ABES INSTITUTE OF TECHNOLOGY
DEPARTMENT OF INFORMATION TECHNOLOGY

ABESIT
COLLEGE OF ENGINEERING

Estd: 2007

Academic Session
2023-2024

NBA Accredited Program- B.Tech (IT) Upto 30th June 2025

E - N e w s l e t t e r

An official Bi-Annual e-Newsletter for internal circulation

July 2024   Volume (XIII)

The IT Department offers Bachelor of Technology programme in Information Technology. The faculty members of department are well qualified and effective.

ADVISORY BOARD

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(Assistant Professor, IT)

Student Co-ordinators
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NBA
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VISION

- To become a front runner in transforming the individuals into competent IT professionals, to meet the needs of evolving technology and serve the humanity.

MISSION

- To impart quality education with innovative teaching learning process to develop culture of research and innovation.
- Collaborate and interact with industry professionals, academicians to provide suitable forums to exhibit the creative talent of students.
- Provide leadership and planning for effective and strategic use of information technology.

Workshop on "Empowering Data Analysis and Visualization"

Ghaziabad, Uttar Pradesh, India
CAMPUS, ABES INSTITUTE OF TECHNOLOGY, Chipiyana Buzurg,
Uttar Pradesh 201009, India
Lat 28.633843°
Long 77.447055°
05/12/23 10:48 AM GMT +05:30

Department of Information Technology and CSE (Data Science) organized a workshop on "Empowering Data Analysis and Visualization" on 05/12/2023. Students from 3rd year IT and 3rd year CSE-(Data Science) attended the workshop. The speaker of the session was **Mr. Rahul Bandhan**, CEO-Alpha Delving.

The Resource person focused on various Data visualization tools and how they can be used to analyse complex datasets. The expert gave hands-on experience on Tableau focussing on functionality access to Tableau Prep Builder, Tableau Desktop, and Tableau Server or Tableau Cloud. He also motivated the students to work on real life projects so that they can enhance their practical skills.

IT TECHNICAL CLUB ACTIVITIES

SPEAKER SESSION ON WEB DEVELOPMENT

The IT Technical Club at ABESIT hosted an Offline Speaker Session on May 8th, 2024, with Drishti ma'am, an Associate Software Engineer, guiding 2nd-year students through hands-on web development. The event offered practical insights, interactive learning, and side events with swags, making it a valuable experience for all.

Potential skills learnt during the event:

1. Problem-Solving and Critical Thinking
2. Teamwork and Collaboration
3. Technical Skills and Cybersecurity Awareness
4. Time Management and Prioritization
5. Adaptability and Resilience

CYPHER HUNT

IT Technical Club organized another successful event, '**Cypher Hunt**'. The event was attended by 2nd year and 3rd year students.
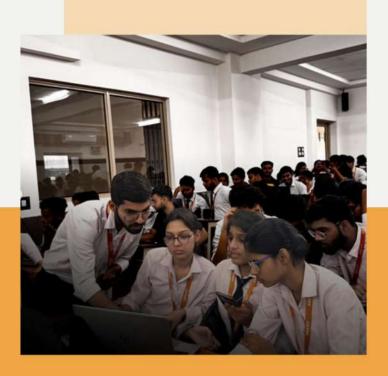
The technical competition brought together brilliant minds from diverse aspiring enthusiasts to Uncover secrets, decode clues, and seize hidden treasures.

Here's a glimpse into the captivating proceedings and outstanding accomplishments.

Potential skills learnt during the event:

1. Problem-Solving and Critical Thinking
2. Teamwork and Collaboration
3. Technical Skills and Cybersecurity Awareness
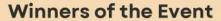4. Time Management and Prioritization
5. Adaptability and Resilience

PAINT N POUR

Discover and enhance your artistic flair at our fun-filled event!!

The Zen Club at ABESIT hosted "Paint N Pour," a vibrant event held on April 30th, 2024, at the Graphics Lab, ABESIT, Ghaziabad. The event was designed to help participants discover and enhance their artistic flair in a fun-filled atmosphere of painting and socializing. Attendees explored new painting techniques, mingled with fellow enthusiasts, and enjoyed a relaxed, creative environment. With a "Bring Your Own Articles" option, the event offered a personalized experience, encouraging everyone to unleash their inner artist and make the most of this expressive, colorful gathering.

Winners of the Event
1- Khushboo Chauhan
2 - Kashish Sangal

We congratulate all the winners of the event !!

CODECRASH QUEST

The BitBrain Club of Data Science Department successfully organized an event "CodeCrash Quest" on 6 Nov,2023 . The event witnessed participation of around 43 students from 2nd and 3rd year.

The event comprised of two rounds, first round was MCQ round and second one was error finding round, where students capitalized on the opportunity to put their online assessment skills to the test.

