



Rai University



RSE CONNECT DIGITAL NEWSLETTER

JULY TO SEPTEMBER 2024

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ABOUT RAI SCHOOL OF ENGINEERING



Rai School of Engineering is a constituent School of Rai University, established in 2013, and consists of Diploma, B.Tech, BCA, B.Sc. IT, and MCA programmes. RSE emphasizes on Skill Development, Project-Based Learning and ICT enabled pedagogies to provide Outcome Based Education to the budding student fraternity. RSE is powered by distinguished faculties who focus on quality Research Papers, Chapters and Books in addition to Patent publication and grants.

VISION

To be a center of excellence in technical higher and professional education, research and support services, capable of making significant contribution to individual and societal empowerment.

MISSION

To create technically qualified world-class professionals with social commitment through career oriented courses conducted by high profile faculties, complemented with globally interactive learning processes and leading edge technology.



► CSE/IT Department

VISION

To emerge as front runner in Computer Science and Engineering education and to transform the students into globally competent professionals with expertise in software development and aptitude for research and ethical values.

MISSION

- Inculcate problem solving and team building skills.
- Provide the necessary conducive environment for promoting Analytical Learning.
- Provide the ambience to become industry ready Professionals, Researchers and Entrepreneurs by offering courses on cutting edge technology and advanced laboratory courses for the students.
- Create positive mindset for digital automated and innovative solutions.

► Mechanical Engineering Department (Diploma)

VISION

To develop students into technically competent and talented professionals capable of meeting the requirements of industry and society.

MISSION

- To providing an economical and high-quality technical education to satisfy ever-changing and demanding needs through a supportive Teaching-learning environment.
- To Providing service to society and industry by creating people with technical capabilities and an entrepreneurial spirit.
- To providing comprehensive education with professional moral principles to promote learners harmonic growth.



▶ **Mechanical Engineering Department (B.Tech & M.Tech)**

VISION

To develop our students into technically competent and ethically ideal professionals with creative leadership characteristics and a confident attitude for serving society with worldwide attention.

MISSION

- To provide our whole undergraduate and postgraduate students with a complete understanding of numerous core engineering disciplines in order to determine their basic strength in mechanical engineering.
- To expose our students to a curriculum that includes contemporary labs, interdisciplinary studies, and industrial training so that they may get worldwide experience in world-class enterprises.
- Through numerous initiatives in their curriculum, we hope to boost our kids original ideas and develop their capacity for leadership and cooperation. To instill strong ethical traits in pupils in order to promote lifelong learning and service to society and the country as a whole.

▶ **Civil Engineering Department (Diploma)**

VISION

To produce competent Engineers with the necessary skills and abilities to meet the Emerging requirements.

MISSION

- To enrich the knowledge and competencies required at par with changing methods.
- To prepare learners for knowledge enhancement with value and ethics.
- To ensure facilities for quality and life-long learning.

Message from the Head of Department



Ms. Poonam Chakravarty
(HOD of CSE/IT Department)

Greetings from the Rai School of Engineering!

As we step further into this academic year, I would like to take a moment to connect with all of you and share some exciting updates and opportunities that lie ahead. Our world is evolving rapidly, and as engineers, we are at the forefront of this transformation. From sustainable technologies and AI advancements to the future of automation and space exploration, the scope of engineering today is boundless, and so are the possibilities for your future.

At Rai School of Engineering, we believe that innovation is not just a buzzword but a mind-set. We are committed to providing you with cutting edge learning experiences, hands-on projects, and exposure to the latest technologies. This year, we are expanding our industry collaborations and research initiatives, allowing you to engage with real-world problems and make meaningful contributions from the classroom to the field. With the growing integration of artificial intelligence, machine learning, and robotics in engineering, now is an exciting time to be part of this dynamic field. I encourage you to embrace these emerging trends as you develop your skills.

Engineering education is about practical knowledge and application. That's why we are continually enhancing our labs, infrastructure, and digital learning resources to ensure you have the tools you need to experiment, innovate, and solve problems. In addition to your regular curriculum, I strongly encourage you to participate in our workshops, hackathons, and internship programs. These opportunities will allow you to bridge the gap between theoretical knowledge and real-world practice. Our dedicated faculty is here to support you at every stage of your journey whether you are navigating coursework, conducting research, or making career decisions.



One of our key priorities this year is exploring the intersection of engineering and sustainability. As future engineers, you have the unique ability to design solutions that not only advance technology but also make a positive impact on the world. Whether it's through developing energy efficient solutions, working with eco-friendly materials, or creating smart city technologies, your work can help solve some of the world's most pressing challenges. Together, let's focus on engineering innovations that contribute to a sustainable and inclusive future for all.

As you continue your academic journey, I encourage you to think beyond traditional engineering. The future demands versatile engineers who possess cross-disciplinary knowledge, creativity, and the adaptability to thrive in ever-evolving industries. Keep asking questions, challenge assumptions, and embrace collaboration in all your endeavours. Whether you're working on a team project, contributing to research, or launching your own start-up, remember that creativity and innovation are key drivers of success.

Let's continue to push the boundaries of knowledge and technology, and work together to build solutions that will leave a lasting impact on society. I have no doubt that each one of you has the potential to shape the future of engineering in ways we have yet to imagine. Keep innovating, stay curious, and most importantly, believe in your potential. The future is in your hands.

Best wishes,

Ms. Poonam Chakravarty

Head-CSE/IT Department,
Rai School of Engineering,
Rai University

ACADEMIC EVENTS

DIKSHAARAMBH On 11th July 2024

On 11th July 2024, Rai University organized its annual orientation program, 'Dikshaarambh 2024', exclusively welcoming newly admitted B.Tech students to Rai School of Engineering (RSE). The day-long event aimed to familiarize students with the institution's comprehensive offerings and support services, setting a positive tone for their academic journey. The orientation began

Rai University
REALIZING THINKING RISES

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RAI UNIVERSITY'S
INNOVATION COUNCIL

दीक्षांभ २०२४
*Student Induction
cum Orientation Programme*

Organized by:
Rai University, Ahmedabad

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with a University presentation and interactive sessions, where students were introduced to academic policies, departmental structures, and campus facilities specific to the B.Tech programs. Faculty and staff engaged with students throughout the day, providing insights into various aspects of academic life, research opportunities, and resources such as the library, student welfare services, and state-of-the-art laboratories. Key departments like ERP and examinations conducted informative sessions, equipping students with practical knowledge essential for their engineering pursuits. The event not only imparted crucial information but also fostered a sense of camaraderie among participants, ensuring they felt prepared and motivated for the challenges ahead.

On 18th July 2024, Rai University organized its annual orientation program, 'Dikshaarambh 2024', welcoming newly admitted students to Rai School of Engineering (RSE) in BSc IT, BCA, Diploma CE, IT, ME program. The day-long event aimed to familiarize students with the institution's comprehensive offerings and support services, setting a positive tone for their academic journey.

The orientation at Rai School of Engineering began with a University presentation and interactive sessions, where students were introduced to academic policies, departmental structures, and campus facilities. Faculty and staff engaged with students throughout the day, providing insights into various aspects of academic life and resources such as the library and student welfare services. Key departments like ERP and examinations conducted informative sessions, equipping students with practical knowledge essential for their academic pursuits. The event not only imparted crucial information but also fostered a sense of camaraderie among participants, ensuring they felt prepared and motivated for the challenges ahead.

Throughout the day, students engaged in ice-breaking activities and networking sessions, enhancing camaraderie among peers. The department's crucial to academic and personal development, such as Examinations and Student Welfare, were introduced, emphasizing their roles in supporting students' overall growth. Practical aspects including library registration, ERP systems, transportation, and hostel accommodations were comprehensively covered, ensuring students were well-informed about campus facilities and resources. Orientation at Rai School of Engineering successfully equipped students with essential knowledge and resources while fostering a strong sense of community and belonging within Rai University. Participants left the event motivated and prepared, marking a promising beginning to their tenure at Rai University.



