



AMITY
UNIVERSITY
— PATNA —

“AmiTechNova”

Fortnightly Tech Digest
Amity Institute of Information Technology



July - September 2026



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About Amity University, Patna

Amity University Patna is a part of 25-years old, leading education group of India, Amity Education Group, set up with a vision to contribute to nation-building through education, where currently more than 2,00,000 students are pursuing 300 programmes across campuses in India and abroad. Amity University Patna is yet another landmark project of Amity Education Group to revolutionize the Indian higher education sector by providing globally benchmarked, research and employment-oriented education.

Since its inception, AUP has progressing with each passing year in its mission to provide education at all levels, disciplines of modern times and in the futuristic and emerging frontier areas of knowledge, learning and research; to develop the overall personality of students by making them not only excellent professionals but also a good individual with understanding and regard for human values (Sanskaras). To have pride in their heritage and culture with the sense of right and wrong, yearning for perfection and imbibe attributes for courage of conviction and action. The Campus is equipped with 100 Mbps Wi-Fi at every corner, computer labs, library with digital access, CCTV camera coverage all around, Audio-Visual facility, AC class rooms, high-end conference hall, printing facilities, Servers Language Lab and spacious Seminar hall. AUP also has awe-inspiring libraries and an extensive digital library, conference rooms, moot court and an excellent media lab with high tech-related multimedia facilities. The campus is brimming with exuberance and enthusiasm while providing the students the necessary atmosphere and facilities for the promotion of innovations in education, leading to restructuring of courses, new methods of teaching, training, and learning including online and blended.

About Amity Institute of Information Technology

Amity Institute of Information Technology, Amity University Patna, Bihar is one of the most prestigious and reputed institutes in Patna, Bihar, India and preferred by many of the local as well as the students from all over the country. In fact, considering its growth statistics, it is one of the fastest growing institutes in Patna, Bihar.

VISION

To be a distinguished center of excellence in creating a technological workforce with innovation, research, entrepreneurial skills in a rapidly evolving digital landscape, contributing to sustainable society

MISSION

To foster innovation and professional growth through cutting-edge research and ethical use of technology, developing intellectual aspiration and techno-managerial skills to prepare globally recognizable technocrats and entrepreneurs contributing the sustainable society

01 DEPARTMENTAL ACTIVITIES:

✓ Faculty Development Programme (FDP) on Intelligent Autonomous Systems: Empowering Innovation and Research

The **Amity Institute of Information Technology (AIIT)**, **Amity University Patna**, successfully organized a five-day online Faculty Development Programme (FDP) on **“Intelligent Autonomous Systems: Robotics, AI/ML, Computer Vision, and Research Practices”** from **6th to 10th July 2026**. The programme aimed to bridge the gap between emerging technological advancements and contemporary academic research while promoting innovation and interdisciplinary learning.

The FDP brought together faculty members, researchers, scholars, and industry professionals to explore the rapidly evolving domains of **Robotics, Artificial Intelligence, Machine Learning, Computer Vision, UAVs, Autonomous Systems, Cloud Computing, and Agentic AI**.

Across **ten expert-led sessions**, distinguished speakers from reputed institutions in India and Japan shared valuable insights into robotics and UAV architecture, AI-enabled autonomous navigation, path planning, Reinforcement Learning, Computer Vision, SLAM, image processing, and real-time video analytics. The programme also highlighted essential aspects of **research paper writing, publication ethics, plagiarism prevention, journal selection, research funding, and proposal development**.

Interactive discussions and engaging question-and-answer sessions provided participants with opportunities to connect theoretical concepts with practical applications and emerging research possibilities. The programme encouraged participants to explore new avenues for **interdisciplinary research, collaboration, and technological innovation**.

The FDP concluded successfully with positive feedback from participants. It reaffirmed AIIT's commitment to **academic excellence, continuous professional development, technological advancement, and research-driven education**, while equipping faculty and researchers with knowledge and perspectives essential for navigating the rapidly evolving landscape of intelligent autonomous technologies.



✓ Celebrating Youth, Creativity and Leadership at AIIT

The **Amity Institute of Information Technology (AIIT)**, **Amity University Patna**, celebrated **International Youth Day 2026** on **12 August 2026** with great enthusiasm, creativity, and active participation from students and faculty members.