Heartiest congratulations to all participants for displaying remarkable enthusiasm and dedication towards leveraging technology to empower our society and shape a better tomorrow.

FACULTY ACHIEVEMENTS

FACULTY RESEARCH
PAPER PUBLICATION

SESSION (2023-2024)

Faculty Name	Publication Details	Date
Mr. Sumit Kumar	Finite State GUI Testing with Test Case Prioritization Using Z-BES and GK-GRU. Applied Sciences. 2023; 13(19): 10569.https://doi.org/10.3390/app131910569.(SCIE INDEXED)	2023
	An Effective GDP-LSTM and SDQL-Based Finite State Testing of GUI. Appl. Sci. 2024, 14(2), 549; https://doi.org/10.3390/app14020549.(SCIE INDEXED)	2023
	GUI Testing Using Random Event-Based Test Cases. 12th IEEE International Conference on System Modelling & Advancement on Research Trends (SMART-2023) held on December 22-23, 2023,	CCSIT TMU MORADABAD, UP, INDIA.(IEEE Xplore). DOI: 10.1109/SMART59791.2023.10428625.	2023
Ms. Shivani Sharma	Proposed Model for Detection of Pneumonia Using Deep Learning. In: Kumar, A., Mozar, S. (eds) Proceedings of the 6th International Conference on Communications and Cyber Physical Engineering . ICCCE 2024. Lecture Notes in Electrical Engineering, vol 1096. Springer, Singapore. https://doi.org/10.1007/978-981-99-7137-4_56	2024

FACULTY ACHIEVEMENTS

FACULTY RESEARCH
PAPER PUBLICATION

SESSION (2023-2024)

Faculty Name	Publication Details	Date
Ms. Shivani Sharma	Churn Prediction Model Using EDA. In: Kumar, A., Mozar, S. (eds) Proceedings of the 6th International Conference on Communications and Cyber Physical Engineering . ICCCE 2024. Lecture Notes in Electrical Engineering, vol 1096. Springer, Singapore. https://doi.org/10.1007/978-981-99-7137-4_59	2024
	Clean Sustainable Society Using CNN Proceedings of 4th International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications https://doi.org/10.1007/978-981-99-9442-7_39	2024
	Image Analysis for Human Trafficking Prediction. In: Kumar, A., Mozar, S. (eds) Proceedings of the 6th International Conference on Communications and Cyber Physical Engineering . ICCCE 2024. Lecture Notes in Electrical Engineering, vol 1096. Springer, Singapore. https://doi.org/10.1007/978-981-99-7137-4_84	2024
	Sign language detection using computer vision International Conference on Artificial Intelligence, Blockchain, Computing and Security (ICABCS 2023),Gr.Noida,UP,India.https://doi.org/10.1201/9781003393580-117	2023

FACULTY ACHIEVEMENTS

FACULTY RESEARCH
PAPER PUBLICATION

SESSION (2023-2024)

Faculty Name	Publication Details	Date
Ms. Shivani Sharma	Crime Visualization and Forecasting Using Machine Learning. In: Kumar, A., Gunjan, V.K., Hu, YC., Senatore, S. (eds) Proceedings of the 4th International Conference on Data Science, Machine Learning and Applications. ICDSMLA 2022. Lecture Notes in Electrical Engineering, vol 1038.Springer,Singapore.https://doi.org/10.1007/978-981-99-2058-7_28	2023
Ms. Reshu Tyagi	Optimizing Water Management and Conservation Through IoT 2024 2nd International Conference on Disruptive Technologies (ICDT) DOI: 10.1109/ICDT61202.2024.10489231	2024
Dr. Kaushal Kishor	Image Processing Applications in Agriculture With the Help of AI. In M. Khan, R. Khan, P. Praveen, A. Verma, & M. Panda (Eds.), Infrastructure Possibilities and Human-Centered Approaches With Industry 5.0 (pp. 162-181). IGI Global. https://doi.org/10.4018/979-8-3693-0782-3.ch010	2024
	Cloud Computing-Based Smart Agriculture. In A. Sharma, N. Chanderwal, & R. Khan (Eds.), Convergence of Cloud Computing, AI, and Agricultural Science (pp. 120-136). IGI Global. https://doi.org/10.4018/979-8-3693-0200-2.ch006	2023

FACULTY ACHIEVEMENTS

FACULTY RESEARCH
PAPER PUBLICATION

SESSION (2023-2024)