Celebrating Chandrayaan-2: India's Leap in Lunar Exploration On July 22, 2024

On July 22, 2024, Rai School of Engineering buzzed with excitement as students, faculty, and guests gathered at the seminar room for the event titled “Chandrayaan 2: India's Leap in Lunar Exploration.” Organized by the Student Startup and Innovation Policy (SSIP), the Institution Innovation Council (IIC), and the Rai School of Engineering, this event aimed to highlight the achievements and learnings from India's ambitious lunar mission, Chandrayaan-2. This gathering underscored the importance of space exploration and innovation, offering insights into the mission's objectives, challenges, and contributions to the scientific community.

The event kicked off at 10 am with a presentation by Mr. Meet Bakotia, Assistant Professor at Rai School of Engineering. He discussed the mission's technological and scientific milestones, emphasizing the innovative engineering solutions developed during the mission and their potential applications in other fields. Attendees had the opportunity to engage with Mr. Bakotia, fostering a deeper understanding of the complexities and triumphs associated with Chandrayaan-2. The discussions also highlighted the mission's significance in advancing India's space capabilities and its role in the global space community.

Throughout the day, the event facilitated networking and collaboration among participants, encouraging students to consider careers in space technology and research. By showcasing India's advancements in lunar exploration, the event inspired the next generation of engineers and scientists to contribute to the country's future missions. Overall, the event was a resounding success, highlighting the spirit of innovation and exploration that Chandrayaan 2 embodies.





Tips to Crack Group Discussions & Personal Interviews on July 26, 2024

Rai School of Engineering in collaboration with Corporate Resource Cell recently hosted an event titled “Tips to Crack Group Discussions & Personal Interviews” for final year and pre-final year students on 26th July 2024. The session featured Ms. Almas Shaikh, Lead Manager at SP Jain Institute of Management & Research, Mumbai, who served as the guest speaker. Ms. Shaikh provided valuable insights into effective communication strategies for group discussions (GD) and personal interviews (PI). She focused on articulating thoughts clearly, developing critical thinking, and presenting ideas persuasively. Additionally, she covered professional etiquette, including appropriate attire and behavior, and shared common interview questions and recruiter expectations.



Rai University
EVOLVING THINKING MINDS

नवोत्थान
The Rejuvenation of Existing Processes

June 25, 2024

Schedule :

- 10.00 am to 10.03 am : Commencement of the Event with Lamp lighting
- 10.03 am to 10.07 am : Introduction about Navosthan
- 10.07 am to 11.00 am : Keynote Address by Dean, RSE
- 11.00 am to 11.30 am : Address by Heads
- 11.30 am to 12.10 pm : Activity Time and Mentor Introduction

Event Coordinator
Mr. Ashutosh Pandey - M. 6393087688

Organized by :
Rai School of Engineering, Rai University, Ahmedabad

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The event was highly successful, with students praising Ms. Shaikh's practical tips and interactive Q&A session. The guidance on avoiding common pitfalls in GDs and Pls, along with the emphasis on professional presentation skills, greatly benefited the attendees. The session not only improved their understanding of the interview process but also enhanced their confidence and preparedness for future career and higher education opportunities.



Youth Parliament 2024: Voices of Tomorrow on August 12, 2024

On August 12th, 2024, the Rai University campus buzzed with youthful energy as the "Youth Parliament 2024: Voices of Tomorrow" event unfolded. Held in the Seminar Hall at 10:00 AM, the event coincided with International Youth Day, making it a powerful platform for young minds to take center stage.

Organized by the Rai School of Engineering in collaboration with Rai University's


Rai University
EVOLVING THINKING MINDS






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Internal Quality Assurance Cell, the event aimed to empower students and celebrate their potential to shape the future. Student coordinators Jagdeep Mohanty (8260811927) and Sugat Kumar (9304230065) worked tirelessly alongside faculty coordinator Dhruv B. Trivedi (dhruvtrivedi@raiuniversity.edu) to create a dynamic space for discourse.



Engineers Day On September 18, 2024

On 18th September 2024, Rai University's Engineering Department commemorated Engineers Day with a seminar themed "Engineering Solutions for a Sustainable World," celebrating the contributions of Sir Mokshagundam Visvesvaraya, India's eminent engineer and Bharat Ratna awardee. The program emphasized the vital role of engineers in promoting sustainability, resource efficiency, and resilience, shaping a greener future. With this objective, we were privileged to welcome Ms. Pratima Gupta, Senior Odoo

Developer at Odoo IN Pvt. Ltd., as the chief guest. Ms. Gupta highlighted innovative engineering solutions that contribute to sustainable development, including renewable energy systems, sustainable infrastructure, waste reduction techniques, and eco-friendly materials. She gave examples, such as using cow dung as an energy source, illustrating its potential to manage waste while reducing greenhouse gas emissions. Her talk offered valuable insights into how engineers can address today's environmental challenges through creative, sustainable practices.

Following Ms. Gupta's session, Prof. (Dr.) Sailesh Iyer, Dean of the Engineering Department, delivered a thought-provoking address on the unique mindset and problem-solving skills essential to the engineering profession. He highlighted real-world instances where engineering has driven societal progress and improved quality of life. The session concluded with an engaging Q&A, where students eagerly sought guidance on implementing sustainable practices in their future careers. This seminar, held in honor of Engineers Day, not only recognized the pivotal role engineers play in societal advancement but also inspired students to innovate responsibly, underscoring Rai University's commitment to empowering future leaders in sustainable development.





Techwar 2K24: A Grand Success at Rai University on September 26 to 28, 2024

Techwar 2K24, the flagship three-day tech fest organized by Rai University from September 26 to 28, was a resounding success, leaving a lasting impact on students and attendees alike. This dynamic event brought together a diverse group of students from colleges across the region, creating a unique platform to foster technical skill development, creativity, and collaboration. Designed to inspire and challenge, Techwar 2K24 set a new standard for university-level tech competitions.



Event Highlights:

- **Ten Competitive Events:** The fest featured a range of exciting events across various tech domains, including coding, robotics, artificial intelligence, cybersecurity, and digital creativity. Each event was carefully crafted to push participants' limits, nurturing problem-solving skills and creative thinking. Both beginner and advanced participants had the opportunity to showcase their skills, ensuring inclusivity and a robust competitive environment.
- **Cross-College Participation:** As a university-level flagship event, Techwar 2K24 attracted participants from multiple institutions, resulting in a vibrant and dynamic mix of perspectives. This diverse participation encouraged both healthy competition and a spirit of collaboration, as students exchanged ideas and formed connections across institutions.
- **Knowledge Sharing and Networking:** Techwar 2K24 went beyond the competitions, offering students the chance to engage in knowledge-sharing sessions and network with peers and industry enthusiasts. These interactions led to insightful discussions on emerging technology trends in fields like AI and robotics, sparking curiosity and inspiring innovative future projects.

· Showcasing Talent and Innovation: Rai University provided a platform where students could present their technical expertise, creativity, and innovative solutions. From tackling complex tech challenges to demonstrating creative coding and digital design skills, participants displayed an impressive array of talents to a supportive audience.

The event culminated in an awards ceremony celebrating winners who demonstrated exceptional skill, ingenuity, and dedication. Techwar 2K24 was more than just a competition; it was a celebration of learning, innovation, and community. Through this flagship event, Rai University reaffirmed its commitment to empowering the next generation of tech leaders, providing them with a platform to thrive, innovate, and shape the future of technology.



Plantation Drive: “Ek Ped Maa Ke Naam” on July 20, 2024

Rai School of Engineering, Rai University, observed a poignant environmental initiative, "Ek Ped Maa Ke Naam," on 20th July 2024. Students enthusiastically participated in a tree-planting ceremony, paying tribute to mothers while emphasizing the vital role of nature in nurturing life. This symbolic gesture underscored the importance of environmental conservation and encouraged students to take ownership of protecting the planet. By planting trees, the Rai University community reaffirmed its commitment to creating a sustainable, greener, and healthier future for generations to come.



Kargil Vijay Diwas on July 26, 2024

The event was marked by a series of activities that included a captivating documentary screening, thought-provoking speeches, and a spirited debate on the significance of the Kargil War. Students and faculty members actively participated in these activities, demonstrating their deep respect and gratitude for the brave soldiers who fought for the nation.

