

# RVSCET SPARK

RVS COLLEGE OF ENGINEERING AND TECHNOLOGY JAMSHEDPUR



Bollywood Singer  
Jyotika Tangri  
performed at  
our college fest

PROVENANCE4.0



## INAUGURATION - AI LAB

*Empowering individuals  
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## SKILLS DEVELOPMENT

*"Investing in employee skills  
development fosters innovation, enhances productivity, and drives sustainable business growth."*





## From the Editor's Desk: *Envisioning the Future of Education*

As we gaze into the future of education, it's like stepping into a vibrant kaleidoscope of possibilities. Gone are the days when learning was confined to the four walls of a classroom, with a blackboard as the centerpiece. Today, the landscape of education is transforming more rapidly than ever, fueled by technological advancements that are as exciting as they are inevitable.

Imagine a world where learning is not just personalized but highly adaptive; a world where AI tutors analyze the learning patterns of students to tailor content uniquely suited to their pace and style. This is not a snippet from a science fiction novel but a very tangible future that's unfolding before our eyes.

Hybrid models of education are emerging, blending traditional classroom experiences with cutting-edge online platforms. These models offer flexibility and access to a global classroom where students from Jamshedpur to Johannesburg can learn in unison, participate in real-time discussions, and share perspectives across continents.

However, with great innovation comes great responsibility. As we navigate this new era, the challenge lies in making these technologies accessible to all, ensuring that no student, regardless of geographical or socio-economic background, is left behind. Bridging this digital divide will be crucial in shaping an inclusive future that upholds the true spirit of education—equality.

Moreover, the role of teachers is also evolving. Rather than gatekeepers of knowledge, educators are becoming facilitators of learning experiences, guiding students through information-rich landscapes and encouraging critical thinking and problem-solving skills that machines cannot teach.

As we ponder the future of education, it's clear that we are not just passive observers but active participants in its shaping. Let's embrace these changes with open arms and open minds, ensuring that education continues to be a beacon of hope and a ladder of opportunity for everyone.

In this transformative journey, let us all—students, educators, policymakers, and technologists—work together to create an educational future that is not only innovative but inclusive, not just high-tech but high-touch.

Here's to the future of education—may it be as bright and promising as the minds we endeavor to nurture.

**Shipra Singh** (*Editor*)  
RVSCET Jamshedpur





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# PROVENANCE4.0

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## *A Vibrant Celebration of Technology and Culture*

**Jamshedpur, April 12-14, 2024:**

The RVS College of Engineering and Technology (RVSCET), Jamshedpur, successfully hosted its annual techno-cultural fest, Provenance 4.0, from April 12th to 14th, 2024. The three-day extravaganza brought together students not only from RVSCET but also from various colleges across Jamshedpur, fostering a spirit of competition and camaraderie.

### **Day 1 - Inaugural Ceremony and Ramp Walk Takes Center Stage**

**Jamshedpur, April 12, 2024**

The Provenance 4.0 Techno-Cultural Fest was inaugurated at RVS College of Engineering and Technology. This three-day fest saw participation not only from RVSCET students but also from students of various colleges around Jamshedpur city. Our esteemed chairman of RVS Educational Trust, Mr. Binda Singh, inaugurated the fest by lighting the lamp. Other notable attendees included the secretary of RVS Educational Trust, Mr. Bharat Singh, treasurer of RVS Educational Trust, Mr. Shatrughna Singh, executive member of RVS Educational Trust, Mr. Shakti Singh, and principal of RVSCET, Dr. Rajesh Kumar Tiwari.

Provenance co-ordinators, Professor Sushant Mohanty and Professor Thakur Pranav Kumar Gautam welcomed the distinguished guests with bouquets. In his welcome speech, Principal Dr. Rajesh Kumar Tiwari provided insights into the fest and its events, while Treasurer Mr. Shatrughna Singh congratulated everyone on the inauguration. Secretary Mr. Bharat Singh emphasized the importance of holistic development for students, highlighting recognition beyond academics. The program commenced with Saraswati Vandana performed by Rashmi Kumari and Payal Manna, followed by Ganesh Vandana by Madhu Shri and Rakhi Kumari.