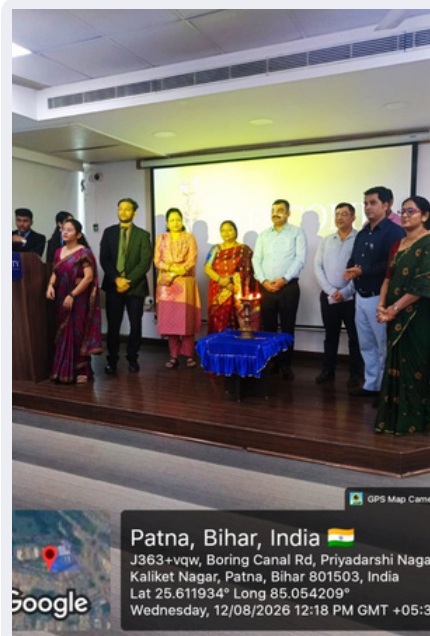
The celebration brought together a vibrant blend of creativity, recognition, and youthful energy. Highlights of the event included the **Youth Day Video Challenge**, a **Badge Ceremony** honouring members of **AMITECHNOCRATS**, **TECHPRENEURS**, and the **Social Media Team**, followed by a **Prize Distribution Ceremony** celebrating the achievements and contributions of the students.

Adding a meaningful dimension to the celebration, students creatively decorated the notice board on the theme “**Moral Science Education for GEN Z.**” Through thoughtful messages and engaging visual presentations, they highlighted the importance of **values, empathy, responsibility, ethical conduct, and the mindful use of technology** in today’s digitally connected world.

The activities provided students with a platform to express their creativity, demonstrate leadership, and reflect on the values that can shape a responsible and progressive generation.



The celebration was a memorable occasion that beautifully captured the spirit of youth at AIIT—**creative, responsible, innovative, and future-ready**. It reaffirmed the institute's commitment to nurturing not only technological skills but also the values, confidence, and leadership qualities essential for building a better society.



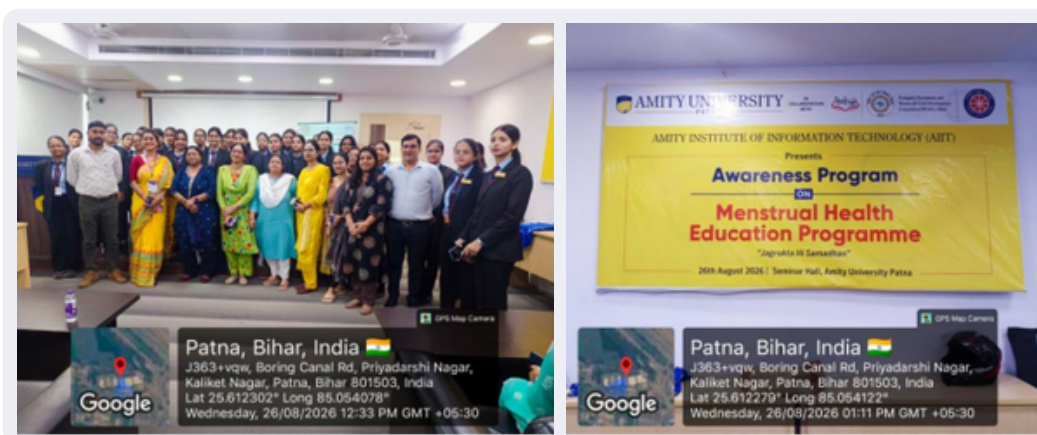
✓ Guest Lecture on Menstrual Health Education

Amity Institute of Information Technology (AIIT), Amity University Patna, organized a **Guest Lecture on Menstrual Health Education on 26 August 2026**. The session, conducted under the theme “**Jagrukta Hi Samadhan – Menstrual Cup Awareness and Menstrual Health Education**”, aimed to create awareness among students about menstrual health, hygiene, and the proper use of menstrual cups.

Mrs. Richa Rajput from the Pothipatri Foundation served as the resource person for the session. Students from **MCA, B.Sc. IT, and BCA** actively participated in the lecture. The interactive session provided students with valuable information about menstrual health and menstrual cup usage while addressing common questions and misconceptions.