The event also served as a platform to instill a sense of patriotism and national pride



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They wore a smile and laid down their lives. A Salute to these gallant soldiers and their sacrifice. They are fallen but not forgotten...

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among the students. Through various interactive sessions, they were educated about the strategic importance of the Kargil region and the sacrifices made by the Indian Armed Forces.

The celebration concluded with a solemn tribute to the martyrs, where participants paid homage to their unwavering courage and supreme sacrifice. The event was a resounding success, leaving a lasting impact on the students and faculty members, inspiring them to uphold the values of patriotism and service to the nation.

World Wide Web Day on August 01, 2024

Celebrating World Wide Web Day! The web isn't just a network of machines; it's a bridge that connects people around the globe. Let's appreciate the power of the internet in bringing us closer.

On August 1st, Rai School of Engineering celebrated World Wide Web Day, commemorating the birth of the internet and its transformative impact on our lives. The event featured a range of activities, including web development workshops, cybersecurity seminars, and a captivating documentary on the history of the internet.

Students and faculty members engaged in thought-provoking discussions on the future of the web, its potential for innovation, and its ethical implications. A web design competition further ignited creativity and showcased the technical prowess of the participants. The celebration concluded with a sense of appreciation for the internet's power to connect people across the globe and drive progress in various fields.



Hariyali Teej Celebration on August 07, 2024

Hariyali Teej, a vibrant and cherished festival celebrated primarily in North India, marks the onset of the monsoon season and is a time of joy, devotion, and festivity. This year, the REET Cultural Club hosted an exciting festival at Rai University to honour the spirit of Hariyali Teej. Students of Rai School of Engineering participated in the ceremony, which took place on August 7, 2024, was a vibrant and energetic occasion that reflected the diversity of cultures and the energy of the university community.



The Hariyali Teej celebration commenced at 10:00 AM, with the REET Cultural Club that organized a number of events to uphold the festival's customs and promote a sense of camaraderie among attendees. The background in Dome area was adorned with vibrant decorations, including paper crafts and flowers setting a cheerful tone for the celebrations.

One of the main highlights of the celebration was the Mehndi competition. Participants displayed their artistic skills by applying intricate and beautiful designs of henna on their hands. In addition to the Mehndi competition, a Rakhi making contest was also held. Participants crafted Rakhis using a variety of materials, including beads, threads, and decorative embellishments.

The competitive events concluded with the announcement of winners for both the Mehndi and Rakhi making competitions. The judging panel, comprising Deans, selected the top three winners in each category based on creativity, skill, and adherence to traditional themes. In Mehndi Competition we awarded First Prize to Anushka, Second Prize to Gurvanshi and Third Prize to Anjali Chauhan. For Rakhi Making Competition, the First prize was announced to Chahna Sakariya, Second Prize to Purnima Mahto and the Third Prize to Anurag Shukla.

The celebration of Hariyali Teej at Rai University exemplified the institution's commitment to promoting cultural diversity and student engagement.



75th Van Mahotsav Ujjawani on August 07, 2024

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The celebration of Hariyali Teej at Rai University exemplified the institution's commitment to promoting cultural diversity and student engagement.



Rai University Celebrates Independence Day on August 15, 2024

Rai University proudly celebrated the 78th Independence Day with vibrant enthusiasm and deep patriotism. The day began with a solemn flag hoisting ceremony led by our esteemed Provost, Prof. (Dr.) Anil Tomar, including Prof. Deepesh Kumar Saxena, Registrar, and Mr. Lalit Adhikari, Admission Director, joined to mark this significant occasion.

Following the flag hoisting, our talented students showcased a captivating cultural program that highlighted the rich tapestry of Indian traditions. Performances included thought-provoking skits, patriotic songs, traditional dances, and engaging theme plays, all designed to reflect the country's diversity and unity.

The traditional dancers, adorned in colorful attire, brought to life various local customs and folklore, while the audience responded enthusiastically to the patriotic music, fostering a collective sense of pride. The creatively crafted plays emphasized themes of freedom, solidarity, and our shared responsibility to uphold the nation's values.

As the cultural event concluded, attendees left with a renewed commitment to honor our freedoms and uphold accountability. This celebration not only reflected on our country's history but also inspired a collective vision for a united and progressive future. At Rai University, we continue to embrace the spirit of Independence Day, reinforcing our dedication to making a positive impact on our nation.





Janmashtami Celebration on August 24, 2024

On August 24, 2024, Rai University celebrated Janmashtami with a series of exciting and culturally enriching events. The festivities provided a vibrant platform for students to showcase their talents while embracing Hindu traditions, infusing campus life with joy and festivity.

The highlight was the Matki Phod event, where enthusiastic teams formed human pyramids to break a hanging pot, symbolizing Lord Krishna's playful spirit. This energetic display fostered camaraderie and showcased collective effort.

A Best Costume Competition followed, with students dressed as Lord Krishna, Radha, and other mythological figures. Participants exhibited creativity and cultural understanding, embodying the festive spirit through their colorful attire.



Additionally, a Salad Making Competition encouraged students to showcase their culinary skills while emphasizing healthy eating. Inspired by themes from Lord Krishna's life, participants prepared visually appealing salads, promoting wellness in a fun and interactive manner.

The celebration concluded with traditional folk songs and dances, creating an atmosphere of joy and connection to India's cultural heritage. The event not only provided a welcome break from academic pressures but also fostered community building, leadership, and teamwork among students, making it a memorable celebration of Janmashtami.



National Sports Day on August 27 to 29, 2024

Rai school of engineering, Rai University recently hosted a vibrant and engaging three-day sports extravaganza to commemorate National Sports Day. Held from August 27th to 29th, 2024, the event kicked off at 9:30 AM on the university's sports ground.





The event was a celebration of sportsmanship, camaraderie, and physical fitness. It offered a diverse range of activities, catering to the interests of students from all backgrounds. From traditional Indian games like Gilli Danda to modern sports like Football and Volleyball, the event had something for everyone. The organizing committee meticulously planned the event, ensuring a smooth and enjoyable experience for all participants. The sports ground was transformed into a hub of athletic activity, with well-marked fields and courts for each sport. The vibrant atmosphere was further enhanced by the enthusiastic cheering from the sidelines.

The event not only provided an opportunity for students to showcase their athletic abilities but also fostered a sense of unity and teamwork. Students from different departments and years came together to form teams and compete against each other in friendly matches. The games were played with great enthusiasm and sportsmanship. Participants displayed exceptional skills, dedication, and a strong desire to win. The matches were closely contested, with each team striving to outdo the other. Beyond the competitive spirit, the event also emphasized the importance of fair play and respect for opponents. The participants displayed exemplary conduct, both on and off the field. The event served as a reminder that sports can be a powerful tool for character development and social cohesion. The three-day sports extravaganza concluded on a high note, leaving a lasting impression on all participants. The event not only celebrated National Sports Day but also reinforced the importance of physical activity and a healthy lifestyle. Rai University's commitment to promoting sports and wellness was evident in the successful organization of this event.

Hahakar Movie Pramotion on August 30, 2024

On 30th August 2024, Rai University hosted the promotional event for the movie Hahakar, a suspenseful drama about social justice and corruption. The event attracted a lively crowd of students, faculty, and local movie enthusiasts.

Key Highlights:

- **Film Screening:** Attendees watched an exclusive preview of Hahakar, directed by Amit Kapoor, starring Rajeev Kumar, Anjali Singh, and Vikrant Patel. The film captivated the audience with its intense plot and strong performances.
- **Interactive Session:** After the screening, the cast and crew engaged in a Q&A session, discussing the film's making, challenges, and behind-the-scenes stories.
- **Promotional Activities:** The event featured the unveiling of the official poster and teaser, along with a social media campaign to generate buzz. Hashtags like #HahakarMovie trended locally.
- **Cultural Performance:** Students performed a skit inspired by the film, adding a creative touch to the event.

The event was a great success, creating excitement around the movie and strengthening Rai University's reputation for supporting cultural and creative initiatives.



