Annual Report-2023-24 Ajay Binay Institute of Technology

Ajay Binay Institute of Technology was established in 1998 with the aim to bridge the gap in skilled technical manpower for industries and extending technical education to rural areas of Odisha. It is a part of ABIT group of Institutions.

Throughout its 26-year journey, Ajay Binay Institute of Technology has made remarkable strides in developing state-of-the-art infrastructure and fostering collaborations with esteemed institutions, bolstering academic and research capabilities. Moreover, the institute remains committed to forging strong ties with industries to ensure students receive industry-oriented exposure and are well-prepared with relevant skills.

Ajay Binay Institute of Technology is affiliated to Biju Patnaik University of Technology (BPUT), Odisha and has been approved by AICTE (All India Council for Technical Education).

At present the institute offers the following courses:

Under Graduate Courses:

- Civil Engineering
- Computer Science & Engineering
- Electrical & Computer Engineering
- Electrical Engineering
- Electronics and Telecommunication Engineering
- Mechanical Engineering

Post graduate Courses:

- MBA (General Management)
- Masters in Computer Application
- M.Tech in Computer Science & Engineering

Institute Vision

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

Institute Mission

- To enable efficiency and prosperity in the society through application of technical knowledge and in collaboration with industry and other institutions.
- Ensure an effective teaching on contemporary topics and a rational examination system.
- Support and create centers of excellence for exploratory technical and behavioral projects that would promote originality and uniqueness.
- Establish partnership with local industries for collaborating, understanding and addressing real life technical challenges.

Award, Achievements & Recognitions:-

The academic year 2023-24 has been a significant milestone in the journey of Ajay Binay Institute of Technology (ABIT) as it continues to strive for academic excellence and institutional growth. Several key achievements during this period highlight the institute's commitment to quality education, sustainability, and industry relevance.

1. NAAC Accreditation in the 2nd Cycle

ABIT achieved accreditation by the National Assessment and Accreditation Council (NAAC) in its 2nd cycle, reaffirming the institute's commitment to providing high-quality education. This recognition underscores ABIT's dedication to continuous improvement in academic standards, infrastructure, and student outcomes.

2. Participation in NIRF Ranking

In an effort to benchmark its educational offerings and institutional performance against national standards, ABIT participated in the National Institutional Ranking Framework (NIRF). This participation marks a significant step toward transparency and reflects the institute's desire to enhance its standing in the national education landscape.

3. Recognition under Section 2(f) of the UGC Act, 1956

ABIT was recognized under section 2(f) of the UGC Act, 1956, by the University Grants Commission (UGC). This status formalizes the institute's standing as an entity eligible for UGC support, enhancing its ability to receive grants and foster research and development.

4. Odisha State Energy Conservation Awards 2023

ABIT's unwavering commitment to sustainability and energy efficiency was acknowledged with the prestigious Odisha State Energy Conservation Awards 2023. This recognition highlights the institute's proactive role in promoting energy conservation practices, setting a benchmark for other institutions in the region.

These achievements reflect ABIT's ongoing efforts to build a robust academic environment that is recognized nationally while ensuring its contributions to sustainable development and societal well-being.

Journal Paper Publication (2023-24)