Faculty Name	Publication Details	Date
Dr. Kaushal Kishor	3D Application Development Using Unity Real Time Platform. In: Swaroop, A., Kansal, V., Fortino, G., Hassanien, A.E. (eds) Proceedings of Fourth Doctoral Symposium on Computational Intelligence . DoSCI 2023. Lecture Notes in Networks and Systems, vol 726. Springer, Singapore. https://doi.org/10.1007/978-981-99-3716-5_54	2023
	Real-Time Traffic Signs and Lane Line Detection. In: Swaroop, A., Kansal, V., Fortino, G., Hassanien, A.E. (eds) Proceedings of Fourth Doctoral Symposium on Computational Intelligence . DoSCI 2023. Lecture Notes in Networks and Systems, vol 726. Springer, Singapore. https://doi.org/10.1007/978-981-99-3716-5_71	2023
Mr. Vijendra Rai	Malaria and Pneumonia Disease Prediction Using Deep Learning 2024 2nd International Conference on Disruptive Technologies (ICDT) DOI: 10.1109/ICDT61202.2024.10489408	2024
	Optimizing Big Data Algorithms on Cloud for Automated Disease Diagnosis in Healthcare System 2024 2nd International Conference on Disruptive Technologies (ICDT) DOI: 10.1109/ICDT61202.2024.10489385	2024

FACULTY ACHIEVEMENTS

FACULTY RESEARCH
PAPER PUBLICATION

SESSION (2023-2024)

Faculty Name	Publication Details	Date
Mr. Vijendra Rai	Mitigating the Distributed Denial of Service Attacks in Mobile Networks Using Machine Learning Models," 2023 3rd International Conference on Technological Advancements in Computational Sciences (ICTACS), Tashkent, Uzbekistan, 2023, pp. 738-745, doi: 10.1109/ICTACS59847.2023.10390360	2024

FDP ATTENDED BY FACULTY

SESSION- 2023-24

Name	Topic	Date	Venue	Mode
Dr. Kaushal Kishor	AI for Building speach and vision Application Using python	21 to 25 Aug 2023 (1 Week)	Galgotias college of Engineering Technology	Online
Dr. Sumit Kumar	Generative AI Essentials: A Deep Dive into Theory and Practice	22 to 27 July 2024 (1 Week)	VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY	Online
Ms. Shivani Sharma	Generative AI Essentials: A Deep Dive into Theory and Practice	22 to 27 July 2024 (1 Week)	VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY	Online
Mr. Nagendra Nath Dubey	FDP on "Wireless Networks"	12 to16 Feb 2024 (5 Days)	ABES Institute of Technology, Ghaziabad	Online
Ms. Deepti Singh	Generative AI Essentials: A Deep Dive into Theory and Practice	22 to 27 July 2024 (1 Week)	VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY	Online

FDP ATTENDED BY FACULTY

SESSION- 2023-24

Name	Topic	Date	Venue	Mode
Mr. Vijendra Rai	Wireless Networks	12 to 16 February 2024 (1 Week)	ABES Institute of Technology, Ghaziabad Uttar Pradesh	Online
	Recent Trends in Research in Management, IT, Communication in Cutting Edge Technology	18 to 24 June 2024 (1 Week)	IIMT COLLEGE OF MANAGEMENT GREATER NOIDA	Online
Ms. Reshu Tyagi	Recent Trends of Big Data and Artificial Intelligence in Computer Science and Agriculture Engineering	5 to 12 February 2024 (1 Week)	Sir Chottu Ram Institute of Engineering and Technology Merrut	Online
	Wireless Networks	12 to 16 February 2024 (1 Week)	ABES Institute of Technology, Ghaziabad Uttar Pradesh	Online
	Recent Trends in Research in Management, IT, Communication in Cutting Edge Technology	18 to 24 June 2024 (1 Week)	IIMT COLLEGE OF MANAGEMENT Greater Noida	Online

STUDENTS ACHIEVEMENTS

SMART INDIA HACKATHON 2023

Team No.	Team Name	PS CATEGORY	Student From Department	Year of Study	Branch	Result
1	ARES	Software	Harsh Pal	3rd	CSE-DS	Winner with 1 lac Prize
2	DIGITAL_DRUIDS	Software	Nikita Kumari	2nd	IT	Winner with 1 lac Prize
3	Lakshya	Software	Kumar Kartikeya	2nd	CSE-DS	Finalist
			Smrita Shukla	2nd	IT	
4	Solution@Makers	Software	Kanishka Singhal	2nd	CSE-DS	Finalist

PLACEMENTS

CONGRATULATIONS ON YOUR WELL-DESERVED
SUCCESS!!