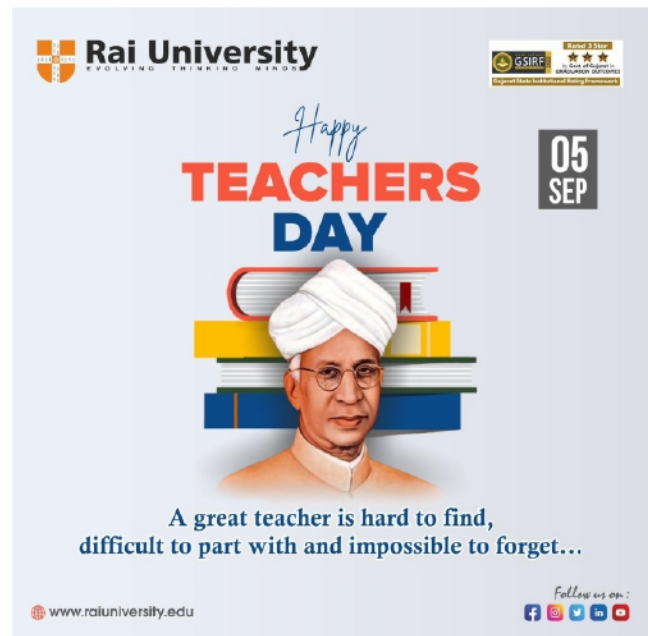
Teachers Day on September 05, 2024

Rai University celebrated Teacher's Day on 5th September 2024, honoring the invaluable contributions of educators. The event brought together students, faculty, and staff in a day of gratitude and celebration.

Key Highlights:

- **Inaugural Address:** The Vice Chancellor delivered a speech highlighting the importance of teachers in shaping students' futures.
- **Cultural Performances:** Students presented music, dance, and a skit, showcasing their appreciation for their teachers.
- **Awards & Recognition:** Faculty members were honoured with awards and certificates for excellence in teaching and service.
- **Interactive Session:** Students shared personal stories, expressing their gratitude for their teachers' guidance and support.
- **Tea Party:** The day concluded with a tea gathering, fostering a relaxed, community atmosphere.

The celebration successfully reinforced the strong bond between students and faculty, making it a memorable occasion for all.



Ganpati Festival on September 07, 2024

Rai University celebrated Ganesh Chaturthi with enthusiasm and devotion on 7th September 2024. The event, held on campus, brought together students, faculty, and staff for a day of cultural and spiritual celebration.

The festivities began with a traditional aarti and prayer ceremony, followed by performances showcasing classical dance, devotional songs, and music by students. The highlight of the event was a beautifully crafted eco-friendly Ganesh idol, made from biodegradable materials, in line with the university's commitment to sustainability.

Prasad, including Lord Ganesha's favourite sweet modaks, was distributed to all attendees, fostering a sense of unity and community. The celebration also featured eco-friendly decorations and waste management practices, promoting environmental responsibility.

Overall, the Ganesh Chaturthi celebration at Rai University was a successful blend of cultural richness, devotion, and sustainability, leaving a positive impact on all participants.



FACULTY ARTICLES

Mr. Dhruv B. Trivedi

Co-Coordinator IQAC,
Assistant Professor,
Rai School of Engineering,
Rai University, Ahmedabad



1) Student-Centric Approaches: The Heart of Quality Education

Today, educational models are increasingly student-centric, placing the needs, interests, and growth of students at the forefront. Quality education now extends beyond mere content delivery, focusing on creating environments where students actively engage, think critically, and build skills needed for real-world challenges. This shift aligns with the mission of the Internal Quality Assurance Cell (IQAC) and the standards of the National Assessment and Accreditation Council (NAAC), which emphasize continuous quality improvement.

What is Student-Centric Education?

Student-centric education shapes the learning experience around students' needs rather than traditional, lecture-based methods. It promotes active participation through methods like experiential learning, project-based learning, flipped classrooms, and personalized learning, all of which foster deeper engagement and independent thinking.

Key Elements of Student-Centric Approaches

1. **Experiential Learning:** Practical experiences—internships, lab experiments, and real-world projects—allow students to apply theoretical knowledge directly, bridging the gap between classroom learning and real-world skills.
2. **Project-Based Learning:** Engaging students in real-world projects or problem-solving activities encourages critical thinking, collaboration, and resilience, skills essential for professional life.
3. **Flipped Classrooms:** This model lets students review learning materials at home and use classroom time for discussions or hands-on activities, making them active participants and deepening comprehension.
4. **Personalized Learning Paths:** By tailoring content to individual learning styles and paces, personalized learning keeps students motivated and challenges them appropriately.
5. **Peer-to-Peer Learning:** Collaborative activities like group projects and peer reviews enhance understanding and communication skills, as students share perspectives and learn from each other.



The Role of IQAC in Student-Centric Learning

IQAC supports student-centric education by fostering a feedback-rich environment where student needs drive improvements. IQAC's continuous quality efforts help ensure that teaching practices evolve to meet student expectations, encouraging approaches that make learning responsive and dynamic.

Aligning with NAAC Criteria

NAAC accreditation emphasizes student-centered learning, urging institutions to create inclusive, supportive environments with research opportunities and practical applications. This alignment ensures that institutions meet high standards, reflecting a commitment to student success.

Benefits of a Student-Centric Approach

1. **Higher Engagement and Retention:** Interactive learning fosters enthusiasm, often leading to better performance and satisfaction.
2. **Enhanced Skill Development:** Skills like critical thinking and communication are central to student-centered education, preparing students for diverse professional paths.
3. **Lifelong Learning:** Active involvement in education fosters self-directed learning, inspiring students to seek knowledge continually.

Conclusion

Student-centric education lies at the heart of quality learning. By focusing on student needs, institutions create engaging environments that produce well-rounded, adaptable graduates. With support from IQAC and alignment with NAAC standards, student-centered methods are shaping the future of education, helping students become lifelong learners and leaders in their field.

Meet Bakotia

Co-coordinator IQAC,
Assistant Professor,
Rai School of Engineering,
Rai University, Ahmedabad

**Mumbai Metro Aqua Line: A Technological Leap and Game Changer for India**

Mumbai's Metro Aqua Line, also referred to as Line 3 or the Colaba-Bandra-SEEPZ corridor, spans approximately 33.5 kilometres, marks a major leap in India's urban transit infrastructure. It covers 27 stations including Cuffe Parade, Church gate, Mumbai Central, Worli, Dharavi, Bandra-Kurla Complex (BKC), Domestic Airport (Santa Cruz), International Airport (Sahar) and SEEPZ (Santa Cruz Electronics Export Processing Zone). As the country's first entirely underground metro line, it is poised to redefine commuting in Mumbai, significantly easing congestion in one of India's busiest cities. This ambitious line is a flagship component of the Mumbai Metro project and represents an essential advancement that combines innovative engineering with sustainable solutions, setting new standards for public transportation in India.

Innovative Technology and Engineering

The Aqua Line is equipped with cutting-edge technology, highlighting India's advancements in engineering and construction. A core aspect of its development is the use of sophisticated Tunnel Boring Machines (TBMs), which allow construction to progress underground without significantly disturbing the city's surface activity. Enhanced safety and communication systems, such as Platform Screen Doors (PSDs), have been incorporated to ensure passenger safety, reduce accident risks, and maintain efficient climate control at stations.

Moreover, the Aqua Line employs high-level automation in its operations. From advanced signalling to automated train control, each element is designed to maximize efficiency and safety. A centralized Operation Control Centre (OCC) oversees the entire network, enabling real-time monitoring and swift response to any incidents. This level of digital integration positions the Aqua Line as a highly modernized transport system, comparable to top-tier metros around the globe.

Environmental Responsibility

Fully powered by electricity, the Aqua Line is a positive step toward lowering Mumbai's carbon emissions, aligning with India's broader environmental goals. By facilitating a shift from personal vehicles to a rapid transit system, it aims to mitigate air pollution and reduce greenhouse gas emissions in the city. The line's sustainable design features, including energy-efficient lighting, regenerative braking, and optimized ventilation, underscore its commitment to reducing

Economic and Social Impact

The Aqua Line is expected to fuel Mumbai's economy by providing a quick, dependable, and affordable transport solution. By connecting major commercial zones like the Bandra-Kurla Complex (BKC) and SEEPZ, it enables greater accessibility to economic hubs and boosts productivity. The construction and operation of the line have generated thousands of jobs, further benefiting the city's economy. By reducing travel time and enhancing connectivity, the Aqua Line is set to elevate quality of life, enabling a better work-life balance for residents and easing the challenges of urban commuting.