- 1. Dr. Leena Samantaray of the Electronics and Telecommunication Department published a paper titled "An intelligent heart disease prediction system in hybrid deep dense Aquila network" in Biomedical Signal Processing and Control in July 2023.
- 2. Dr. Leena Samantaray of the Electronics and Telecommunication Department published a paper titled "SMOTE-based adaptive coat Kepler optimized hybrid deep network for predicting the survival of heart failure" in Multimedia Tools and Applications in January 2024.
- 3. Dr. Leena Samantaray of the Electronics and Telecommunication Department published a paper titled "D-t-SNE: Predicting heart disease based on hyper-parameter tuned MLP" in Biomedical Signal Processing and Control in September 2023.
- 4. Dr. Leena Samantaray of the Electronics and Telecommunication Department published a paper titled "A novel adaptive class weight adjustment-based multi-class segmentation error minimization technique for COVID-19 X-ray images" in International Journal of Imaging Systems and Technology in June 2023.
- 5. Dr. Leena Samantaray of the Electronics and Telecommunication Department published a paper titled "A Novel Segmentation Error Minimization-Based Method for Multilevel Optimal Threshold Selection Using Opposition Equilibrium Optimizer" in International Journal of Image and Graphics in June 2023.
- 6. Dr. Leena Samantaray of the Electronics and Telecommunication Department published a paper titled "Optimized Intrusion Detection System in Fog Computing Environment using Automatic Termination-based Whale Optimization with ELM" in International Journal of Computer Network and Information Security in April 2024.
- 7. Dr. Manoj Kumar Praharaj of the Physics Department published a paper titled "Exploring ultrasonic wave transmission in liquids and liquid mixtures: A comprehensive overview" in the Journal of Molecular Liquids in April 2024.
- 8. Dr. Shubhalaxmi Mohapatra of the Electronics and Telecommunication Department published a paper titled "Dual-band Orthogonal Polarized 2-port MIMO Antenna for Cognitive Radio Applications" in International Journal of Antennas and Propagation in January 2024.
- 9. Debakanta Behera of the Electronics and Telecommunication Department published a paper titled "Smart Speed Control for EVs" in Indian Journal of Technical Research in 2023.
- 10. Dr. Rajesh Kumar Sahoo of the Computer Science and Engineering Department published a paper titled "Software Development: A Study on Testing and Governance" in Journal of Scientific Computing in 2023.

- 11. Dr. Rajesh Kumar Sahoo of the Computer Science and Engineering Department published a paper titled "Role of Standard and Governance in Determining Software Quality" in Journal of Engineering, Computing & Architecture in 2023.
- 12. Prof. Ashok Kumar Mohapatra of the Electrical and Electronics Engineering Department published a paper titled "Design and modelling of an AI-governed type-2 fuzzy control strategy AGC of a multi-source power grid in constraint to optimal dispatch" in e-Prime Advances in Electrical Engineering, Electronics, and Energy in February 2024.
- 13. Prof. Ashok Kumar Mohapatra of the Electrical and Electronics Engineering Department published a paper titled "Modeling of flexible AC transmission system devices and fuzzy controller for automatic generation control of electric vehicle-injected power grids" in e-Prime Advances in Electrical Engineering, Electronics, and Energy in February 2024.
- 14. Dr. Durgamadhab Swain of the Electrical and Electronics Engineering Department published a paper titled "LSTM-GA Enhanced Power Quality Improvement in STATCOM Integrated SPV Microgrid" in Tuijin Jishu/Journal of Propulsion Technology in February 2024.
- 15. Dr. Durgamadhab Swain of the Electrical and Electronics Engineering Department published a paper titled "P2P Coordinated Control between SPV and STATCOM in a Microgrid for Power Quality Compensation" in Sustainability, MDPI in July 2023.
- 16. Dr. Debayani Mishra of the Electrical and Electronics Engineering Department published a paper titled "A metaheuristic algorithm for governing virtual inertia of an isolated microgrid incorporating electric vehicles" in The Journal of Engineering, Wiley in May 2024.
- 17. Dr. Debayani Mishra of the Electrical and Electronics Engineering Department published a paper titled "Modified differential evolution algorithm for governing virtual inertia of an isolated microgrid integrating electric vehicles" in International Transactions on Electrical Energy Systems in September 2023.
- 18. Dr. Debayani Mishra of the Electrical and Electronics Engineering Department published a paper titled "Frequency Management of Interconnected Hybrid Renewable Energy System Using Modified Differential Evolution Algorithm" in International Journal of Renewable Energy Research in June 2023.
- 19. Prof. Durgamadhab Swain of the Electrical and Electronics Engineering Department published a paper titled "P2P Coordinated Control between SPV and STATCOM in a Microgrid for Power Quality Compensation" in Sustainability, MDPI in July 2023.
- 20. Prof. Durgamadhab Swain of the Electrical and Electronics Engineering Department published a paper titled "A Key to Sustainable Development-Solar Powered Water Cooling System" in Journal of Engineering Innovation and Research in March 2023.