The lecture encouraged students to engage in open discussions, ask questions, and clarify their doubts regarding menstrual health and hygiene. As part of the initiative, **menstrual cups were also distributed among the participating students**, providing them with an opportunity to learn about a sustainable menstrual hygiene option.

The session was informative and interactive, helping students develop greater awareness and understanding of menstrual health. The programme reflected AIIT's commitment to promoting **health awareness, responsible choices, and the overall well-being of its students**.



✓ **From IT Industry to Academia: A Journey of Transformation**

The Amity Institute of Information Technology (AIIT), Amity University Patna, organised an **inspiring Alumni Interaction – Guest Lecture on 7 September 2026** for the students of the **Master of Computer Applications (MCA) programme**.

The session, titled **“From IT Industry to Academia: A Journey of Transformation,”** featured **Mrs. Vartika, an alumna of the MCA programme (2020–2022)**, as the guest speaker. Drawing from her own professional journey, Mrs. Vartika shared valuable insights into her transition from the IT industry to academia and the experiences that shaped her career.

The interaction offered students a practical understanding of the opportunities and challenges associated with different career pathways. The speaker highlighted the importance of continuously developing technical and professional skills, gaining meaningful industry experience, and making informed career choices. Her journey demonstrated how academic knowledge and professional exposure can complement each other in building a fulfilling and sustainable career.

The session was highly interactive, with students actively participating in discussions and asking questions about career growth, professional development, industry expectations, and opportunities in academia. The real-world experiences shared by the alumna helped students connect their classroom learning with the demands and possibilities of the professional world.

The interaction also reinforced the importance of **alumni engagement in student development**. By learning directly from an alumnus who has navigated significant career transitions, students gained a broader perspective on the diverse opportunities available after completing their MCA programme.

AIIT extends its sincere appreciation to **Mrs. Vartika** for taking the time to return to her alma mater and share her experiences, insights, and valuable guidance with the students. Her interaction served as an encouragement for students to remain adaptable, continuously learn, and confidently explore diverse career possibilities.

The programme was a meaningful and enriching learning experience for the MCA students and reflected AIIT's continued commitment to strengthening **industry-academia interaction, alumni engagement, experiential learning, and holistic student development.**



✓ **Swachh Jeevan Abhiyan: Spreading Awareness, Inspiring Change**

The **Amity Institute of Information Technology (AIIT), Amity University Patna**, successfully organised the **Swachh Jeevan Abhiyan** on **9 September 2026** at **Gyan Vigyan Samiti** as an initiative to promote awareness about cleanliness, personal hygiene, healthy habits, and responsible citizenship among students.

The session began with an introduction to the objectives of the campaign, highlighting the importance of maintaining personal hygiene and adopting cleanliness as an essential part of everyday life.

The programme included an engaging and interactive session on **personal hygiene**, where students learned about healthy practices that contribute to overall well-being. This was followed by activity-based learning through an interactive **Good and Bad Habits** exercise, which encouraged participants to identify positive lifestyle choices and understand the significance of responsible daily habits.

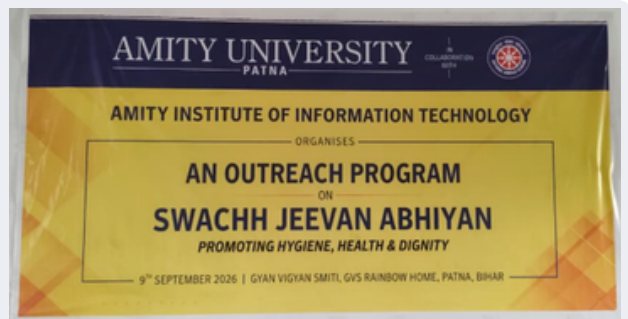
Students were also introduced to the **proper handwashing technique** through a practical demonstration, reinforcing the importance of effective hygiene practices in preventing the spread of illnesses. Another important component of the session focused on creating awareness about the dignity of labour and encouraging students to recognise and respect the invaluable contribution of sanitation workers in maintaining clean and healthy communities.



A major highlight of the event was an **awareness skit**, presented by the organising team, which creatively conveyed the message of cleanliness, hygiene, and collective social responsibility. The performance effectively engaged the students while delivering meaningful messages in an informative and relatable manner.

The programme concluded with a **Cleanliness Pledge**, inspiring students to commit themselves to maintaining cleanliness in their homes, educational institutions, and surrounding communities. The session ended with participatory activities and the distribution of materials among the attendees.