Overcoming Challenges

Despite its substantial benefits, the Aqua Line has faced challenges, from land acquisition delays and environmental concerns to disruptions caused by the COVID-19 pandemic. However, with these challenges largely overcome, the Aqua Line is on track to become an exemplary model of sustainable urban transportation in India.

Conclusion

The Mumbai Metro Aqua Line represents not only a technological achievement but also a catalyst for positive change in Mumbai's public transport landscape. As India embraces this new era of urban mobility, the Aqua Line stands as a symbol of progress, promising enhanced connectivity, economic stimulation, and a blueprint for future advancements in mass transit across the country. This metro line is more than a transportation solution—it is a transformative step forward, embodying India's commitment to sustainable urban development.

Ajay Thori

Assistant Professor,
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**Bengaluru's Traffic Congestion: A Growing Challenge for Residents**

Bengaluru, once known as the Silicon Valley of India, has in recent years become infamous for its ever-worsening traffic congestion. The city's population explosion, rapid urbanization, and lack of robust public infrastructure have combined to create a nightmare for commuters. The average time spent in traffic has reached alarming levels, with residents spending hours in their vehicles, impacting their productivity, health, and overall quality of life.

The root cause of Bengaluru's traffic woes is multifaceted. The city's infrastructure, which was designed for a smaller population, has struggled to keep up with the exponential increase in vehicles. Inadequate public transportation, coupled with the growing reliance on personal vehicles, has only exacerbated the situation. Additionally, the influx of people seeking employment in the city has created a mismatch between available road space and the demand for it.

The Karnataka state and central governments have recognized the gravity of the problem and have undertaken several measures to alleviate the congestion. Projects like the Namma Metro expansion and the Peripheral Ring Road aim to provide alternative modes of transport and reduce dependence on roadways. Flyovers, underpasses, and road widening projects have been initiated to streamline traffic flow, while the Bengaluru Traffic Police are actively enforcing rules to curb road accidents and reduce bottlenecks.

However, while these measures provide short-term relief, they do not address the root causes of congestion. A more innovative approach is needed to bring long-term solutions. One such idea is the promotion of carpooling and shared mobility, reducing the number of vehicles on the road. The implementation of intelligent traffic management systems, using AI and data analytics, can help optimize traffic flow, predict congestion, and redirect traffic accordingly. The development of more pedestrian-friendly zones and cycling lanes will encourage people to use alternate modes of transport, further reducing traffic pressure. Furthermore, promoting remote work and flexible working hours can help in decongesting peak-hour traffic.

In conclusion, Bengaluru's traffic congestion is a complex issue that requires a multi-pronged solution. While governmental efforts are underway, the active participation of citizens, along with innovative technological and infrastructural advancements, holds the key to easing the city's traffic woes and ensuring a smoother and more efficient commuting experience for its residents.environmental impact.

Sourabh Sahu

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Rai School of Engineering,
Rai University



The Impact of AI and Machine Learning on IT

The impact of AI (Artificial Intelligence) and Machine Learning (ML) on Information Technology (IT) has been profound and transformative, reshaping the industry in several ways. These technologies have unlocked new opportunities for innovation, automation, optimization, and decision-making. Below are some of the key areas in which AI and ML have impacted IT:

1. Automation of IT Operations

- **Automation of Repetitive Tasks:** AI and ML can automate routine IT tasks such as system monitoring, log analysis, patch management, and software updates, freeing up IT staff to focus on more strategic tasks. For example, AI-powered tools like AIOps (Artificial Intelligence for IT Operations) help detect and resolve issues automatically in real-time, reducing the need for human intervention.
- **Predictive Maintenance:** Machine learning algorithms can analyze data from hardware and software systems to predict failures or performance degradation before they occur, allowing for proactive maintenance.

2. Enhanced Cybersecurity

- **Threat Detection and Response:** AI and ML are used to detect anomalies and patterns in network traffic or system behavior, enabling faster identification of cyber threats, such as malware or unusual access attempts. AI-driven security solutions, like behavioral analytics, can continuously learn from historical data and improve threat detection accuracy over time.



Automated Incident Response: In the event of a security breach, AI can automate responses (e.g., blocking suspicious IP addresses or isolating infected devices) to minimize the damage while alerting IT staff for further investigation.

3. Data Management and Analytics

- **Data Insights and Predictive Analytics:** AI and ML are widely used to analyze vast amounts of data to extract actionable insights. For instance, ML algorithms can identify patterns and trends in customer behavior, operational data, or system performance, which helps organizations make data-driven decisions.
- **Data Quality and Cleansing:** Machine learning can also be used to clean and normalize data by identifying errors, inconsistencies, and missing values, improving the overall quality of data for analytics and reporting purposes.

4. Cloud Computing and Virtualization

- **AI-Driven Cloud Optimization:** Machine learning algorithms can be used to optimize cloud resource allocation, ensuring efficient use of infrastructure. For example, AI can analyze workload patterns and adjust resource provisioning in real-time to minimize costs and improve performance.
- **Intelligent Virtualization:** AI is also being used to optimize virtual machine (VM) management and container orchestration. AI-based systems can automatically scale virtualized resources and manage workloads based on demand, ensuring optimal performance and cost-efficiency.

5. Natural Language Processing (NLP)

- **AI-Driven Language Understanding:** NLP technologies powered by machine learning have improved the ability of IT systems to understand and process human language. This is beneficial in applications like search engines, voice assistants, chatbots, and document management systems.
- **Knowledge Management:** NLP and AI are helping IT organizations manage and retrieve vast amounts of unstructured data (e.g., emails, documents, chat logs) more efficiently, enabling better knowledge sharing and decision-making.

6. Digital Transformation

- **Acceleration of Digital Transformation:** AI and ML are central to the ongoing digital transformation efforts within organizations. By enabling automation, smarter decision-making, and more efficient operations, these technologies are empowering IT departments to lead their organizations through transformation, whether it's migrating to the cloud, adopting new business models, or integrating new technologies like IoT.



Challenges and Considerations

While the impact of AI and ML on IT is largely positive, there are challenges to consider:

- **Data Privacy and Security:** The use of AI and ML often requires large volumes of data, which raises concerns about data privacy, especially in industries like healthcare and finance.
- **Bias and Fairness:** Machine learning models can inherit biases from the data they are trained on, leading to skewed results and decisions. It's crucial for organizations to ensure fairness and transparency in AI systems.
- **Skills Gap:** The increasing reliance on AI and ML creates a demand for specialized skills in data science, machine learning, and AI engineering, which may outpace the available talent pool.

Conclusion

AI and machine learning are revolutionizing IT by enabling automation, enhancing decision-making, improving cybersecurity, and fostering innovation. As AI technologies continue to advance, they will become even more embedded in IT infrastructure, making businesses more agile, efficient, and competitive. However, organizations must address the challenges of data privacy, model bias, and skills development to fully realize the potential of AI in IT.

STUDENT'S ARTICLES

Charm Hirpara

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HUMANS WITH AI

Artificial intelligence (AI) is a vast technology used in the education sector. Several types of AI technology are used in education. Majorly includes learning management systems, Transcription of faculty lectures, enhance online discussion boards, analyzing student success matrix, and academic research. Nowadays education technology companies(ED Tech) are deploying emotional AI to quantify social and emotional learning. Artificial Intelligence, affective competitive methods and machine learning are correctively called emotional AI. Artificial intelligence shapes our future more powerful than any other century's invention. Anyone who does not understand it will soon feel left behind. Wake Up in a world full of technology that feels more and more like magic.

Is AI really needed a human society? It depends. If Human opts for a faster and effective way to complete their work and to work constantly without taking the break, Yes, it is. However, if humankind is satisfied with natural way of living without excessive desires to conquer the order of nature, it is not. History tells us that human is always looking for something faster, easier, more effective, and convenient to finish the task they work on; We enjoy a much easier and more leisurely life today all because of the contribution of Technology. The Human Society has been using the tools since the beginning of civilization and human progress depends on it.