- 21. Sumit Kumar Mallick of the MBA Department published a paper titled "Innovations in Use of E-platform in the Development of Tourism Sector in India with Respect to Odisha" in PARIPEX Indian Journal of Research in June 2023.
- 22. Sayed Izharul Hasnain of the MBA Department published a paper titled "Stock Broking Industry with Special Reference to Algo Trading and Mobile Trading" in Asian Journal of Management & Commerce in September 2023.
- 23. Krishna Kavita Acharya of the MBA Department published a paper titled "Role of Fintech in the Growth of Indian Stock Broking Industry with Special Reference to Algo Trading and Mobile Trading" in Asian Journal of Management & Commerce in September 2023.
- 24. Sanjukta Mohanty of the MBA Department published a paper titled "Role of Fintech in the Growth of Indian Stock Broking Industry with Special Reference to Algo Trading and Mobile Trading" in Asian Journal of Management & Commerce in September 2023.
- 25. Sayed Izharul Hasnain of the MBA Department published a paper titled "An Empirical Analysis on Adoption of Mobile Commerce in Odisha: With Special Reference to the Government Apps" in World Journal of Management and Economics in 2023.
- 26. Sumit Kumar Mallick of the MBA Department published a paper titled "Innovations in Use of E-platform in the Development of Tourism Sector in India with Respect to Odisha" in PARIPEX Indian Journal of Research in June 2023.
- 27. Joy Singha Mishra of the MBA Department published a paper titled "Innovations in Use of E-platform in the Development of Tourism Sector in India with Respect to Odisha" in PARIPEX Indian Journal of Research in June 2023.
- 28. Bibekananda Mohanty of the MBA Department published a paper titled "An Empirical Study in India Examined How Patients' Attitudes Affected Their Satisfaction and Likelihood of Switching to a Different Generic Brand" in European Economics Letters in July 2023.
- 29. Sanjukta Mohanty of the MBA Department published a paper titled "Non-Performing Assets in Public Sector Banks, Private Sector Banks, and Foreign Banks in India: A Comparative Study" in European Economics Letters in September 2023.

Conference Paper (2023-24)

- 1. Sareeta Mohanty of the Computer Science and Engineering Department published a paper titled "Fracture detection from X-ray images using different Machine Learning Techniques" at the International Conference on Circuits, Power, and Intelligent Systems (CCPIS) in October 2023.
- 2. Debakanta Behera of the Electronics and Telecommunication Department published a paper titled "A Frequency and Pattern Reconfigurable Planar Antenna for IoT Applications" at the International Conference on Communications, Circuits, and Systems (IC3S) in July 2023.
- 3. Evita Bhowmik of the Electronics and Communication Engineering Department published a paper titled "An Intelligent prediction framework towards Internet of Healthcare Things application" at the International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIHI) in April 2024.
- 4. Ashok Kumar Mohapatra of the Computer Science and Engineering Department published a paper titled "Importance of storage devices in frequency stability improvement of an AC Microgrid" at the International Conference on Advances in Power, Signal, and Information Technology in March 2024.
- 5. Prof. Durgamadhab Swain of the Electrical Engineering Department published a paper titled "Asymmetrical Fault Analysis Using P2P Coordinated Control System for DFIG-STATCOM" at the International Conference on Circuits, Power, and Intelligent Systems (CCPIS) in September 2023.
- 6. Prof. Durgamadhab Swain of the Electrical Engineering Department published a paper titled "Support Vector Regression Framework for Reactive Power Prediction based on Real Power Demand" at the International Conference on Trends in Electrical, Electronics, and Computer Engineering (TEECCON) in August 2023.
- 7. Dr. Krishna Kavitha Acharya of the MBA Department presented a paper titled "Navigating Challenges and seizing Opportunities: Local Initiatives and bottom-up development in local Transport with special reference to Mo Bus of Odisha" at the Two-day National Seminar on "Empowering Marginalized Communities for Inclusive Economic Growth: Strategies, Challenges, and Opportunities" held on 19th and 20th April 2024, at GM University, Sambalpur, Odisha.
- 8. Sayed Izharul Hasnain of the MBA Department presented a paper titled "Navigating Challenges and seizing Opportunities: Local Initiatives and bottom-up development in local Transport with special reference to Mo Bus of Odisha" at the Two-day National Seminar on "Empowering Marginalized Communities for Inclusive Economic Growth: Strategies, Challenges, and Opportunities" held on 19th and 20th April 2024, at GM University, Sambalpur, Odisha.