With the active participation of **43 students**, the Swachh Jeevan Abhiyan proved to be an enriching and impactful outreach initiative. The event reflected AIIT's continued commitment to fostering social awareness, community engagement, and the holistic development of students by encouraging values that contribute towards a cleaner, healthier, and more responsible society.



✓ Orientation 2026: A New Beginning

The **Amity Institute of Information Technology (AIIT)**, **Amity University Patna**, warmly welcomed its newest students through the **Orientation Programme 2026**, marking the beginning of an exciting academic journey.

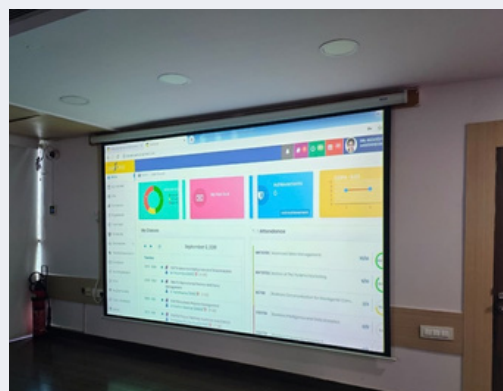
Day 1 featured a university-level orientation, introducing students to the university's academic environment, values, opportunities, and vibrant campus culture.

Day 2 focused on the departmental orientation for students of **BCA, MCA, BCA + MCA Integrated Programme, and B.Sc. IT**, offering insights into their programmes, curriculum, faculty, learning opportunities, and avenues for academic and professional growth.

The two-day programme fostered meaningful interaction, connection, and a sense of belonging, setting an inspiring tone for the new academic session.

As the students begin this new chapter, **AIIT looks forward to nurturing their curiosity, strengthening their skills, and empowering them to become confident and future-ready professionals.**





✓ **Prakriti Utsav 2026**

Celebrating Nature through Creativity, Culture and Sustainable Action

Amity Institute of Information Technology (AIIT), Amity University Patna, hosted **PRAKRITI UTSAV 2026** on **30 September 2026**, bringing together students, faculty members and participants from various schools and colleges for a vibrant celebration of nature, creativity, culture and sustainable action.

With the theme "**Celebrating Nature through Creativity, Culture and Sustainable Action**," the programme sought to create environmental awareness while providing young minds with opportunities to learn, create, collaborate and engage meaningfully with nature.

The inaugural ceremony was graced by **Mrs. Rama Nishad, Minister of BC & EBC Welfare Department, Government of Bihar**, whose presence added significance to the occasion. The programme was organised in collaboration with the **Environmental Warriors** team.

Where Creativity Met Nature

PRAKRITI UTSAV brought together a diverse range of activities, offering participants different ways to explore their relationship with nature.

Nature on Screen encouraged participants to explore environmental concerns through films, documentaries, animations and visual storytelling. **Nature Reimagined**, an inter-school competition, challenged participants to transform discarded, reusable and natural materials into innovative creations reflecting the idea of sustainability.

Through **Taste of Nature**, an inter-college competition, participants showcased local, natural and traditional food practices. **Wall of Generation**, an intra-departmental painting competition, explored the theme "**From ancestors to Gen Z: Reimagining our Relationship with Nature**."

The interactive **Nature in Action** zone encouraged participants to observe, explore and learn through activities such as leaf, plant and bird identification, leaf printing and Human Snakes and Ladders. Meanwhile, **Hands-on Nature** provided opportunities for creative engagement through pottery making, nest making and bird-feeder making.



The **Green Bazar** added another dimension to the celebration by promoting sustainable living through plants, seeds, eco-friendly products, planting materials and sustainable lifestyle choices.

A Platform for Young Minds

The programme received an **overwhelming response, with around 300 participants** from Amity and various schools and colleges. The enthusiastic participation reflected the growing interest of young learners in nature and sustainable practices.

More than a collection of activities, PRAKRITI UTSAV provided a shared platform where young minds could **learn, create and collaborate**, while reflecting on their relationship with nature and their role in building a greener and more sustainable future.

The successful execution of the programme was made possible through the **collective efforts and commitment of the faculty members, student coordinators, volunteers and the entire organising team.**

AIIT sincerely acknowledges **Mrs. Rama Nishad and the Environmental Warriors team** for their valuable collaboration and support in bringing this meaningful environmental awareness initiative to Amity University Patna.