S.No	Student Name	Company Name
1	ADARSH PANDEY	Grant Thornton Bharat LLP
2	ADITYA TIWARI	KodNest technologies Pvt. Ltd.
3	AKSHIT GOEL	Infoedge Ltd.
4	ALOK PANDEY	QSpiders
5	ALOK VERMA	Sorties Technologies Pvt.Ltd.
6	AMBRISH SRIVASTAV	Magnum Digital Solutions
7	APARNA JHA	Global Garner
8	ARYASH	Navyug Infosolutions Pvt. Ltd.
9	AVIRAL SHARMA	Capline Services
10	AYUSH KUMAR	Xcelore
11	AYUSH MISHRA	Success Pact Consulting Pvt. Ltd.
12	DEEPAK KUMAR RAI	Exaltica
13	DEEPIKA PANDEY	Aryson Technologies
14	DEVESH TRIPATHI	Sorties Technologies Pvt.Ltd.
15	DISHA BHARDWAJ	Innobit Systems
16	DIVYA CHOUDHARY	Stemrobo Technologies
17	HARSHIT CHILWAL	CRIS
18	HARSHITA RAGHAV	Aryson Technologies
19	JAYANTO BISWAS	R M Group of Eductaion
20	KHUSHI SHARMA	WTI Cabs Rinex Technologies Amazon
21	MANISH KUMAR SHARMA	Silaris Informations Pvt.Ltd.
22	MANYA CHOUDHARY	CSS Founder

PLACEMENTS

CONGRATULATIONS ON YOUR WELL-DESERVED SUCCESS!!

S.No	Student Name	Company Name
23	NAMAN SHARMA	Creative Clay
24	NEHA	Jindal NICS Technology India Rinex Technologies Stemrobo Technologies Sorties Technologies Pvt. Ltd.
25	PRASHANT SRIVASTVA	InternsElite
26	PRIYASH	Gamix Labs
27	RAJEEV KUMAR	Red Stone Consulting
28	SAGAR TYAGI	Red Stone Consulting
29	SAJAL GARG	Motherson Technology Services Limited KodNest Technologies Pvt. Ltd.
30	SAKSHI PAL	Jindal IT Webhut
31	SHEKHAR SINGH	UXDLAB Software Pvt. Ltd.
32	SHREYAL SRIVASTAVA	Amazon PTC(INDIA) Pvt. Ltd.
33	SHUBHAM SINGH	DfreeNovelish
34	SIDDHARTH DHIMAN	Rinex Technologies
35	TUSHAR NIGAM	WebMoril Group Hitech Inkjet Pvt. Ltd. Stemrobo Technologies
36	VIKAS YADAV	Sorties Technologies Pvt. Ltd.

ARTICLE

By- Nikita Kumari
3rd yr IT

THE SPARK OF CREATION: AN EXPLORATION OF GENERATIVE AI

Generative AI, the technology that orchestrates creations from text and code, is no longer confined to science fiction. Imagine AI composing music that rivals Mozart, or crafting poems echoing Shakespeare's depth. These algorithms devour data, becoming not just consumers, but active participants in the symphony of creativity.

But this symphony raises a concerto of questions.

Does AI-generated art diminish human expression, or is it a powerful new instrument? What constitutes "originality" in this AI-driven world? Navigating these ethical considerations is crucial as we move forward.

Beyond the artistic realm, Generative AI composes solutions to complex problems.It designs innovative drugs, personalizes education, and accelerates product development. From the canvas to the laboratory, the possibilities seem endless, pushing the boundaries of human innovation.

However, like any powerful tool, Generative AI has its own discordant notes. Bias in algorithms can lead to unfair representation, while the ability to create deepfakes threatens online trust. Careful consideration of these challenges is necessary, ensuring responsible development and ethical deployment.

As we stand before this evolving symphony, collaboration is key. Artists, scientists, and ethicists must work together, ensuring that Generative AI empowers humanity, not replaces it. The spark of creation ignited by AI might just lead to a brighter, more innovative future for all, where the symphony of human and machine creativity plays in harmony.

ARTICLE

By- Vani Gupta
3rd yr IT

QUANTUM COMPUTING: A REVOLUTIONARY LEAP IN TECHNOLOGY

Quantum computing, a groundbreaking advancement, promises to revolutionize industries with its unparalleled computational capabilities. Unlike classical computers, which process data in binary form (0s and 1s), quantum computers use quantum bits or "qubits" that leverage quantum principles like superposition and entanglement. This enables qubits to exist in multiple states simultaneously, allowing quantum computers to tackle complex problems at speeds unattainable by traditional machines.

The potential applications of quantum computing are vast and varied. In cybersecurity, quantum algorithms have the power to break existing encryption methods, but they also hold the key to developing next-generation, virtually unbreakable encryption techniques. In pharmaceuticals, quantum simulations can expedite drug discovery by accurately modeling intricate molecular interactions. Additionally, quantum computing can enhance optimization in industries like logistics, improve machine learning models, and revolutionize financial modeling.

Tech giants such as IBM, Google, and Microsoft are leading the charge in quantum research, pushing the boundaries of what this technology can achieve. Google's claim of reaching "quantum supremacy," where a quantum computer completed a task faster than the most powerful classical supercomputer, is a landmark moment.

Although scalable quantum computers are still in development, their potential to reshape industries makes them one of the most exciting innovations of the 21st century.