Doshi Viveksh R

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How Gen Z Can Drive Political Change in India Through Active Participation and Electoral Involvement

India's political landscape is evolving, with a growing demand for fresh ideas, innovative solutions, and a more inclusive approach to governance. Gen Z, defined as those born roughly between the late 1990s and early 2010s,

is stepping up as an influential demographic eager to create meaningful change. This generation, known for its global awareness, technological adeptness, and values-driven perspective, has immense potential to reshape India's political system by actively participating in politics and even standing for elections. By embracing civic responsibility and championing causes they believe in, Gen Z can bring about a more responsive, transparent, and progressive political environment in India. Tools since the beginning of civilization and human progress depends on it.

Why Gen Z Matters in Politics

With nearly 40% of India's population under the age of 25, Gen Z represents a powerful voting bloc that can no longer be overlooked. Their unique blend of digital literacy and social consciousness positions them to challenge outdated practices and push for policies that reflect the concerns of younger generations, such as climate change, economic stability, gender equality, and education reform. Unlike previous generations, Gen Z has been exposed to global issues from an early age and has grown up with instant access to information and communication tools. This has instilled in them a deep understanding of both local and international issues, a willingness to question authority, and a drive to advocate for progressive changes.

Steps for Gen Z to Engage Politically

Awareness and Education: The first step towards political change is understanding the issues. Gen Z can make a difference by staying informed about political processes, policy decisions, and pressing issues at both local and national levels. Social media platforms can be used effectively to spread awareness, engage in discussions, and educate peers on the importance of voting and civic participation.

Grassroots Involvement: Gen Z can start by getting involved in community initiatives, working with non-profits, or volunteering for causes they believe in. This exposure to on-the-ground issues will help them understand the challenges faced by citizens and prepare them for a career in politics if they choose that path.

Voting and Mobilizing Peers: By participating in elections and encouraging others to do the same, Gen Z can influence electoral outcomes. Mobilizing fellow young voters through social media, campus campaigns, and local events can significantly impact voter turnout and bring about a leadership that reflects their values.

Running for Office: Gen Z members can contest local elections, such as those for municipal bodies or panchayats, to bring about direct change. Even in these early stages, they can implement policies that address issues pertinent to their communities, setting the foundation for future political careers.



Inspiring Examples of Young Politicians in India

Several young leaders in India are already demonstrating how new ideas and youthful energy can create a positive impact. These leaders, from different political parties, provide inspiration and valuable insights into how Gen Z can contribute meaningfully to politics.

Chirag Paswan (Lok Janshakti Party): As a young leader, Chirag Paswan has worked to modernize the Lok Janshakti Party and address issues relevant to youth and marginalized communities. Known for his focus on employment generation and social justice, Paswan has advocated for policies to support job creation, especially in his home state of Bihar, where migration for employment is a major issue.

Tejasvi Surya (Bharatiya Janata Party): Representing Bangalore South, Tejasvi Surya has been vocal about digital reforms, youth empowerment, and tackling corruption. As one of the youngest MPs in India, Surya is a staunch advocate for technology-driven governance and has actively campaigned for a corruption-free government that is accountable to the people. His work resonates with Gen Z, as he often leverages social media to connect with young voters and mobilize support for technology and education reforms.

Aaditya Thackeray (Shiv Sena): Aaditya Thackeray's work in Maharashtra reflects a strong commitment to environmental conservation and urban development. As a cabinet minister, he has championed policies to promote sustainable urban planning, environmental protection, and public infrastructure. His initiatives include the Maharashtra Electric Vehicle Policy, which encourages eco-friendly transportation, and the Mumbai Climate Action Plan, which addresses climate resilience in the city. His work exemplifies how young politicians can bring forward-focused, sustainable ideas to the forefront of Indian politics.

How Gen Z Can Make a Lasting Impact

By learning from these young leaders and taking an active role in politics, Gen Z has the potential to address issues that have long been ignored or inadequately managed. They can champion policies that address climate change, promote digital literacy, create employment opportunities, and foster social justice. This generation has the tools, the knowledge, and the drive to advocate for transparency and accountability, holding elected officials responsible for their actions.

Furthermore, Gen Z's digital skills can revolutionize campaign strategies, utilizing social media platforms, data analytics, and online organizing tools to engage voters like never before. They can create a new narrative around politics, making it accessible, transparent, and appealing to other young citizens.



Conclusion

Gen Z's entry into India's political sphere has the potential to be transformative, bringing fresh perspectives and innovative solutions to longstanding issues. By participating in the political process, running for office, and inspiring their peers to be civically engaged, Gen Z can shape a more progressive and equitable India. As they rise to positions of influence, Gen Z will not only challenge the status quo but also build a political system that reflects the values and aspirations of a new generation. India's future lies in the hands of its youth, and with their energy, passion, and resilience, Gen Z can be the driving force behind positive political change.

Kalal Dharmishth Prakash

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How Trump's Presidency Could Reshape the Global Landscape

The presidency of Donald Trump, which began in 2016-17 after his victory over Hillary Clinton, marked a transformative period in global politics, as his "America First" policy redefined international relations. After a loss in the 2020 election to Joe Biden, Trump can be re-elected in 2024, defeating the democrats by a significant margin. His return to office signals a potential continuation of his strategic approach to foreign policy, with notable implications for countries like India and Israel and challenging dynamics for China.

Impact on India: A Strengthened Strategic Partnership

During his initial presidency, U.S.-India relations saw a marked increase in alignment on security, economic policies, and shared concerns over China's influence in the Indo-Pacific region. Trump's administration facilitated major U.S.-India defence agreements, supplying advanced military technology and equipment. This enhanced India's defence capabilities and bolstered security along its northern borders, aligning with India's goals to counter regional challenges.

Trump's diplomatic approach also supported India's sovereignty on contentious issues like Kashmir, respecting India's internal policies and reinforcing bilateral trust. Economic measures during his tenure aimed to increase U.S.-India trade, reduce India's reliance on Chinese imports, and promote economic growth. If Trump assumes office once again in 2024, these efforts are likely to see renewed focus, further strengthening India's position as a regional power and balancing Asian power dynamics.

Benefits for Israel: A Robust Alliance



position on the global stage. His administration's support for the Abraham Accords helped Israel normalize relations with the UAE, Bahrain, and other Arab nations, opening doors for trade, tourism, and diplomacy while fostering stability in a historically volatile region.

Trump's policy toward Iran, including his withdrawal from the Iran Nuclear Deal and re-imposition of sanctions, aligned with Israel's security interests. This approach weakened Iran's influence in the region, reduced support for anti-Israel groups, and helped strengthen Israel's strategic ties with neighbouring states. If Trump returns, this could lead to continued support for Israel's security initiatives, fostering both economic opportunities and geopolitical stability in the Middle East.

Challenges for China: Trade Wars and Strategic Rivalries

While Trump's foreign policy created opportunities for allies like India and Israel, it introduced challenges for China, particularly through the U.S.-China trade war and heightened scrutiny of Chinese technology. Trump's initial administration imposed tariffs on Chinese goods, aiming to reduce the U.S. trade deficit and shift manufacturing back to the United States. These tariffs pressured China's economy, creating ripple effects across global markets and impacting supply chains.

Additionally, Trump's administration restricted Chinese technology companies like Huawei and TikTok, citing national security risks. These actions set a global precedent for scrutinizing Chinese tech influence, encouraging other nations to evaluate their relationships with Chinese firms. By limiting China's access to vital technologies like semiconductors, Trump's policies challenged China's ambitions in advanced technology and underscored a shift toward self-reliance and diversified supply chains globally.

Global Impact and the Shift in Power Dynamics

Trump's strategies reshaped the global power balance, promoting a multipolar world and reducing dependency on China for global trade. By nurturing partnerships with India and Israel and encouraging countries to reconsider supply chain reliance on China, Trump's policies laid the groundwork for a more balanced international framework. This shift has encouraged countries worldwide to prioritize self-sufficiency, transforming global trade and nurturing regional partnerships that reduce China's central influence.