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**Day 2: A Showcase of Artistic Talent**

**Jamshedpur | April 13, 2024**

The second day of Provenance 4.0, April 13, witnessed a vibrant display of artistic talent. Students from various colleges, including Jamshedpur Women's University, Manipal Tata Medical College, Netaji Subhash University, and Arka Jain University, actively participated in a range of competitions. The events included Street Reloaded, Dumb Charades, Robo War, Cut the Crap, Antakshari, Solo Singing, Rubik's Cube solving, and PC gaming. The winners from each category were felicitated during the day. The highlight of the evening was a thrilling DJ night, keeping the energy high.



**Grand Finale:**

**Provenance 4.0 Wraps Up with JyotikaTangri's Stellar Performance**

**Jamshedpur | April 14, 2024**

Provenance 4.0, the much-anticipated *Annual Techno-Cultural Fest* of RVS College of Engineering and Technology (RVSCET), concluded on a high note with a mesmerizing performance by renowned *Bollywood singer Jyotika Tangri*. The event, held on the college campus, showcased a fusion of technology, culture, and creativity, leaving attendees captivated and enthralled.



The fest saw participation from students, faculty, and enthusiasts from across the region. With a range of events from technical competitions to cultural extravaganzas, Provenance 4.0 provided a platform for students to showcase their talents and innovative ideas. The final day featured a scintillating performance by Bollywood playback singer JyotikaTangri, known for her soulful renditions and dynamic stage presence. Tangri's electrifying performance left the audience spellbound with chart-topping hits and mesmerizing melodies.



**A Resounding Success**

The curtains closed on Provenance 4.0 with a sense of accomplishment and camaraderie. Speaking about her experience, JyotikaTangri expressed her delight at being part of Provenance 4.0 and praised the students' talent and enthusiasm. Principal Dr. Rajesh Kumar Tiwari and the organizers of Provenance 4.0 expressed their gratitude to the participants, sponsors, and volunteers who contributed to the event's success. Our treasurer, Mr. Shatrughna Singh said, "Provenance 4.0 has been a remarkable journey, filled with memorable moments and exceptional talent. We are grateful to everyone who supported us and made this fest a resounding success."

As the curtains drew to a close on Provenance 4.0, attendees departed with fond memories and a sense of camaraderie, eagerly anticipating the next edition of this Techno-Cultural extravaganza.





## 5TH IEEE CONFERENCE ON RECENT TRENDS IN COMPUTER SCIENCE AND TECHNOLOGY

JAMSHEDPUR | APRIL 15, 2024 (1st Day)

The 5th IEEE Conference on Recent Trends in Computer Science and Technology (ICRTCST) commenced at RVSCET, orchestrated by the Departments of Electronics and Communication Engineering (ECE) and Electrical and Electronics Engineering (EEE). The conference, inaugurated by Dr. D.K Singh, Vice-Chancellor of Jharkhand Technical University, spans two days filled with insights from global experts. This event served as a robust platform for researchers, academicians, and industry professionals to explore and discuss burgeoning advancements in the field.

Esteemed keynote speakers included Prof. Dr. G. Sahoo from IIT ISM Dhanbad, who elucidated the significance of Machine Learning and the foundational role of statistics in algorithm design. Prof. Abu Bakar Bin from Infrastructure University Kuala Lumpur, Malaysia, provided expertise on the emerging trends in AI and the accompanying challenges in computer science and technology.



Researchers and scholars worldwide showcased their original research through both online and offline paper presentations, covering a broad spectrum of topics within computer science, electronics, and electrical engineering. The conference also featured interactive sessions, including engaging panel discussions, workshops, and tutorials, enabling participants to delve into specialized areas, enhance skills, and foster idea exchanges among peers and experts.

# Concluding Insights: 2 Day International Conference at RVSCET Jamshedpur

JAMSHEDPUR | APRIL 16, 2024 (2nd Day)

The two-day international conference at RVS College of Engineering and Technology wrapped up with a ceremony graced by Prof. Dr. Pankaj Rai, Director of BIT Sindri, as the chief guest. Also in attendance were Shri Sanjay Kumar Mishra, local editor of Prabhat Khabar, along with RVS Educational Trust Chairman Mr. Binda Singh, Treasurer Mr. Shatrughan Singh, Governing Body Member Mr. Shakti Singh, and College Principal Dr. Rajesh Kumar Tiwari.