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- 10. Dr. Shree Kanungo of the MBA Department presented a paper titled "ARIMA-based predictive Modelling for Turmeric Production in India" at the Two-day National Seminar on "Data Driven Predictive Analytics & Modelling" (DDPAM-2024) held on 19th and 20th March 2024, at Sambalpur University, Burla, Odisha.
- 11. Sanjukta Mohanty of the MBA Department presented a paper titled "Sustainable Urban Transit for Odisha: A Comprehensive Improvement Plan of Mo Bus" at the International Conference on "Marketing Innovation & Analytics, 2023" held from 15th to 16th December 2023, at International School Business & Media (ISB&M), Pune.
- 12. Sanjukta Mohanty of the MBA Department participated in the National Seminar on "Emerging Trends and Challenges in Management Practices: A Global Perspective" held on 29th August 2023, at United School of Business Management, Bhubaneswar.
- 13. Sanjukta Mohanty of the MBA Department presented a paper titled "Non-Performing Assets Management: A Comparative Study of Debt Recovery Channels of Indian Banks" at the National Seminar on "Prioritising Welfare in a Market-Driven Indian Economy" held on 31st March 2023, at KIIT Deemed to be University, Bhubaneswar.
- 14. Sanjukta Mohanty of the MBA Department presented a paper titled "Role of Fintech in the growth of Indian Stock broking Industry with special reference to Algo Trading and Mobile Trading" at the National Seminar on "Contemporary Issues in Commerce & Management" held on 17th September 2023, at Ravenshaw University.
- 15. Joysingha Mishra of the MBA Department presented a paper titled "A study to focus the curiosity that directly configures the transformation memorizing process in consumer behaviour" at the International Conference on Artificial Intelligence: Theory and Applications (ICFAI) held on 11th and 12th August 2023, at ICFAI Business School, Bangalore.
- 16. Sumit Kumar Mallick of the MBA Department presented a paper titled "A study to focus the curiosity that directly configures the transformation memorizing process in consumer behaviour" at the International Conference on Artificial Intelligence: Theory and Applications (ICFAI) held on 11th and 12th August 2023, at ICFAI Business School, Bangalore.
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Book and Chapter Publication (2023-24)

- 1. Chinmayee Rout of the Computer Science and Engineering Department published a book titled Automata Theory through RK Publication in 2023.
- 2. Dr. Chinmaya Ranjan Pattnaik of the Computer Science and Engineering Department published a book chapter titled Drone Technology: Future Trends and Practical Applications with Wiley (Scrivener Publishing) in 2023.

PATENT Publication (2023-24)

- 1. Dr. Manoj Kumar Praharaj of the Physics Department published a patent titled AI and ML based Early detection of Neurodegenerative Motor Disorder (Parkinson disease) using neuroimaging, brain scanning by applying efficient image processing technique and Machine learning algorithm as an India Patent on 8th September 2023.
- 2. Dr. Manoj Kumar Praharaj of the Physics Department published a patent titled Novel Organic Nanomaterials for Ultra-Fast and Ultra-Sensitive Sensing Applications as an India Patent on 11th October 2023.
- 3. Dr. Manoj Kumar Praharaj of the Physics Department published a patent titled Hybrid Semiconducting Nanomaterials for Improved Solar Harvesting Efficiency in Photovoltaic Cells as an India Patent on 10th November 2023.
- 4. Dr. Manoj Kumar Praharaj of the Physics Department published a patent titled Enhanced Energy Density Lithium Ion Batteries using Nanostructured Electrode Materials as an India Patent on 19th January 2024.

- 5. Dr. Manoj Kumar Praharaj of the Physics Department published an Indian Design Patent titled IOT Enabled PortableUltrasonicator with a journal date of 15th December 2023.
- 6. Chinmayee Rout of the Computer Science and Engineering Department published a patent titled Stress and Anxiety Detection Band as a UK Design Patent in 2024.
- 7. Chinmayee Rout of the Computer Science and Engineering Department published a patent titled Machine Learning and Image Processing based approaches for Lung Tumor Classification and Prediction as an India Patent in 2023.