Looking Towards a Sustainable Future

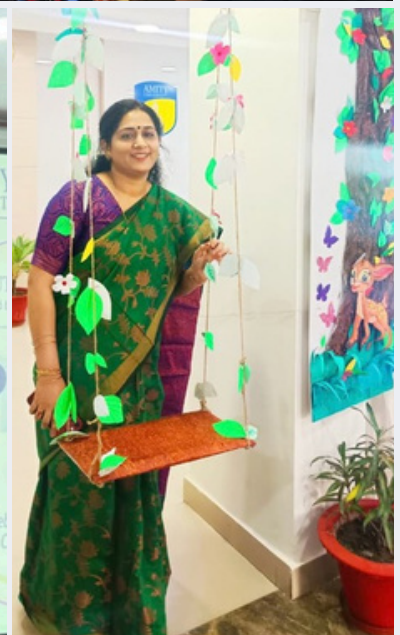
PRAKRITI UTSAV 2026 served as a meaningful reminder that environmental consciousness can be nurtured through **creativity, participation and collective action.** By bringing together learning, imagination and hands-on experiences, the celebration encouraged students to view nature not only as something to appreciate, but also as a shared responsibility.

PRAKRITI UTSAV 2026 was, ultimately, a celebration of young minds coming together to learn from nature, create with purpose and look towards a more sustainable future.









02 RESEARCH AND PUBLICATION

✓ Notable Faculty Publications & Achievements

The faculty members of **Amity Institute of Information Technology (AIIT)** have continued to excel in research through impactful publications, conference papers, journal articles, reviews, and books in emerging areas such as **Artificial Intelligence, Blockchain, Cyber Security, IoT, Healthcare, Smart Grids, Cloud Computing, and Machine Learning.**

- **Dr. Rashmi Shekhar**

Professor & Deputy Director

“Self-Supervised Contrastive Temporal Graph Transformer for Large-Scale Smart City IoT Traffic Prediction”

Publication Type: Conference Paper

Conference: International Conference on Computational Robotics, Testing and Engineering Evaluation (ICCRTEE)

Publisher/Platform: IEEE Xplore

“Deep Concept of C Programming with Code: C Programming with Code”

Publication Type: Book Publication

Book Type: Academic/Research Book

Format: Kindle Edition

- **Dr. Arvind Kumar Mishra**

Associate Professor

“A Computational Framework for Analyzing Maintainability in Service-Oriented Systems Using Soft Computing.”

Publication Type: Book Publication

Book Type: Academic/Research Book

Format: Kindle Edition

“Depth of Python Programming With Code: Basic Concept Of Python”

Publication Type: Book Publication

Book Type: Academic/Research Book

Format: Kindle Edition



✓ Notable Faculty Publications & Achievements

“Mastering Object Oriented Programming with C++: Practical Programs, Company Interview Questions, MCQ, Concept, Coding”

Publication Type: Book Publication

Book Type: Academic/Technical Book

Format: Kindle Edition

Co-authors: Dr. Arvind Kumar Mishra, Mr. Ankur Gupta, Dr. Rashmi Shekhar, Mr. Surya Narayan Ojha, Mr. Sarvesh Singh, Mr. Vikash Kumar

- **Dr. Sakshi Pandey**

Assistant Professor

“Efficient Homomorphic Encryption Techniques for Secure Data Processing in Cloud-Based” “A Multi-Criteria Decision Model for Maintainability Analysis in Service-Oriented Architectures”

Conference: International Conference on Intelligent Computing and Sustainable Technologies (ICST 2026)

Publication Type: Research Paper Presentation

Co-authors: Arvind Kumar Mishra, Vinay Shankar, Vandana Kumari, Ankur Gupta, Sarvesh Kumar, and Vikash Kumar

Proceedings: Scopus-indexed Springer Book Series

Conference: 6th International Conference on Inventive Computation and Information Technologies (ICICIT 2026)

Publication Type: Research Paper Presentation

Indexing: IEEE Conference

- **Dr. Ravi Kumar**

Assistant Professor

Reviewer – Scientific Reports

Contribution: Reviewer for 2 manuscripts in 2026

Indexing: Scopus & Web of Science

Recognition Type: Reviewer Certificate

- **Mr. Sarvesh Kumar**

Assistant Professor

“AI-Enabled Diagnostic Framework for Diabetes Detection Based on Patient Health Records”