Prof. Rai highlighted the invaluable role of Artificial Intelligence in contemporary society and its potential to revolutionize various sectors. Special guest Shri Sanjay Kumar Mishra emphasized the necessity of AI and Machine Learning for research advancements and societal identity formation. TRUST Treasurer Mr. Shatrughna Singh commended the innovative presentations, noting their potential to significantly impact social conditions.

Principal Prof. Tiwari applauded the dedication of all participants, who presented a total of 120 papers across eight technical sessions. The conference, a beacon for pioneering research and collaboration, anticipates further enlightening discussions and paper presentations in its future iterations. Dr. Sudhir Jha, in his closing remarks, extended a heartfelt vote of thanks to all attendees and contributors, marking the successful conclusion of this enriching conference.



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## A JOYOUS REUNION: RVSCET Alumni in Bangalore

JAMSHEDPUR | APRIL 21, 2024

The first-ever alumni meet of R.V.S College of Engineering and Technology, Jamshedpur, held in Bangalore, marked a memorable gathering with an impressive turnout. Hosted at the elegant Courtyard Banquet in Indiranagar, the event brought together alumni from various decades, providing a golden opportunity to reconnect, network, and celebrate the enduring spirit of their alma mater.

The reunion kicked off with a warm welcome address by Dr. Rajesh Kumar Tiwari, Principal of RVSCET, who extended his gratitude to all attendees for their enthusiastic participation. Following the welcome, the event featured interactive sessions and panel discussions on a variety of topics, including career advancement and industry trends.

One of the day's highlights was the felicitation of distinguished alumni who have made significant contributions to their fields. Their inspiring success stories motivated the younger generation of RVSCET

graduates and underscored the profound impact of the college's educational programs. Throughout the day, the atmosphere was charged with heartfelt conversations as alumni rekindled old friendships, exchanged professional insights, and forged new alliances. They shared fond memories of their college days, recalling anecdotes, and academic triumphs, and shared experiences that shaped their lives.

Reflecting on the success of the reunion, Dr. Vikram Sharma, Head of Training and Placement at RVSCET, remarked, "The overwhelming response to our first alumni meet in Bangalore is a testament to our alumni thriving in diverse fields and coming together to celebrate our shared heritage."

The inaugural alumni reunion concluded on a high note, with attendees expressing their eagerness for future gatherings and collaborative initiatives aimed at giving back to their alma mater.





# Voting Awareness Campaign Energizes Local Community Jamshedpur

JAMSHEDPUR | May 17, 2024

The R.V.S. College of Engineering and Technology (RVSCET) organized a Voting Awareness Campaign to educate and motivate local villagers about the importance of voting. This civic engagement initiative was inaugurated by Mr. Shatrughna Singh, Treasurer of RVS Educational Trust, and was honoured with the presence of Prof. (Dr.) Rajesh Kumar Tiwari, Principal of RVSCET.



Coordinated by Prof. Amit Kumar Sinha, P/I of Diploma in Engineering, with the assistance of faculty members Prof. Rashika Dadiyala and Prof. Sudha Kumari Jha, the campaign was a National Service Scheme (NSS) activity managed by Mr. Atma Prasad, Warden of the Boys Hostel, and Mr. Prahlad Gope, staff member. Diploma students participated enthusiastically, engaging with the villagers to highlight the upcoming election on May 25, 2024, in Jamshedpur, Jharkhand. The event was a significant success, enhancing the community's understanding of their democratic rights and responsibilities.



