sustainable and environment friendly technologies to meet the societal needs.

HOD Profile



Dr. Sutapa Mukherjee, B.Sc., B. Tech., M. Tech., PhD
 Assistant Professor & Departmental-in-Charge
 Department of EE

Teaching Experience
 22yrs

Industry Experience :2 yrs

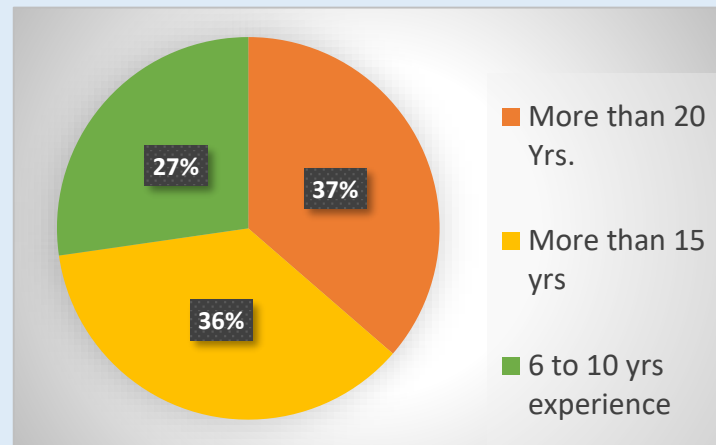
Membership In Professional Body

The Institution of Engineers (India) M-1749573

Faculty Details:

| | |
|-------------------------------|---|
| No. of faculty with PhD | 5 |
| No. of faculty Pursuing PhD | 4 |
| No. of Faculty with PG Degree | 2 |

Faculty Experience:

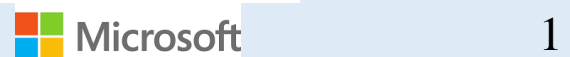


Research & Development

Research Areas:

- Illumination & Energy Systems
- Signal & Image Processing
- Control & Robotics
- Nano-dielectrics

Industry Trained faculty

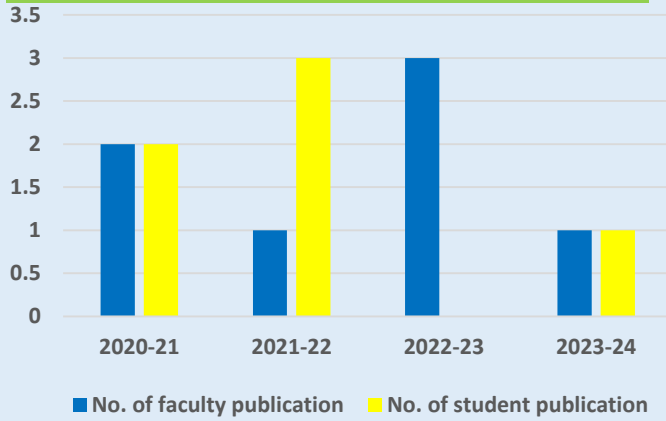


AICTE UHV & ATAL Trained faculty:

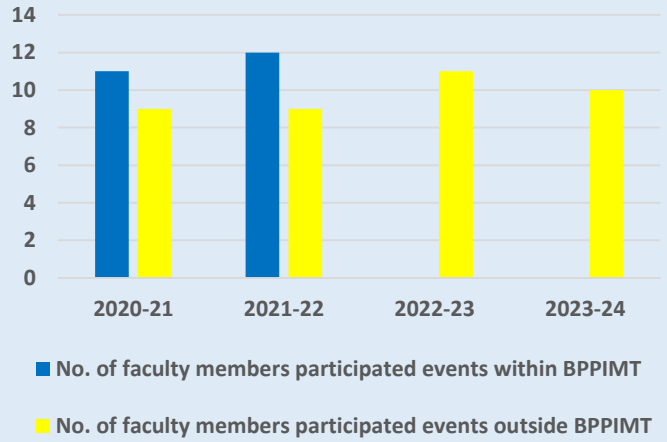


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Faculty and student Publication and Project competition Details:



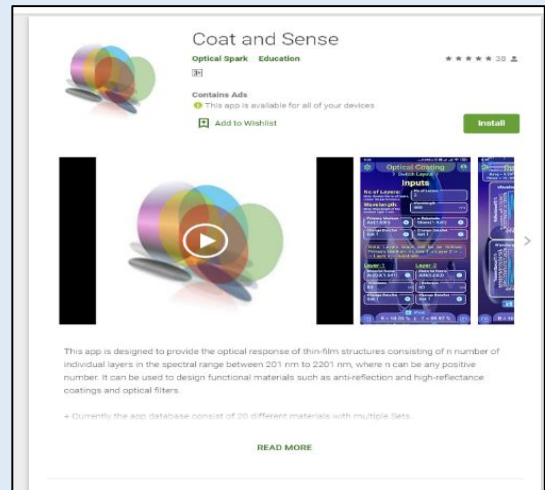
Faculty program (FDP/STTP) participation:



Marketable Products Developed by our Students:



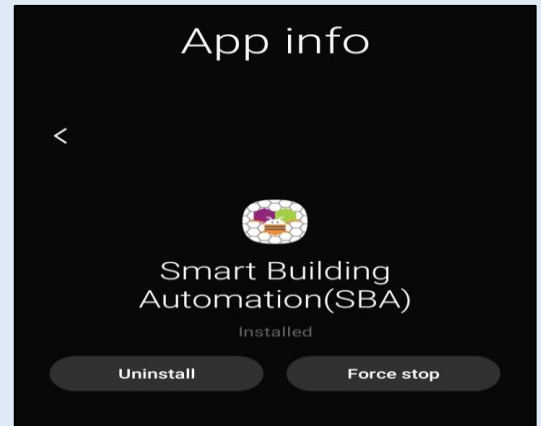
Bhawan Home Automation



Coat & Sense



Electric Blaze

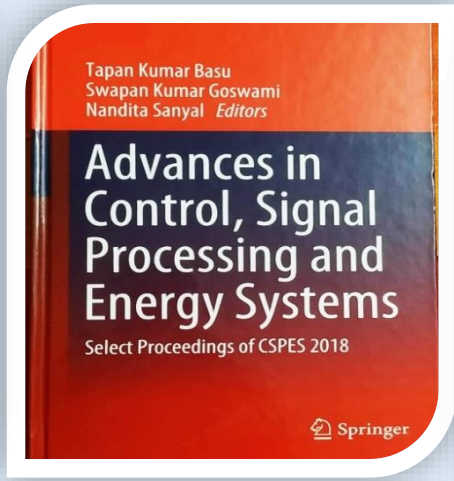


Smart Building automation

Faculty-Student Publications & Achievements:

Details of some of the faculty publications in last three years:

- **Ms. Madhumita Kundu Mondal** Published a paper on 06.04.2020, titled " Fault location in UPFC compensated double circuit transmission line using negative sequence current phasors" in Electric Power System Research, Elsevier, [Volume 184](#), July 2020, 106347.
- **Dr. Sutapa Mukherjee**, Comparative study on analysis of daylight glare from different windows for different seasons, Michael Faraday IET International Summit (MFIIS- 2020) ,Kolkata, ISBN No.: 978-1-83953-272-6, Vol. 1st volume, pp. 69, October -2020
- **Dr. Argha Kamal Pal** published a paper with title, “Studies on prospect of HTV silicone rubber as dielectric material when reinforced with TiO₂ nano particles”, IET Science Measurement and Technology, vol. 15, issue 3, pp.292–301, May 2021.
- **Ms. Anushree Roy** published a paper titled “Optimal switching scheme of thyristor-controlled LC compensator to enhance the power quality in unbalance distribution system” in Springer Nature on 28.03.2023.
- **Dr. Argha Kamal Pal** published a paper with title “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.



Student Publication:

- **Mr. Aritra Basu, Madhurima Bose and Mr. Aritra Ghosh** published a paper with title “AN IoT-based smart building energy management using DSM strategies ” in proceedings of 2024 IEEE 3rd International Conference on Power Electronics and IoT Applications in Renewable Energy and its Control (PARC), 23-24 Feb, 2024.



Curriculum Based laboratory Facility:



8



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1



9



7



6



4

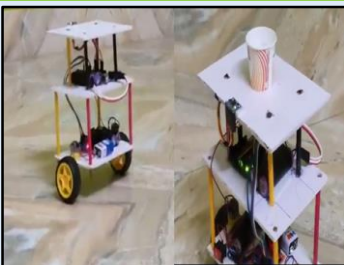


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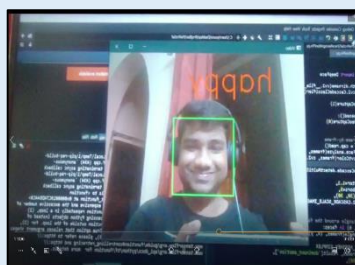
| | |
|----|--|
| 1 | Electrical Machine Lab |
| 2 | Basic Electrical Engineering Lab |
| 3 | Electric Circuit Theory Lab |
| 4 | Power System Lab |
| 5 | Electrical & Electronic Measurement Lab |
| 6 | Power Electronics & Electric Drives Lab. |
| 7 | Control System Lab. |
| 8 | Project Lab |
| 9 | Electrical Simulation Lab |
| 10 | Electrical System Design Lab |

**** Electrical Machine Lab is AICTE MODROB Funded for 2021-2022**

Student Projects:



Self balancing robot



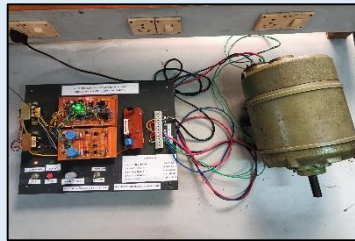
Emotion Recognition



Smart Energy Meter using Arduino UNO



Dual Axis Solar Tracker



Speed Control of DC Motor using DC Chopper



Smart Building Automation

Student Achievements:

2021-2022

- **Aisik Das (3rd Year), Sreshtha Paul (3rd Year) and Mookul Paul (2nd Year)** from 'Team INCOGNITO' secured 1st runner up position in HackFest'22 organised by the NVCTI, IIT (ISM) Dhanbad, from 6th May-8th May, 2022.
- **Sagnik Kundu and Sunayana Ram** secured 1st runner up in Young Engineers Award 2022 organised by IET YPS Kolkata Local Network and CESC Limited at Hotel Hindustan International Kolkata on 29th May, 2022.
- **Mookul Paul** secured 2nd runner up in Young Engineers Award 2022 organised by IET YPS Kolkata Local Network and CESC Limited at Hotel Hindustan International Kolkata on 29th May, 2022.
- **Abhishek Mishra, Mookul Paul, Anchita Biswas and Aisik Das** from won the 1st prize on the topic "Hydroponic Farming" in FORMA 2.22, Inter-college Hardware Model Design Competition held on 26th March, 2022.

2022-2023

- Our Alumni **Subhajit Maur** got **outstanding volunteer award of IEEE** Kolkata section in 2022.

2023-2024

- **Sayan Patra (3rd Year)** won the 2nd prize in **OMEGATRIX, TECHSTORM 2.24**, organised by B.P.Poddar Institute of Management and Technology from 3rd -5th April, 2024.
- **Tanushka Joshi (2nd Year)** won the 2nd prize in **Technical Writing, Techstorm 2.24**, organised by B.P.Poddar Institute of Management and Technology from 3rd -5th April, 2024.



Faculty Achievements:

1. Faculty members, Ms. Anushree Roy, Dr. Susmita Dey and Dr. Sutapa Mukherjee from the Department of EE were honoured by the institute for Academic Excellence, Extra academic affairs and Research and development respectively, in the academic year 2022-23.
2. In 2022, Mr. Aritra Ghosh, Assistant Professor, EE has been elected as Young Professional Chair for IET, Kolkata Local Network.
3. Dr. Argha Kamal Pal received his Ph.D award in 43rd Annual Convocation organized by IIT (ISM) Dhanbad in December 2023.
4. Dr. Susmita Dey received her Ph.D award in 10th Annual Convocation organized by IEST, Shibpur in December 2023.



Professional Society Activity



Switch Gear Workshop at L&T



Representation at **Global Young Professional Community Volunteer Conference 2020** at Bangalore



Mookul Paul secured 2nd runner up in Yong Engineers Award 2022

DEPARTMENT OF ELECTRICAL ENGINEERING

ON CAMPUS BPPIMT, IET KOLKATA NETWORK, is one of the largest On Campus Student Chapter in West Bengal which offers a profusion of opportunities to its members to hone on their technical skills. Members get opportunity to participate in various conferences, seminars, industrial visits and workshops organized by IET. At present, there are 57 student members from the department.

Industrial Visits



Events Organized



Green Minds 2.22, An outreach program for the school students to showcase their potentials.

- Fully automated, real time, round the clock, online wireless field data collection system for tea plantation along with Decision Support System (DSS) software.
- Field parameters: Ambient & Soil Temperature, Soil Moisture & pH, Solar Radiation, Leaf Moisture, Humidity, Insect invasion, diseases, etc.
- An efficient system for production management.
- Provides an online Decision Support System (DSS)
- Instrument is GPS enabled and capable of plotting the soil fertility data on map.

5-day STTP on "In the Wonderland of Forecasting on Energy, Agriculture and Business Data"



Fresher's welcome 2022



BEST WISHES FROM BPIIMT
EPILOGUE -2023
ELECTRICAL ENGINEERING (2019-2023)

5 Day International FDP on Emerging Trends in Sensors, Security and Smart Automation Systems (8th -12th July 2020)

Organized by
Department of Electrical Engineering, B.P. Poddar Institute of Management & Technology
137, VIP Road, Poodar Vihar, Kolkata-700052

Meet Our Speakers

Dr. Mukhopadhyay, School of Engineering, Macquarie University,
Aditya Roy, Department of Electrical Engineering, Jadavpur
University, West Bengal
Dr. S. S. Ghosh, Computer, Electrical, Mathematical Sciences and Engineering
Department, Jeddah University of Science and Technology, Thuwal, Saudi
Arabia
Dr. S. S. Ghosh, Associate Professor, Department of Computer Science
Department of Computer Science
IIT, Shibpur, West Bengal, India
Dr. S. S. Ghosh, Founder and CEO of Azure Software Pvt. Ltd.
Dr. S. S. Ghosh, Founder and CEO of Azure Software Pvt. Ltd.