Publication Type: Conference Paper

Conference: International Conference on Information Management, Innovation Management and Industrial Engineering (ICIMMI 2025), Jaipur, India

Publisher: Association for Computing Machinery (ACM)

DOI: <https://doi.org/10.1145/3793449.3793512>

ISBN: 979-8-4007-2064-2

“Leveraging Artificial Intelligence and Machine Learning Techniques for Proactive Threat Detection, Anomaly Prediction, and Adaptive Defense Mechanisms in Cybersecurity Frameworks”

Conference: 2026 IEEE 6th International Conference on Computing, Power, and Communication Technologies (IC2PCT)

Publication Type: Conference Paper

Indexing: IEEE Xplore / Scopus

Reviewer – Discover Computing

Contribution: Reviewer for 1 manuscript in 2026

Indexing: Scopus & Web of Science

Recognition Type: Reviewer Certificate

Reviewer – Journal of Cloud Computing

Contribution: Reviewer for 1 manuscript in 2026

Indexing: Scopus & Web of Science

Recognition Type: Reviewer Certificate

- **Mr. Vikash Kumar**

Assistant Professor

“Drone Systems Engineering and Application”

Publication Type: Book Publication

Publisher: Chyren Publication

Book Type: Academic/Research Book



- **Ms. Anu Priya**
Assistant Professor

“An AI-Driven Secure Interpreter for Adaptive and Security-Aware Program Execution”

Journal: International Journal of Novel Research in Computer Science and Technology (INDJCST)

Publication Type: Peer-Reviewed Journal Article

“Unveiling Twitter Influence Patterns: A Machine Learning Analysis of Nifty50 Users”

Book: Innovative Computing and Communications – Proceedings of ICICC 2026, Volume 10

Publication Type: Conference Paper / Book Chapter

Publisher: Springer Nature

Series: Lecture Notes in Networks and Systems (LNNS), Vol. 2052

DOI: [10.1007/978-3-032-30909-9_11](https://doi.org/10.1007/978-3-032-30909-9_11)

- **Ms Khushboo**
Assistant Professor

“A Systematic Literature Review on the Applications of Large Language Models in Software Requirements Engineering”

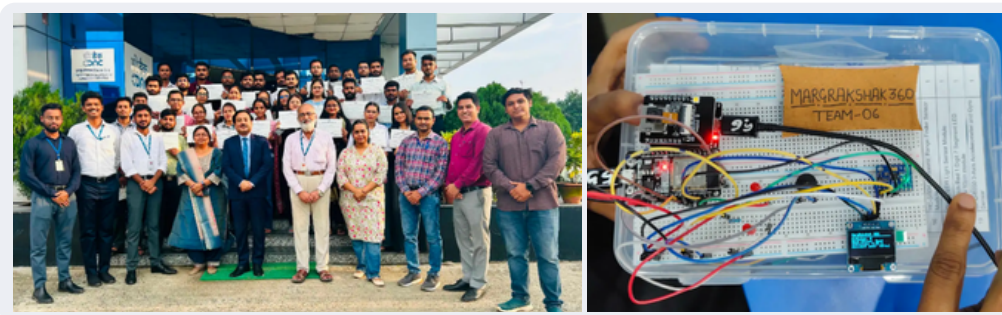
Journal: International Journal of Engineering and Applied Computing

Publication Type: Review Article

03 RECOGNITION & ACCOLADES

✓ Best AIoT Project at C-DAC Patna

Asif Ekhlague, Satyam Shivam, Vishal Kumar, and Nirvesh Kumar, students of MCA III Semester, secured **First Position** and were awarded **Best Project in AIoT** during the **45-Day Employability in IoT Summer Training at C-DAC Patna**, completed in July 2026. Their project, **"MargRakshak 360,"** integrates Artificial Intelligence, Internet of Things, and Computer Vision to develop a smart road-monitoring solution. The system is designed to detect potholes, cracks, waterlogging, and other potential road hazards, supporting safer roads and predictive maintenance. The project showcases the students' ability to apply emerging technologies to a practical real-world challenge in the domain of smart transportation and road safety.