## Inspirational Talk by Industry Leader

JAMSHEDPUR | May 22, 2024

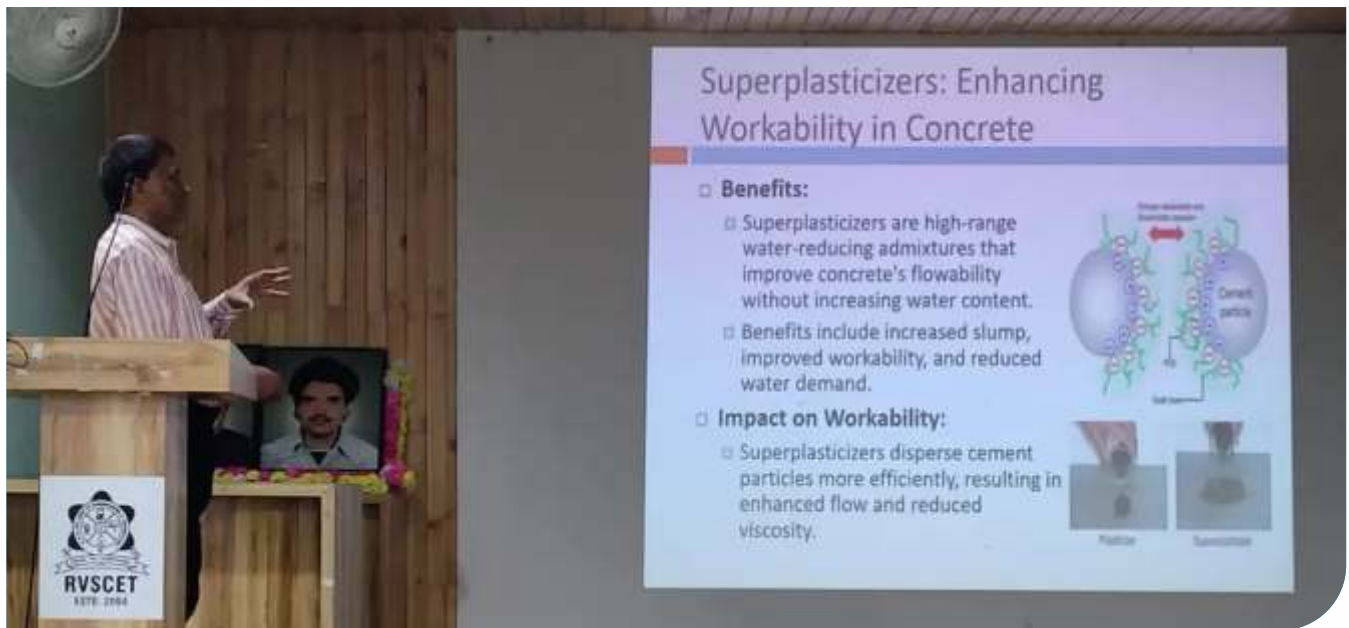
A noteworthy session was held at RVSCET with Mr. Harish Kumar, CEO of ATCUALITY, who shared his insights and expertise with the faculty. The event aimed at fostering professional development and was well-received by the academic community.

Mr. Kumar's presentation covered significant topics within engineering and technology, offering new perspectives on industry trends and future innovations. The faculty actively participated in discussions, appreciating the opportunity to expand their knowledge and integrate new ideas into their teaching and research endeavours. This event underscores RVSCET's commitment to academic excellence and innovation, preparing both students and faculty for future challenges.



# Faculty Development Program - Boosts Academic Expertise

JAMSHEDPUR | May 23, 2024



RVSCET recently concluded a Faculty Development Program (FDP), which served as a vibrant platform for enriching academic excellence and innovation among its faculty members. The event featured Dr. B.K. Prasad, whose expertise on the latest advancements in engineering and technology, illuminated the session.

The program was enthusiastically attended by faculty members who engaged in deep discussions and shared knowledge on various cutting-edge topics. This interaction not only reinforced the college's dedication to continuous learning but also helped faculty members enhance their teaching methodologies and research efforts. RVSCET continues to prioritize professional development initiatives, maintaining its reputation as a center of academic excellence and fostering a dynamic learning environment.



# RVSCET Jamshedpur Celebrates 22<sup>nd</sup> Foundation Day

JAMSHEDPUR | May 24, 2024

RVS College of Engineering and Technology, Jamshedpur marked its 22<sup>nd</sup> Foundation Day with grandeur and enthusiasm, commemorating two decades of academic excellence and community engagement. This momentous occasion was celebrated at the college auditorium, uniting management, faculty, staff, and distinguished guests in a tribute to the institution's enduring legacy and achievements.

The celebration commenced with a solemn inaugural ceremony. The Chairman, Mr. Binda Singh, and Treasurer, Mr. Shatrughna Singh, both key figures in the foundation and growth of the college, shared their profound insights and experiences. Their speeches, rich with historical anecdotes and visions for the future, deeply inspired all present.