Chairperson
Prof. (Dr.) Sutapa Mukherjee, Principal, BPIIMT

Advisory Committee
Prof. B. N. Chatterjee, Former Dean Academics, BPIIMT
Prof. Tapen Kumar Das, BPIIMT

Convener
Dr. Nandita Sanyal, IIT, Kharagpur

Coordinators
Dr. Sudip Chakraborty
Dr. Sutapa Mukherjee

Organizing Committee
Ms. Chandrani Das
Ms. Sujata Saha
Ms. Anushree Roy
Ms. Madhumita Kundu (Mondal)
Ms. Susmita Dey
Mr. Subhasish Das
Mr. Aritra Ghosh
Mr. Argha Kamal Pal

Key Area
Health, Home Management and Smart City, Basics of
Measurement of colour, Printed Flexible Sensors for
Applications, Emergence of coding theory based cryptography

Registration Link
<https://bit.ly/3tE7tJy>

Platform: Google Meet
Registration: 5th July 2020
Digital Certificate

Website: <https://etssas2020.webnode.in>
Email: events_ee_bpiimt@gmail.com
Phone no.: 9836961373/Mr. Aritra Ghosh

5 Day International FDP on Emerging Trends in Sensors, Security, Smart Automation Systems

Workshop on Electrical & Fire safety, 11th March, 2023

Webinar on Internet of Things For Electrical Engineers

Our Alumni

Debmalya Banerjee, Regional Director, Indian Chamber of Commerce

Dr. Anirban Som, IIM Trichy

Suddhasatwa Chakraborty, Jadavpur University

Tathagata Sardar,DVC

Tuhin Roy, TCS

Amit Mukherjee, Kahrama, Doha

Dr. Moumita Das,IIT Mandi

Amartya Roy, Worley

Apala Mitra, Siemens

Satyaseel Chatterjee, TCS

Aritra Ghosh, Linde India Limited

Sneha Banerjee, Intel Corporation

Drupad Chatteraj, Accenture

Tanul Chakraborty, Ha MEEM Group, Dhaka

Parijat Bhowmick Post Doctoral Fellow University of Manchester(UK)

Udayan Bhattacharya , Cognizant

Snehashish Laha, Accenture

Sharmili Roy, IBM

Partha Mitra, Accenture Strategy

Rudra Roy , BHEL

Sourav Gargari, Hawkins Cookers

Tapan Singha Mahapatra, WBSETCL

Ranadip Saha, Airport Authority of India

Sk. Sahid Parvez GE

Tausif warsi, Amazon

Binandita De, HSBC

Abhishek Some, Senior QA Engineer at NRI Fintech India

Akash Nag Choudhry, Account manager at HCL Technologies

Madhuprana Goswami, Sprint

Arohita Bhattacharya , Comviva

Sayani Seth Aon India Consulting

Tunir Saha, Bluespacelabs Pvt. Ltd., CEO Skubotics

Soumya Subhra nandy,CTS

Sambit Chakraborty, CTS

Upamanyu Sengupta,WBSEDCL

Jayaprita Samanta, CTS

Gazala Amin Siddiquee,JE ATC at Airport Authority of India

Snehasis Ghosal, B.C. Roy Engg. College

Sourav Gargari Hawkins Cookers Ltd.

Our Recruiters

| Academic Year | Recruiters | Package (PA) |
|--|--------------------------------------|--------------|
| 2021-22 | PWC | 4.44L |
| | CTS | 4L |
| | TCS | 3.36L |
| | Wipro | 3.5L |
| | Infosys | 3.6L |
| | Unified Infotech | 4L |
| | Zensar | 4L |
| | Kreeti-4.5LPA | 4.5L |
| | Tresvista | 6.5L |
| | Byju's | 10L |
| 2022-23 | HCL | 4.25L |
| | Accenture | 4.5L |
| | CTS | 4L |
| | PWC | 7.5L |
| | Hexaware | 4L |
| | Lumino Industries | 3L |
| | IBM | 11L |
| | TCG Digital | 3.36L |
| | Purva Vashi Electricals and Services | 2.25L |
| | MAVENTIC | 7L |
| 2023-24 (Placement drive is still going on) | HMV ISPAT | 1.44L |
| | Royel Research | 1.96L |
| | PWC | 5L |
| | Manikaran Power | 4.25L |
| | Lumino Industries | 2.16L |