✓ AI and Robotics Internship at RealSkill

Anushka Kumari, a B.Sc. (IT) III Semester student, successfully completed a **one-month internship/course in Artificial Intelligence and Robotics through RealSkill** in July 2026. The internship provided hands-on exposure to robotic systems, sensor-based applications, AI-driven automation, system integration, problem-solving, and autonomous robotic solutions. The experience enabled her to strengthen her technical knowledge while further developing her problem-solving, teamwork, and professional skills.



✓ AloT Internship at C-DAC

Aditya Kumar, students of MCA III Semester, successfully completed an **AloT internship at C-DAC** in July 2026. The internship provided him with hands-on exposure to Artificial Intelligence and the Internet of Things, offering valuable practical experience beyond the classroom. Through this opportunity, he strengthened his technical understanding and gained industry-oriented experience in emerging technologies, contributing to his overall professional development.



✓ Third Position at Smart India Hackathon Internal Campus Qualifier

Ayan Hussain, a BCA III Semester student, along with his team **GeoNex**, secured **Third Position at the Smart India Hackathon Internal Campus Qualifier**, held on **26 August 2026**. The team members were Ayan Hussain, Ishaan Dinesh Singh, Gautam Kumar, Samriddhi Kumari (Team Leader), Abhishek Kumar, and Aditya Kumar. The achievement highlights the team's collaborative effort, technical capabilities, and commitment to developing innovative solutions as part of the hackathon.



✓ First Position at Smart India Hackathon Internal Campus Qualifier

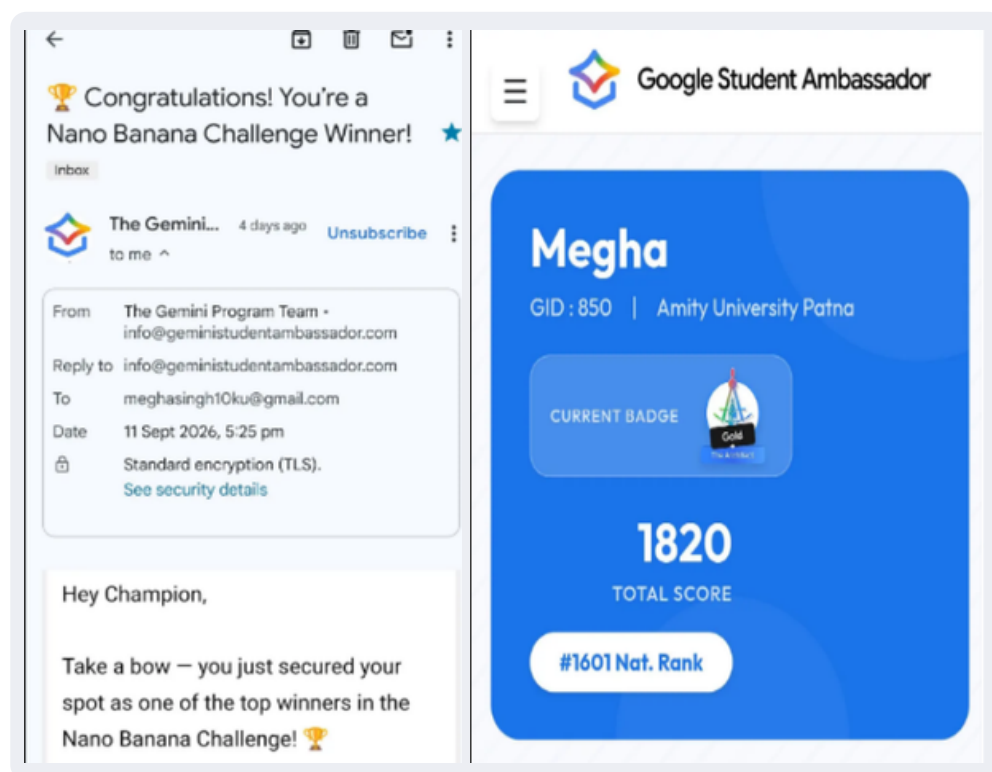
Ayesha Rahmani and **Shreya Chowdhury**, BCA V Semester students, were members of **Team TerraShield**, which secured **First Position at the Smart India Hackathon 2026 Internal Campus Qualifier**, held on **26 August 2026**. The team worked on **Problem Statement 26001** and developed **SlopeShield**, an AI-powered landslide risk prediction and disaster management solution focused on real-time risk assessment, GIS-based visualization, and prioritization of vulnerable areas. The project demonstrates the application of Artificial Intelligence and technology to address disaster-management challenges. The event was hosted by the **Aikyam Club, Amity School of Engineering & Technology**.



