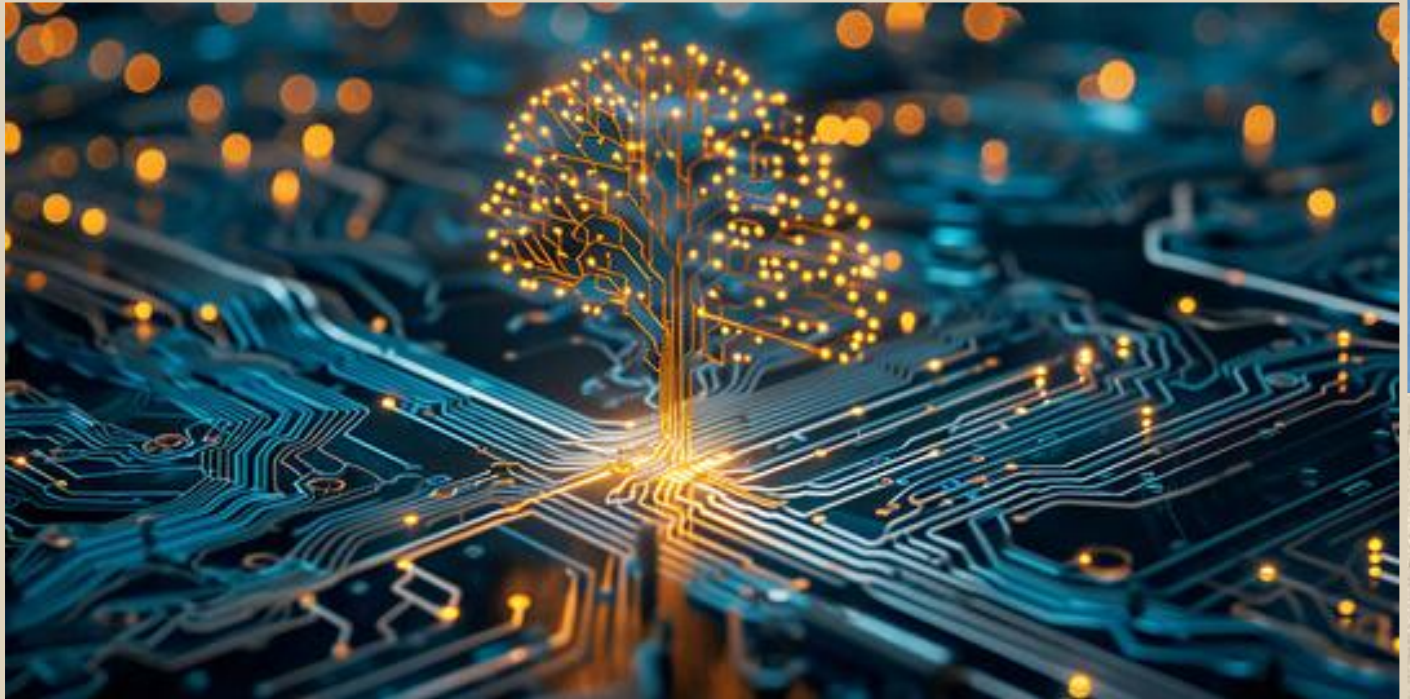


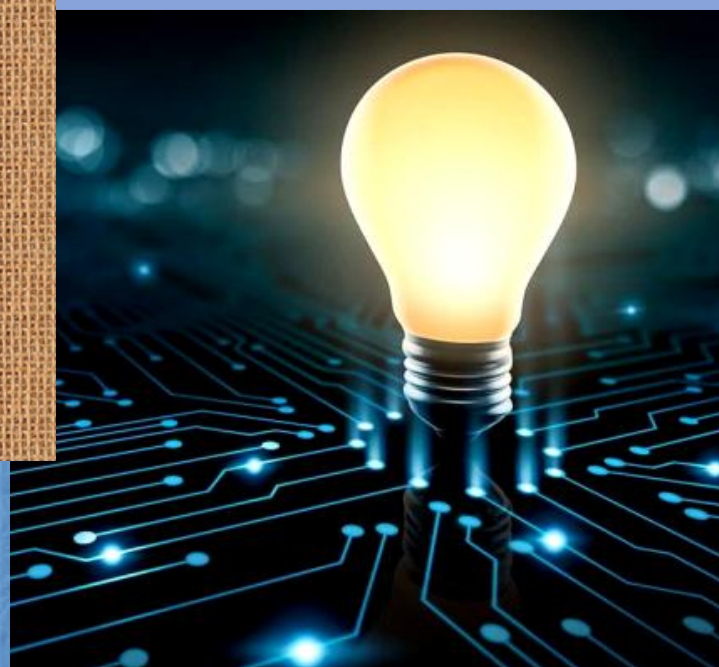
2021-2022



NEWSLETTER



DEPARTMENT OF ELECTRICAL ENGINEERING



The Circuit: Connecting
Knowledge & Innovation



DEPARTMENT OF ELECTRICAL ENGINEERING AJAY BINAY INSTITUTE OF TECHNOLOGY



VISION OF THE INSTITUTE

To promote quality teaching, exploration, research and facilitate holistic development of students that would help create capable technical manpower needed for industry and academia.



