

ABES INSTITUTE OF TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

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

E - Newsletter

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January 2024

Volume (XII)



Estd: 2007

Academic Session

2023-2024(Odd Semester)

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

ADVISORY BOARD

Prof. (Dr.) M.K. Jha

Director, ABESIT

Prof. Sumit Kumar

Head of Department, IT

EDITORIAL BOARD

Faculty Co-ordinator

Ms. Shivani Sharma

(Assistant Professor, IT)

Student Co-ordinators

Sneha Gupta (3rd year CSE-DS)

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.



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DEPARTMENT ACTIVITIES



Workshop on “Empowering Data Analysis and Visualization”



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

DECODE THE PIXELS

IT Technical Club organized another successful event, **'Decode the Pixels'**. The event was attended by 2nd year and 3rd year students. The technical competition brought together brilliant minds from diverse aspiring enthusiasts.

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

5 Potential skills learnt during the event:

1. Time management
2. Critical Thinking
3. Confidence Building
4. Communication Skills
5. Professionalism



ZEN CLUB ACTIVITIES

BOLLYWOOD BONANZA

A Spectacular Celebration of Glamour,
Music and Movie Magic!!

Zen Club of IT Department organised an event "Bollywood Bonanza" on 14th December 2023 that was a resounding success.

Having all the participants there was a delight for us, 14 Students from different years and departments. The students participated and showcased their talent by involving in singing and dancing.

Dive into the rhythm and melody as our talented students stole the spotlight at Bollywood Bonanza!

The stage came alive with electrifying dance performances and soulful musical renditions, showcasing the vibrant spirit of our college community.

Winners of the Event were-

- 1- Ananya Sinha - CSE-DS (3rd Year)
- 2 - Sagar Chaudhary- CSE(3rd Year)

We congratulate all the winners of the event !!



BIT BRAIN CLUB ACTIVITIES

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 shaping a better tomorrow.



FACULTY ACHIEVEMENTS

FACULTY RESEARCH PAPER PUBLICATION

SESSION (2023-2024)

Faculty Name	Publication Details	Date
Dr. Bipin Kumar Rai	Blockchain Based E-Procurement System in Healthcare. Health Serv Outcomes Res Method. https://doi.org/10.1007/s10742-023-00321-2 (ESCI, Scopus Indexed)	2024
	Decentralized Blockchain-Enabled Employee Authentication System. International Journal of Reliable and Quality E-Healthcare (IJRQEH), 12(1), 1-13. http://doi.org/10.4018/IJRQEH.323570 (Scopus Indexed)	2023

FACULTY ACHIEVEMENTS

FACULTY RESEARCH PAPER PUBLICATION

SESSION (2023-2024)

Faculty Name	Publication Details	Date
Dr. Bipin Kumar Rai	IoT Based Humidity and Temperature Control System for Smart Warehouse. Gazi University Journal of Science, https://doi.org/10.35378/gujs.993959 (ESCI, Scopus Indexed)	2023
	Blockchain-Based Traceability of Counterfeited Drugs. International Journal of Reliable and Quality E-Healthcare (IJRQEH), 12(2), 1-12. http://doi.org/10.4018/IJRQEH.318129 (Scopus Indexed)	2023

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

FACULTY ACHIEVEMENTS

FACULTY RESEARCH PAPER PUBLICATION

SESSION (2023-2024)

Faculty Name	Publication Details	Date
Mr. Sumit Kumar	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	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

FACULTY ACHIEVEMENTS

FACULTY RESEARCH PAPER PUBLICATION

SESSION (2023-2024)

Faculty Name	Publication Details	Date
Ms. Shivani Sharma	<p>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</p>	2024
	<p>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</p>	2024

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
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

FACULTY ACHIEVEMENTS

FACULTY RESEARCH PAPER PUBLICATION

SESSION (2023-2024)

Faculty Name	Publication Details	Date
Dr. Kaushal Kishor	<p>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</p>	2023
	<p>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</p>	2023

FACULTY ACHIEVEMENTS

FACULTY RESEARCH PAPER PUBLICATION

SESSION (2023-2024)

Faculty Name	Publication Details	Date
Dr. Kaushal Kishor	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
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	2023