Sports and Cultural Activities Report (2023-24)

The academic year 2023-24 witnessed a vibrant participation in various sports and cultural activities, fostering a spirit of teamwork, competition, and creativity among the students. A series of state-level events were organized, encouraging students to showcase their talents in a diverse range of activities. Below is an overview of the key events:

1. Rangoli Competition (07.11.2024):

The year kicked off with a colorful Rangoli Competition, where 27 participants displayed their creativity through intricate and vibrant rangoli designs. The competition was held at the state level, bringing out the artistic flair of the students.

2. Arm Wrestling Competition (14.11.2023):

With 30 participants, this event tested the physical strength and endurance of the students. The Arm Wrestling Competition was a highly anticipated event that saw an exciting display of determination and sportsmanship.

3. Annual Volleyball Tournament (16.11.2023 - 20.11.2023):

A highlight of the sporting calendar, the Annual Volleyball Tournament attracted 72 participants. Teams competed with great energy and enthusiasm, promoting teamwork and strategic thinking.

4. Annual Badminton Tournament (28.11.2023 - 02.12.2024):

This year's Annual Badminton Tournament saw the highest level of participation, with 167 students competing in singles and doubles categories. The event showcased exceptional athletic skills and provided a platform for emerging talent in the sport.

5. Photography Competition (04.12.2023 - 05.12.2023):

The Photography Competition allowed 31 students to capture the world through their lenses. Participants creatively documented their surroundings, bringing out their unique perspectives and talent in visual storytelling.

6. Annual Cricket Tournament (03.02.2024 - 07.02.2024):

Cricket, being a favorite sport among the students, saw 92 participants take part in the Annual Cricket Tournament. Teams demonstrated excellent sportsmanship, and the event was filled with thrilling matches and outstanding performances.

7. IGNITRON-2024 (07.02.2024 - 09.02.2024):

The three-day event, IGNITRON-2024, brought together students from various backgrounds to participate in innovative and creative challenges. This event focused on technical and cultural activities, with wide participation and enthusiasm from the student body.

8. Chess Competition (27.02.2024):

The Chess Competition tested the strategic minds of 28 participants. The event saw intense matches, where students showcased their critical thinking and tactical skills, making it a highly intellectual affair.

9. Annual Kabadi Tournament (28.02.2024):

Concluding the year was the Annual Kabaddi Tournament, where 79 participants displayed their strength, agility, and teamwork. The event witnessed some thrilling moments and competitive matches, highlighting the growing interest in traditional sports.

Placement (2023-24)

For the academic year 2023-24, the placement drive achieved remarkable success, with a total of 279 students securing placements in various renowned companies across different sectors. The students demonstrated exceptional skill sets and knowledge, which attracted top recruiters from industries such as IT, manufacturing, consulting, finance, and more.

This year, the placement cell worked diligently to foster industry connections, enhance student employability through pre-placement training, and ensure a seamless recruitment process. The results of these efforts are reflected in the impressive number of students placed. The companies that participated in the recruitment process offered a wide range of job roles, catering to both technical and managerial disciplines.

The institution remains committed to supporting students in their career pursuits, ensuring that future placement drives continue to meet and exceed expectations.

News & Events

- 1. Poster Competition on "7R-New Choice of Green Life" (15.12.2023)

 The competition aimed to promote environmental consciousness through creative visions for sustainable living.
- 2. Odisha State Energy Conservation Awards (15.12.2023)
 ABIT was recognized for its dedication to sustainability and energy efficiency at the prestigious awards ceremony.
- 3. Workshop on Workplace Etiquette and Soft Skills for Faculty (30.11.2023) A workshop aimed at enhancing workplace professionalism and fostering soft skills among faculty members.
- 4. Children's Day Celebration (20.11.2023)
 ABIT organized a celebration featuring art, dance, and games, showcasing the creativity of young talents.
- 5. Annual Volleyball Tournament (15-20.11.2023)
 ABIT hosted an exciting inter-college volleyball tournament to promote teamwork and sportsmanship among students.
- Industrial Visit to Lingaraj Biscuits Pvt. Ltd (MBA Department) (18.11.2023)
 MBA students visited the facility to learn about management practices in the food manufacturing industry.
- 7. Industrial Visit to Trupti Automotives (Mechanical Engineering) (08.11.2023) Students gained insights into the automotive industry with a visit to Trupti Automotives, a TATA Motors dealership.
- 8. National Conference on "Latest Trends in Mechanical Engineering" (01-02.12.2023) The conference covered topics such as automation, robotics, rapid prototyping, and sustainable manufacturing solutions.
- 9. Shram Daan Diwas Observation (01.10.2023)
 ABIT held a campus-wide clean-up drive as part of a Swachh Bharat initiative involving students and faculty.
- Field Visit to OPTCL Grid Substation (30.09.2023)
 Electrical Engineering students visited the 220/132/33KV Grid Substation in Bidanasi for practical learning.
- 11. Visit to Sampatrai Rotary Senior Citizen's Home (17.10.2023)