**Conclusion**

Donald Trump's presidency, spanning two non-consecutive terms, has had a profound impact on global politics. His policies bolstered alliances with countries like India and Israel, promoted economic self-reliance, and created challenges for China's economic and technological ambitions. As Trump returns to office, his influence will continue shaping the international landscape, creating opportunities for allies and challenging rivals, thereby leaving a lasting mark on global affairs.

FACULTY ACHIEVEMENT

Prof. (Dr.) Sailesh Iyer

Professor and Dean, CSE/IT Department,
Rai School of Engineering President,
RU IIC and RU Nodal Officer-GSIRF.



Dr. Sailesh Iyer has successfully participated as the member of advisory committee in the 4th International Conference on Data Science and Big Data Analytics (IDBA-2024), organized by School of Computer Science and Information Technology & School of Data Science, SUAS Indore and technically associated with UNESCO Chair on Secure High Performance Computing for Higher Education and Research Namibia University of Science and Technology held during 12th – 13th July, 2024..



To Whom So Ever It May Concern

This is to certify that Dr. Sailesh S Iyer, Professor and Dean, Rai University, Saroda Village, Taluka Dastika, Ahmedabad, rendered his/her valuable services as a resource person in the UGC Sponsored 1st online Refresher Course in Education (01/08/2024 to 14/08/2024) for University and College Professors. She has developed an e-content in 4-quadrants.

The detail of the e-content(s) module is as below:

Date	Title of the E-content Module
08/08/2024	ICT Tools for Research (Session 1& 2)

I, on behalf of UGC- Malaviya Mission Teacher Training Centre (UGC-MTRTC) of Gujarat University, thank you for your valuable contribution in the national level online UGC sponsored course.


Dr. Jagdish S. Joshi
Professor, Director,
UGC-MTRTC, Gujarat University,
Ahmedabad

Dr. Sailesh Iyer, has rendered his valuable services as a resource person in the UGC Sponsored 1st online Refresher Course in Education (01/08/2024 to 14/08/2024) for University and College Professors. He has developed an e-content in 4-quadrants too.

He is co-supervising Dr. Udit Mamodiya (Associate Professor and Associate Dean (Research) Department of Electronics and Electrical Engineering, Poornima University, Jaipur, Rajasthan) in his one year post-doctoral research work.



Ref : SIT - Dr Sivanesan / Power & Energy Lab / Postdoc / 2024 / 7 J
23 Sep 2024

Dr. Abhijeetsinh Jadeja
Principal and Professor of Dept. of Computer Science
Shri C. J. Patel College of Computer Studies
Sankalchand Patel University, INDIA
Email: abhijeet@highereducation@gmail.com

Dear Candidate,

We are pleased to supervise you as a Post doctoral Researcher for a one-year term.

Duration: 30 Sep 2024 – 29 Sep 2025
Supervisor: Prof. Sivanesan Rupa Krishnan, Singapore Institute of Technology, SINGAPORE
Co-Supervisor 1: Prof. Sailesh Suryanarayan Iyer, Professor and Dean, RAI School of Engineering, RAI University, INDIA
Co-Supervisor 2: Prof. Prasan Chakrabarti, Director - Research and Dean International Affairs and Senior Professor, Department of Computer Science and Engineering, Sri Padmangot Singhania University, INDIA

Topic: Leveraging Innovation and Artificial Intelligence for Adaptive Learning

As part of the postdoc completion requirement, you will need to publish at least one SCI journal.

Thank you.

Yours sincerely



Dr. Sivanesan, CEng, SMIEEE, MBET
Associate Professor
Engineering Cluster
Singapore Institute of Technology
Tel: (65) 62001053
Email: sivanesan@singaporetech.edu.sg

Dr.Sailesh Iyer has successfully published a patent, the design being entitled as “Artificial Intelligence based system for remote health monitoring of elderly patients”.



Ref : Udit_Mamodiya / PhD / 2024-25 / R03Q

Date : September 24, 2024

To:
Dr. Udit Mamodiya
Associate Professor & Associate Dean (Research)
Faculty of Engineering and Technology
Department of Electrical and Electronics Engineering
Poornima University, Jaipur, Rajasthan, INDIA
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Dear Dr Udit,

Congratulations. You can pursue one year Post-doctoral Research work in 2024-25. Please note -

Duration - September 30, 2024 - September 29, 2025

Guide / Supervisor - Prof. Dr. Martin Margala, Director of School of Computing and Informatics, University of Louisiana at Lafayette, USA

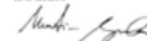
Co-Supervisor 1 - Prof. Sailesh Suryanarayan Iyer, Professor and Dean, RAI School of Engineering, RAI University, INDIA. Email - sailesh@raiuniversity.edu, sailesh@raiuniversity.edu

Co-Supervisor 2 - Prof. Prasan Chakrabarti, Director - Research and Dean International Affairs and Senior Professor, Department of Computer Science and Engineering, Sri Padmangot Singhania University, INDIA. Email - prasan@raiuniversity.edu

Topic - Improving the Efficiency of Solar Photo-voltaic Power Plants through Intelligent Energy Management and IoT-Enabled Data Analysis

You need to publish at least one SCIE/ISI and/or ACM with to APC charged journal paper in order to complete the postdoctoral program.

Best wishes



Prof. Dr. Martin Margala
PhD, SMIEEE, SACMCM, SURVE, MANGEL, MAAAS
Endowed Chair of Computer Science and Endowed Scholar
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Dr.Sailesh Iyer is co-supervising Dr. Abhijeetsinh Jadeja (Principal and Professor of Department of Computer Science, Shri C. J. Patel College of Computer Studies, Sankalchand Patel University, India) in his one year post-doctoral research work.



Ms. Poonam Chakravarty

Qualification: M.E. (IT), Ph.D. Pursuing (IoT)
Assistant Professor & Head
Department of CSE/IT,
Rai School of Engineering,
Rai University.



Poonam Chakravarty (HOD) participated in the Faculty Development Program (FDP) on Qualitative and Quantitative Research Design in Higher Education. The program provided valuable insights into research methodologies, covering both qualitative approaches like case studies and interviews, as well as quantitative methods such as surveys and statistical analysis. She gained practical skills in data analysis tools (SPSS, R) and ethical considerations in research. This experience will help her guide faculty in designing robust research studies and enhance the research culture within the department.



Poonam Chakravarty (HOD) participated in the International Workshop on Research Manuscript Drafting and Patent Filing Process (WORDP), which provided essential guidance on preparing high-quality research manuscripts and navigating the patent filing process. The workshop covered key aspects of academic writing, including structuring research papers for publication, improving clarity, and addressing

common pitfalls. Additionally, experts shared insights into the patent filing process, highlighting legal, procedural, and technical aspects of protecting intellectual property. This experience enhanced her understanding of research dissemination and innovation protection, which will be beneficial for both her academic work and mentoring faculty members.

Poonam Chakravarty from Rai University participated in the Faculty Development Program (FDP) on Effective Manuscript Drafting and Publication in Peer-Reviewed International Journals. The program focused on key aspects of academic writing, manuscript structuring, and navigating the publication process in high-impact journals. Poonam actively engaged in the sessions and applied the insights gained to her own research. In recognition of her dedication and progress, she was presented with a Certificate of Appreciation for her outstanding participation. This achievement will further enhance her ability to publish in renowned international journals, contributing to academic excellence at Rai University.



Poonam Chakravarty of Rai University participated in the 17th International Workshop on Research Method and Methodology (WORM 17.0), which focused on advanced research methods and methodologies. The workshop provided valuable insights into both qualitative and quantitative research techniques, data analysis tools, and the importance of rigorous methodology in academic research. Poonam demonstrated exceptional engagement

and applied the knowledge gained during the workshop to enhance her research practices. In recognition of her active participation and commitment to academic growth, she was presented with a Certificate of Appreciation. This achievement reflects her dedication to continuous learning and contribution to the research culture at Rai University.

Poonam Chakravarty, a faculty member of Rai University, was awarded a Certificate of Appreciation for her active participation in the Faculty Development Program on Qualitative and Quantitative Research Design in Higher Education, held from 12th to 21st September. The program aimed to enhance research skills and provided insights into both qualitative and quantitative methodologies applicable to higher education. Poonam's engagement in this program reflects her commitment to academic growth and continuous professional development. The certificate acknowledges her dedication to improving research competencies and contributing to the university's academic environment.