FDP ATTENDED BY FACULTY

SESSION- 2023-24

Name	Duration	Topic	Date	Venue	Mode
Dr. Kaushal Kishor	1 Week	AI for Building speech and vision Application Using python	21 to 25 Aug 2023	Galgotias college of Engineering Technology	Online
Mr. Nagendra Nath Dubey	5 Days	FDP on "Wireless Networks"	12 to 16 Feb 2024	ABES Institute of Technology, Ghaziabad	Online

FDP ATTENDED BY FACULTY

SESSION- 2023-24

Name	Duration	Topic	Date	Venue	Mode
Ms. Reshu Tyagi	1 Week	Wireless Networks	12 to 16 February 2024	ABES Institute of Technology, Ghaziabad Uttar Pradesh	Online
		Recent Trends of Big Data and Artificial Intelligence in Computer Science and Agriculture Engineering	5 to 12 February 2024	Sir Chottu Ram Institute of Engineering and Technology Merrut	Online
Mr. Vijendra Rai	1 Week	Wireless Networks	12 to 16 February 2024	ABES Institute of Technology, Ghaziabad	Online

STUDENTS ACHIEVEMENTS

SMART INDIA HACKATHON 2023



Team No.	Team Name	PS CATEGORY	Team Leader Name	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	Participated
			Smrita Shukla	2nd	IT	
4	Solution@Makers	Software	Kanishka Singhal	2nd	CSE-DS	Participated

PLACEMENTS

CONGRATULATIONS ON YOUR WELL-DESERVED
SUCCESS!!

S.No	Student Name	Company Name
1	ISTEKHAR KHAN	Unbundl
2	SIDDHI SHARMA	Pie-Infocomm
3	ANSHUTA GUPTA	Innobit Systems
4	KANAN SHARMA	Innobit Systems
5	HEMANSHI CHOUDHARY	Wingman Partners
6	SHUBH AGARWAL	Aryson Technologies
7	ADITYA SHARMA	Numetry Technologies
8	SHUBH AGARWAL	Numetry Technologies
9	AMAN SENGAR	WTI Cabs
10	ADNAN ALAM	Swaran Soft Support Solutions Pvt. Ltd.
11	ISHANI SRIVASTAVA	Samtech Innovations Pvt Ltd.
12	EKANSH KUMAR	Cyberpoint Pvt Ltd.
13	UTSAV KUMAR GOYAL	Codestore Technologies Pvt. Ltd.
14	ADNAN ALAM	Certybox Private Ltd
15	HIMANSHU RAI	Certybox Private Ltd
16	TANYA SRIVASTAVA	Certybox Private Ltd
17	KSHITIZ AGGARWAL	Edu-versity
18	ARCHITA SHUKLA	Edu-versity
19	DISHA BHARDWAJ	Innobit Systems
20	AYUSH KUMAR	Xcelore
21	DEEPIKA PANDEY	Aryson Technologies
22	HARSHITA RAGHAV	Aryson Technologies
23	KHUSHI SHARMA	WTI Cabs

ARTICLE

By- Mansi Sharma
2nd yr CSE(DS)

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- Muskan
2nd yr CSE(DS)

GREENING THE MACHINE: A LOOK AT SUSTAINABLE TECHNOLOGY

Technology, once synonymous with environmental harm, is composing a new tune - a melody of sustainability. This isn't about silencing the music, but harmonizing it with nature's rhythm.

Imagine cities bathed in sunlight, homes pulsating with wind-powered life, and vehicles gliding on electric currents. These aren't distant dreams, but realities orchestrated by solar panels, wind turbines, and smart grids conducting energy efficiently.

But the green orchestra extends beyond energy. Precision agriculture, with its data-driven baton, optimizes resource use. Biodegradable materials replace plastic in a harmonious circular dance.

Smart cities, guided by intelligent sensors, minimize waste.

Challenges remain, like the high cost of some instruments, the need to integrate them seamlessly, and even the environmental footprint of some green technologies themselves.

Beyond energy, sustainable tech extends its green fingers. Precision agriculture uses data to optimize resources, biodegradable materials replace plastic, and smart cities reduce waste.

Yet, the melody grows stronger. Governments invest, businesses join the chorus, and individuals hum along, adopting sustainable practices.

Sustainable technology is no longer optional; it's the score for a healthy planet and a thriving future. The Earth's green orchestra, once a faint whisper, is now crescendoing, offering a symphony of solutions for a world in harmony. Let us join the performance, conducting a brighter future for generations to come.