✓ Google Student Ambassador 2026: Nano Banana Challenge Winner and Gold Badge Recipient

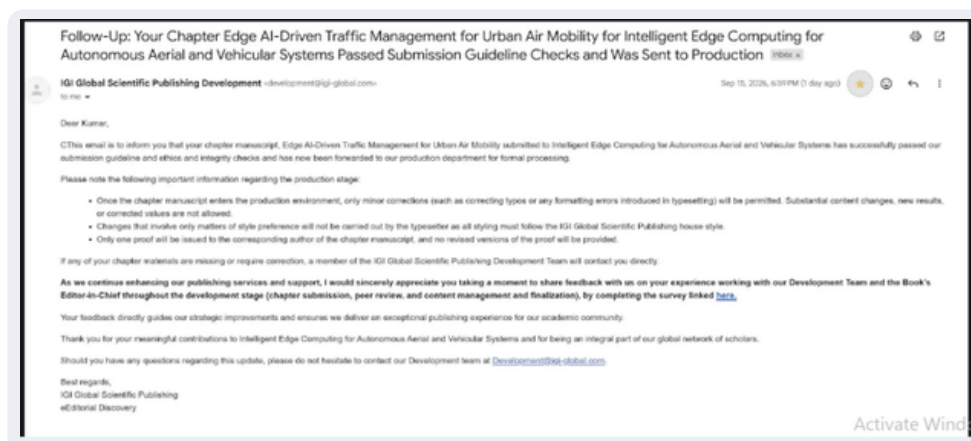
Megha Singh, a BCA V Semester student, received notable recognition through the **Google Student Ambassador (GSA) 2026** program. On **11 September 2026**, she was recognized as one of the winners of the **Nano Banana Challenge** and was awarded a **Gold Badge** for her consistent efforts in building and strengthening the student community. The recognition highlights her active participation, creativity, and contribution to community-building initiatives as part of the GSA 2026 program.





✓ Research Publication: Book Chapter on Edge AI and Urban Air Mobility

Nitesh Kumar, an MCA III Semester student, has successfully authored a research book chapter titled **“Edge AI-Driven Traffic Management for Urban Air Mobility: An Edge Intelligence Framework for Smart Cities.”** The chapter, reported on **15 September 2026**, has successfully completed the submission and ethics checks and is currently in the final production stage for publication in the upcoming book **“Intelligent Edge Computing for Autonomous Aerial and Vehicular Systems,”** to be published by **IGI Global Scientific Publishing**. The research explores **Edge AI, Deep Reinforcement Learning, and TinyML** for smart city infrastructure and urban air mobility. Nitesh Kumar is the **Corresponding Author and Chapter Author of this international publication.**





✓ Industrial Summer Training in AI on IoT at C-DAC Patna

Nitesh Kumar, an MCA III Semester student, successfully completed an **Industrial Summer Training** on “**Artificial Intelligence on Internet of Things (AI on IoT)**” at the **Centre for Development of Advanced Computing (C-DAC), Patna**, from **22 June to 31 July 2026**. During the training, he collaborated with the team “**Vandrishti**” on a project titled “**Smart Railway Wildlife Collision Prevention System.**” The training provided hands-on experience in **integrating Artificial Intelligence with IoT sensors and hardware** for real-world applications, strengthening his practical understanding of emerging technologies.





EDITORIAL

The Amity Institute of Information Technology, Amity University Patna is pleased to present “**AmiTechNova – Fortnightly Tech Digest**,” a dynamic publication that captures the essence of our department’s continuous growth and innovation. This edition highlights key departmental activities, faculty and student publications, notable student achievements, as well as placements and internship milestones. It reflects the dedication, talent, and academic excellence of our students and faculty, while showcasing our commitment to fostering a culture of learning, research, and professional development. Through **AmiTechNova**, we aim to keep our academic community informed, inspired, and connected with the latest advancements and accomplishments in the field of Information Technology

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