MISSION OF THE INSTITUTE

M1: To enable efficiency and prosperity in the society through application of technical knowledge and in collaboration with industry and other institutions.

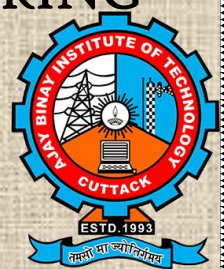
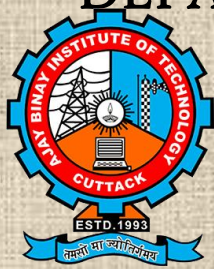
M2: Ensure an effective teaching on contemporary topics and a rational examination system.

M3: Support and create centers of excellence for exploratory technical and behavioral projects that would promote originality and uniqueness.

M4: Establish partnership with local industries for collaborating, understanding and addressing real life technical challenges.

DEPARTMENT OF ELECTRICAL ENGINEERING

AJAY BINAY INSTITUTE OF TECHNOLOGY



VISION OF THE DEPARTMENT



To become a leader in bringing out proficient Electrical Engineers, academicians and entrepreneurs and thereby contribute values to knowledge-based economy and society.

MISSION OF THE DEPARTMENT



M1 : To impart high quality technical education, & promote research activities among the students enabling them to excel as innovative and globally competent professionals.

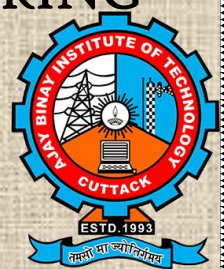
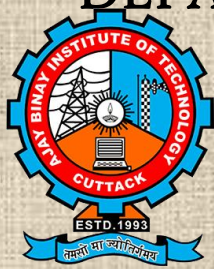
M2 : To bridge the gap between industry and academia by fostering student development initiatives that meet industry needs.

M3 : To develop expertise in complex technical problem-solving skill among the students through application-based learning approach.

M4 : To nurture ethical and socially responsible engineers by providing an educational environment that emphasizes professional integrity, creativity, and teamwork.

DEPARTMENT OF ELECTRICAL ENGINEERING

AJAY BINAY INSTITUTE OF TECHNOLOGY



PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO1 : Apply technical knowledge to solve complex engineering problems, emphasizing ethics, social responsibility, and professional integrity.

PEO2 : Excel in various engineering roles such as design, research, testing, and manufacturing, with skills tailored to meet industry demands.

PEO3 : Engage in continuous learning to enhance their professional skills, fostering innovation and leadership in their respective fields.

PEO4 : Demonstrate creativity and entrepreneurial spirit in developing sustainable solutions to engineering challenges.

PEO5 : Contribute positively to society by applying their engineering expertise to address societal needs, while upholding ethical standards and social commitment.

PROGRAM SPECIFIC OUTCOMES (PSOS)

PSO1. Apply electrical engineering knowledge to design and solve complex electrical and power system problems, ensuring safety and sustainability.

PSO2. Use modern tools and techniques to model, analyze, and improve electrical systems in areas like power and automation.

PSO3. Demonstrate project management, teamwork, and ethical skills to contribute to engineering projects that address societal and environmental challenges.

ANNUAL NEWSLETTER – 2021-22

DEPARTMENT OF ELECTRICAL ENGINEERING
AJAY BINAY INSTITUTE OF TECHNOLOGY, CDA, SECTOR-1, CUTTACK

A Seminar was conducted by Department of Electrical Engineering on “Concept of Entrepreneurship” from 19.07.2021 to 20.07.2021. Mr. Satwik Swain MD, Acurate Engineering Cluster was the resource person and Chief Speaker for the event who motivated students towards entrepreneurship as it can create employment for the future generations.



A Seminar on “Smart Cities and Entrepreneurship” by Mr. Roushan Kumar Niraj, Founder & Managing Director at Oltron Technology from 24.01.2022 to 25.01.2022 was conducted by Department of Electrical Engineering. The aim of the Seminar was to aware students and staff about entrepreneurs initiate technological interventions that help cities undergo socio-technical transitions and become smart cities.



A Seminar on “Electrical Hazards and Electrical Safety in Power Plants” was conducted by Department of Electrical Engineering on 25.02.2022. Er. Debinandan Panda, Manager, Jindal Steel Plant, Odisha was the speaker for the Seminar. He shared his knowledge on power plant safety tips stand in direct opposition to the four primary hazards workers are faced with and offer easy-to-implement solutions that can boost productivity and limit risk.



A Student Development Workshop on “Basic Circuit Analysis”, organised by ABIT's Centre of Applied Research (Energy Efficiency & Sustainability) on 15.04.2022. Er. Gourab Kumar Agarwal Director, Innodust Pvt. Ltd. was conducted the workshop who gave knowledge on Hands-on practice with circuit components, breadboards, and basic circuit design.