Following the opening remarks, Principal Dr. Rajesh Kumar Tiwari took the stage to deliver a compelling welcome address that highlighted the college's milestones and outlined ambitious aspirations for the years ahead. His speech underscored RVSCET's commitment to continual growth and excellence.



The day was further enriched by a series of Faculty Development Programs (FDPs) led by distinguished experts across various fields. These sessions provided valuable knowledge and showcased the latest advancements in technology and engineering, empowering the RVSCET community to lead and innovate.

A highlight of the celebration was the awards ceremony, where faculty members were recognized for their exceptional contributions to academics, research, and extracurricular activities. These accolades celebrated the hard work and dedication of the staff and served as motivation for the entire community to strive for excellence.

The festivities concluded with a grand celebratory feast, reinforcing the bonds of camaraderie among the college community and leaving everyone with cherished memories and a renewed sense of pride. The entire day was a testament to the innovative mindset and dedication nurtured at RVSCET, reflecting the college's commitment to nurturing future engineers and technologists.

As RVSCET looks to the future, this 22<sup>nd</sup> Foundation Day celebration will remain a cherished milestone, marking a significant chapter in its history and setting the stage for continued growth and success.



# RVS College Encourages Citizen Participation in Democratic Process

JAMSHEDPUR | May 25, 2024

RVS College of Engineering and Technology took a proactive role in encouraging voter participation as Jamshedpur prepared for upcoming elections. The college organized a campaign to educate the local community on the importance of voting, emphasizing that "every vote counts as a crucial step towards shaping the nation's future."

Mr. Bharat Singh, Secretary at RVS College, highlighted the campaign's message, stating, "Your vote is your voice, and it's essential for the progress of our country. As responsible citizens, it is our duty to exercise this right and contribute to the democratic fabric of our society." This initiative not only aimed to mobilize voters but also to instill a sense of responsibility and active citizenship among students and the broader community. The college's commitment to fostering civic engagement and promoting democratic values was clearly reflected in this significant outreach effort.



# Successful Completion of the Professional Development Training Program at RVSCET

JAMSHEDPUR | June 10, 2024

RVS College of Engineering and Technology recently celebrated the successful completion of a week-long Professional Development Training Program focused on Advanced Computer Skills. This initiative was part of the college's ongoing effort to maintain educational excellence and ensure its staff remains at the forefront of technological advancements. Throughout the intensive training, participants engaged in sessions designed to enhance their technical competencies, covering a diverse range of crucial topics for professional growth in the rapidly evolving landscape of computer technology. The program was well-received, with participants expressing their enthusiasm and commitment to integrating new skills into their work. Certificates of achievement were ceremoniously distributed to all participants, recognizing their dedication and successful completion of the training. "We extend our heartfelt congratulations to all the participants for their exemplary commitment and eagerness to embrace new learning opportunities," said a spokesperson from the college. This program underscores the institution's dedication to equipping its staff with cutting-edge skills, essential in today's competitive environment, and upholds its reputation as a leader in engineering education and professional development.



# RVSCET Celebrates International Yoga Day with Enthusiasm and Unity

JAMSHEDPUR | June 21, 2024

RVSCET embraced International Yoga Day with a spirited celebration that saw active participation from students, faculty, and staff. The event was organized to promote the physical and mental well-being of the RVSCET community and to emphasize the significance of yoga in daily life.

The day began with a welcome address by Treasurer Mr. Shatrughna Singh, who lauded the inception of International Yoga Day as a great initiative by Honourable Prime Minister Mr. Narendra Damodar Das Modi at the United Nations summit. This was followed by a series of yoga sessions led by experienced instructors, guiding participants through various asanas (postures) and pranayama (breathing exercises). These sessions catered to all levels of experience, ensuring inclusivity and widespread participation.

Principal, Dr. Rajesh Kumar Tiwari provided informative talks on the benefits of yoga, mindfulness, and meditation, shedding light on how these practices can help manage stress, improve concentration, and enhance overall well-being. The event culminated in a group meditation session, allowing everyone a moment to reflect and connect with their inner selves.

Feedback from participants was overwhelmingly positive, highlighting the success of the event and the growing interest in integrating yoga into daily routines. The celebration not only fostered a sense of unity but also encouraged the adoption of a healthier and more balanced lifestyle through the practice of yoga.