 Volunteers from ABIT's Social Activities Cell visited a senior citizens' home, providing companionship and support.

12. Odisha Startup Yatra at ABIT (16.09.2023)

ABIT students enthusiastically participated in a session to promote entrepreneurship, sharing their innovative startup ideas.

13. Graduation Day Ceremony for the Class of 2023 (15.09.2023)

ABIT celebrated the achievements of its graduates with a special ceremony marking their transition into their professional journeys.

14. Participation in Startup and IPR Conclave (11-16.09.2023)

ABIT students and faculty took part in the Startup and IPR Conclave organized by CSIR-IMMT, Bhubaneswar.

15. Orientation Program for UG Students (22.09.2023)

Newly admitted B.Tech students were welcomed with an orientation program introducing them to the academic environment.

16. Science Quiz at Saraswati Shishu Vidya Mandir (16.09.2023)

ABIT organized a science quiz to celebrate Engineers' Day, with 200 students from Saraswati Shishu Vidya Mandir participating.

17. Participation in National Welding Meet (01-02.09.2023)

ABIT students and faculty showcased their passion for welding and gained valuable skills at the National Welding Meet 2023.

18. Felicitation of Alumni on Chandrayaan-3 Success (23.08.2023)

ABIT celebrated its alumni's contributions to ISRO's Chandrayaan-3 mission, recognizing their extraordinary achievements.

19. Workshop on MATLAB and Power World Simulator (17-21.01.2023)

A 5-day workshop on MATLAB and Power World Simulator was conducted for third-year students to enhance technical skills.

20. Relay Logic Control (RLC) Workshop (25-26.05.2023)

The Electrical Engineering Department hosted a workshop on Relay Logic Control, offering hands-on training in CAD and FLUID SIM.

21. Webinar on Wealth Creation and Career Opportunities (15.07.2023)

The MBA Department organized a webinar discussing opportunities in the securities market, led by an industry expert.

22. Eye Check-up Camp (22.06.2023)

ABIT, in collaboration with Rotary Club, organized a free eye check-up camp for employees and supporting staff.

23. International Yoga Day Celebration (21.06.2023)

ABIT marked International Yoga Day with a rejuvenating session, promoting health and holistic development.

24. AutoCAD, Coding, and Circuit Design Competition (26.03.2023)

The Event & Competition Cell organized a competition for students to showcase their skills in AutoCAD, coding, and circuit design.

25. IGNITRON 2K23 – Technical and Cultural Fest (25.01.2023)

ABIT hosted IGNITRON 2K23, where students presented technical innovations and cultural performances.

26. Scratch Programming Training at Saraswati Shishu Vidya Mandir (28.02.2023)

ABIT's Social Activities Cell conducted a Scratch programming training for school students to encourage coding skills as part of National Science Day.

27. Technical Quiz Competition (19-20.01.2023)

A technical quiz was organized by ABIT's Event and Competition Cell, engaging students in a challenging contest.

28. Participation in Odisha Startup Mela (15.01.2023)

ABIT students showcased innovative sculptures made from waste materials at the Odisha Startup Mela, impressing investors and jury members.

29. Hybrid-mode GATE Preparatory Classes (25.01.2023)

ABIT started GATE 2024 preparatory classes for third-year students, focusing on competitive exams like GATE, PSUs, IES, ISRO, and DRDO.

30. Scratch Coding Competition (07.01.2023)

ABIT's Department of Computer Science Engineering hosted a Scratch coding competition to encourage creativity and programming skills among students.