A Seminar was conducted by the Department of Electrical Engineering on "Global Warming and role of Engineers" on 12.04.2022. Er. Er. Bikash Swain, Manager, Arati Steel was the speaker for the Seminar who gave knowledge on how Engineers play a critical role in mitigating and adapting to climate change by developing solutions.



An Expert talk on “An overview of Electric Vehicle Technology” organized by ABIT's Centre of Applied Research (Energy Efficiency & Sustainability) on 31.03.2022 under the supervision Er. S.R. Lenka, DGM, PPL Services. The aim of the talk was to how Electric vehicles (EVs) are becoming a promising technology for achieving a sustainable transport sector in the future.



FACULTY PUBLICATION (JOURNAL / CONFERENCE /BOOK CHAPTER)

1. Prof. Debayani Mishra published a paper titled “Frequency amelioration of an interconnected microgrid system” in Open Engineering, 2022.
2. Prof. Shubhalaxmi Mohapatra published a paper titled “A compact UWB notch antenna having a split ring resonator with a slotted radiating element for application in 5G wireless communication “in International Journal of Ultra-Wideband Communications, 2022.
3. Prof. Shubhlaxmi Mohapatra published a paper titled “The 5G Era: Vision, Challenges and Beyond” in International Journal of Advanced Research in Computer and Communication Engineering, 2022.
4. Prof. Shubhalaxmi Mohapatra published a paper titled “IoT x ML: Smart Cities” in International Journal of Advanced Research in Computer and Communication Engineering, 2022.
5. Er. Prasantini Samal published a paper titled “SBP Based Optimal Power Trading in CEM adopting Hybrid DE-PSO” in 2021 1st Odisha International Conference on Electrical Power Engineering, Communication, 2022.
6. Prof. Debayani Mishra published a patent titled “Home Automation and Power Management on Smart Home Using Cloud Server” in communication, 2022.

STUDENT PUBLICATION

1. Mr. Hrushikesh Majhi and Ms. Lipsarani Bhoi published a paper titled “DTMF Based AC & DC Motor Speed Control” in UGC CARE, 2021.
2. Ms. Pratyusha Mohanty and Mr. Ashutosh Behera published a paper titled “ MATLAB Simulation of V2L Operation in Electric Vehicle Charger (Single Phase Model)” in UGC CARE ,2021.

STUDENT ACHIEVMENTS:

1. Saroj Kumar Rout participated and secured 3rd Position in Junkyard in NM Institute of Engineering and Technology (NMIET) NMIET Main Gate, Dumduma, near AIIMS, Sijua, Patrapada, Bhubaneswar, Odisha 751019, held from 27th august 2021.
2. Asish Kumar Panda, Jeeban Samrat Samal and P Debasish Sahoo participated and secured 2nd Position in ROBOMANIA in Modern Institute of Technology &

Management (MITM) Bidyavihar, Kantabada, Khurdha - Chandaka Road, Bhubaneswar, Odisha 752054 held from 13th to 14th September 2021.

3. Hrushikesh Majhi, Jyoti Priyadarshini and Mahesh Barik participated and secured 3rd position in best paper category student XTRACY-2021 organized by Maharaja Institute of Technology (MIT) Khurda Taraboi, Odisha 752050, held from 14th - 15th September 2021.
4. Saroj Kumar Rout participated and secured 3rd Position in Face Painting, ORION (Cultural Fest) Face Painting organized by Gandhi Institute of Excellent Technocrats (GIET) Santi Niketan, Ghangapatana PO: Kantabada, Bhubaneswar held on 4th -5th November 2021.
5. Adarsa Samal and Bedant Das participated and secured 2nd position in best paper category student, JAGRUTI-2021 organized by NM Institute of Engineering and Technology (NMIET) NMIET Main Gate, Dumduma, near AIIMS, Sijua, Patrapada, Bhubaneswar, Odisha 751019, held from 15th -17th November 2021.
6. Gitanjali Panda and Sayed Abas Alli participated and secured 3rd position in best paper category student, GAJAJYOTI 2K21 (Tech Fest), organized by Krupajal Engineering College(KEC), Prasanti Vihar, Kausalyapur, Bhailo, Odisha 752104 held from 20th – 21th December 2021.
7. B.K.Bhabani Sankar , Satya Narayan and Bedant Das participated and secured 3rd position in best paper category student in Ekathra (Technical and Cultural Fest), organized by Gandhi Institute of Technology And Management (GITAM), Saraswati Vihar,Gramadihi, Gangapada, Nilakanthapur, Odisha- 752054, held from 5th – 7th January 2022.
8. Jeeban Samrat Samal participated and secured 3rd Position in Spell bee, CELEGANCE (Cultural Fest), Spell bee, organized by Templecity Institute of Technology and Engineering (TITE) Taraboi, Mouza-Manipur, Ps-Jatani, Tahasil-Jatni, Dist- Khurda, Odisha, Pin-752050 held from 8th – 10th February 2022.