# Inauguration of AI Skill Lab at RVSCET Jamshedpur: Unveils Cutting-Edge Technology

JAMSHEDPUR | July 5, 2024

In a significant development, RVS College of Engineering and Technology celebrated the inauguration of its state-of-the-art Artificial Intelligence Skill Lab. This new facility marks a pivotal moment for RVSCET as it stays at the forefront of technological advancements, ready to meet the challenges and opportunities of the future.

The inauguration was graced by esteemed guests, faculty members, students, and industry professionals. The AI Skill Lab, equipped with the latest technologies and tools, including advanced computing systems and AI software, is designed to provide practical, hands-on experience in artificial intelligence and machine learning.



The ceremony began with an address by Dr. Vikram Sharma, head of Training & Placement, who highlighted the transformative potential of AI in various industries. Principal Dr. Rajesh Kumar Tiwari emphasized the importance of equipping students with the necessary skills to thrive in an AI-driven world.

Distinguished guests, including Ms. Puja Yadav, program manager at Intel, and Mrs. Shradha Aggarwal from Easy Tech Solution Private Limited, shared insights on the evolving role of AI and its impact on different sectors. They underscored the importance of academic institutions in preparing the next generation of AI experts.

The event concluded with the official ribbon-cutting by Mr. Binda Singh, Chairman, signaling the operational commencement of the lab. Attendees were then treated to a guided tour of the lab, witnessing firsthand the demonstrations of ongoing AI projects.



## RVSCET Faculty Celebrates a Series of Notable Publications

The faculty at RVS College of Engineering and Technology continues to push the boundaries of innovation and research, contributing significantly to various fields of engineering and technology.

Here are some of the recent notable publications by our esteemed faculty members:

- "Implementation of Optimized All-Optical TR Logic Gate using the Micro-Ring Resonator Structure" by K Sai Kamal Kumar, Sushanta Mahanty, Ajay Kumar, Nilisha Kumari, Sushant Shekhar, and Ojasvita Wagisha.
- "Optimizing Resource Allocation for Device-to-Device Communication in Cellular Networks" by Abu Salim, Rajesh Kumar Tiwari, Shams Tabrez Siddiqui, Ali Tahir, Mohammad Shahid Kamal, and Mohammad Khamruddin.
- "Deep Learning Approaches for Super Resolution of Satellite Images" by Namrata Kumari, Tapan Kumar Dey, Smita Dash, Jeevan Kumar, and Nushrat Praveen.
- "Design and Implementation of All-Optical Decoder Using Phase-Shifted Fiber Bragg Grating" by Sushanta Mahanty, Sanjeev Kumar, Ajay Kumar, Puja Kumari, Santosh Kumar, and Tousif Raza.
- "Industrial Building Vibration Detection Using Wireless Sensor Network" by Sushanta Mahanty, Rakesh Kumar, Akash Sharma, Madhu Kumari, Prity Kumari, and Puja Kumari.
- "Resonant Control: Managing Optical Routes with Non-Linear Switching Technique using Micro-ring Resonator" by Sushanta Mahanty, Ajay Kumar, Yamini Kumari, Tryphenna Durgey, Ashwin Kumar Yadav, and Gulshan Singh.
- These publications reflect the high caliber of research being conducted at RVSCET and underscore our commitment to contributing to global technological advancements.



# Welcome Aboard: Introducing Our New Faculty Members

RVSCET is pleased to welcome three distinguished professionals joining our academic team. Their expertise and enthusiasm bring fresh perspectives to our vibrant educational community:



**Prof. Ramakrishna Prajapati**, Assistant Professor in the Computer Science Engineering Department, brings a wealth of knowledge and experience in software development and system architecture. His innovative teaching methods are expected to inspire and challenge our students in new and exciting ways.



**Prof. Falak Neyaz**, joining as an Assistant Professor in the Science and Humanities Department, specializes in applied physics with a focus on material science. Her research interests align closely with RVSCET's goals of integrating scientific research into practical applications.



**Prof. Sulekh Kumar**, our new faculty member in the Master of Computer Applications (MCA) program, has an extensive background in computer applications and software engineering. His industry experience and academic expertise will greatly benefit our students preparing for careers in the tech industry.

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