Mr. Meet Bakotia

Qualification: Masters of Engineering (Machine Design)
Co-coordinator IQAC,
Assistant Professor,
Department of Mechanical Engineering,
Rai School of Engineering,
Rai University.



Meet Bakotia, Assistant Professor in Mechanical Engineering, Rai School of Engineering, Rai University has published paper in scopus journal: Paper titled : Optimization of Gear Tooth Geometry for Compact Design and Enhanced Beam Strength in [Journal of Computational Analysis and Applications \(JoCAAA\)](https://eudoxuspress.com/index.php/pub/article/view/779) Vol. 33 No. 4 (2024) pages 328–338, ISSN numbers 1521 - 1398 and 1572 - 9206 Q4 Journal in SCImago Rank (SJR), UGC Listed <https://eudoxuspress.com/index.php/pub/article/view/779>

Journal of Computational Analysis and Applications

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Optimization of Gear Tooth Geometry for Compact Design and Enhanced Beam Strength

Meet Bakotia

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ABSTRACT

A critical piece of configuration is settling on OK and ideal boundary decisions, as cog wheels with not many tooth have inadequate conveying limit and unfortunate cross section execution. With an end goal to resolve this issue, we inferred the pressure condition for gear matches with not many tooth and found that pitting on the reaching surface is the transcendent disappointment system of cog wheels with not many tooth. Strength testing likewise affirmed the discoveries of the hypothetical review. The creators presented a clever boundary streamlining approach that limits contact pressure by expecting that the pinion and stuff tooth roots have an indistinguishable bowing weariness life. The hereditary calculation effectively tackled the issue, yielding plan boundaries that are inside decent cutoff points. Using limited component examination, we had the option to verify that the proposed approach essentially further developed the lattice execution and conveying limit of stuff matches with somewhat couple of tooth. Research introduced in this article major areas of strength for offers for drives to additionally promote gear transmissions with a couple of tooth.

Keywords: Gear, toothed gear, strength test, parameter optimization, failure analysis

STUDENTS ACHIEVEMENTS

TechWAR 2024 Winners

Activities	Winners
1. Scientific Rangoli	Group:1: Priya Sana, Natasha, Sajana Panchal Group:2: Sanjana Mukharjee Group:3: Pushkar Singh, Poornima Mahota
2. Innovative Display	Group: 1: Charm Hirpana, Senty Pandey
3. Tech Talks	·Mahir Patel ·Jagdeep Mohanty ·Priyasha Yadav
4. Placement Hunt	·Priyasha Yadav ·Krutagya Keneria ·Mahir Patel
5. Tech Cinema	Kirtan Panchal, Henil Patel, Rudra Pandya, Harsh Tiwari, Mehul, Krunal, Meet
6. Tech Prototype	Group:1: Jevan Kadam, Nagesh Jagtap, Mayur Wayken Group:2: Mayuri Nakum Group:3: Roshan Patel, Sakshi, Jainam Patel, Parmar Jainam
7. Innovator Frame	Group:1: Ayushman Soni, Adarsh Parmar, Varun Yadav, Swastik Khalue Group:2: Khushi Kanam, Poornima Mahota Group:3: Ishita Nareshbhai, Urshavi royabhai, Malewiya Mita
8. Puzzle Path	Group:1: Lucki Whar, Tanya Panchal, Zuveniya Khan, Kartikey Sen, Swara Khristi Group:2: Harsh Pariya, Ronak Molam, Hritik Rajput, Anmol Sinha, Pranav Badgujar Group:3: Gupta Pranjal, Inkal Kothari, Varun Chauhan, Vaishil Oza, Sahaj Rajpurohit
9. Idea Pitching	Group:1: Ayushman Soni, Varun Yadav, Swastik Khatua, Suman Yadav Group:2: Parth Gondaliya Group:3: Mahir Patel, Shivam Negi, Mohit Soni, Garvit Trivedi
10. Mind Mechanic	Group:1: Saanvi Kumbhare, Banshi Karena Group:2: Mahir Patel & team Group:3: Charm Hirpana & team

Event Coordinator's Take on TechWar-2K24

As the Event Coordinator for TechWar 2K24, it has been a profoundly rewarding experience to witness the enthusiasm, innovation, and dedication of the participating students. This three-day event at Rai University was not just a platform for competitions but a celebration of the talent and creativity of young minds from various colleges.

The meticulous planning and teamwork from both the organizing committee and volunteers ensured the seamless execution of ten diverse events, each crafted to challenge and inspire the participants. From engaging in intense coding challenges to showcasing ground breaking ideas in AI and robotics, the students demonstrated exceptional skills and a thirst for learning.

The event also fostered meaningful networking opportunities, allowing participants to exchange ideas and perspectives, creating an environment of collaboration and growth. As a coordinator, I am proud of the transformative impact TechWar 2K24 has had on everyone involved.

I would like to thank the Provost Prof. (Dr.) Anil Tomar for motivation and approval for organizing this event. I would also like to express my profound gratitude to Prof. (Dr.) Sailesh Iyer, Dean, RSE for mentoring and guidance throughout the event.

On behalf of the organizing team, I extend heartfelt thanks to all the students, faculty, and participants who made this event a success. Your energy and commitment were instrumental in bringing this vision to life. TechWar 2K24 stands as a testament to Rai University's commitment to nurturing the next generation of tech leaders. Thank you for being part of this remarkable journey.



Faculty Coordinator

Ms. Megha Sankhala

Assistant Professor
Rai School of Engineering



Student Coordinator

Harsh Tiwari

B.Tech CSE,
Sem-3



Student Coordinator

Jagdeep Mohanthy

B.Tech CSE,
Sem-3



Student Coordinator

Abhishek Sharma

B.Tech CSE,
Sem-3

(1) Senty Pandey a student of Bachelor of Computer Applications, Semester 3, Rai School of Engineering, Rai University, has successfully completed a training programme on Cyber Security and has been found competent by MOODINDIGO, IIT BOMBAY, the annual fest of IIT Bombay and a kaleidoscope of emotions, memories, and boundless creativity.



(2) Senty Pandey a student of Bachelor of Computer Applications, Rai School of Engineering, Rai University has attended a workshop on Ethical Hacking Master Class organised by Nikistian Media Pvt. Ltd.

(3) Senty Pandey a student of Bachelor of Computer Applications, Rai School of Engineering, Rai University has completed one month virtual internship in Cyber Security and demonstrated exceptional performance at ShadowFox Internship Training Platform.



- **Quick Tips & Tricks**
- **Time Management:** Use the Pomodoro Technique—work for 25 minutes, then take a 5-minute break. Repeat to stay focused and prevent burnout.
- **Memory Tip:** Use mnemonic devices for difficult concepts; create memorable associations or acronyms to improve retention.
- **Math Trick:** For quick multiplication, break down numbers into simpler forms. For example, 15×14 can be calculated as $10 \times 15 + 5 \times 14$.
- **Coding Shortcut:** For beginners in coding, always break down large problems into smaller steps, and use pseudocode to

- **2024 Paris Olympics**
- **Manu Bhaker :** Won two bronze medals in shooting: one in the Women's 10m Air Pistol and another in the mixed 10m Air Pistol event with Sarabjot Singh.
- **Swapnil Kusale :** Secured a bronze in the Men's 50m Rifle Three Positions.
- **Indian Men's Hockey Team :** Earned a bronze medal in field hockey.
- **Neeraj Chopra :** Claimed a silver medal in the Men's Javelin Throw, continuing his legacy in athletics.
- **Aman Sehrawat :** Won bronze in wrestling, competing in the Men's Freestyle 57 kg category.

- **Mini Game: Tic-Tac-Toe**
- **Let's Play!**

A simple tic-tac-toe grid for readers to enjoy during a study break. This can be completed with a pen or pencil. You could add a brief note encouraging readers to play with a friend or solve alone for relaxation.

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- **Quote of the Month**

“Scientists study the world as it is; engineers create the world that has never been.”

– **Theodore von Kármán**

“Engineering is not only the study of the technical; it's the study of what's possible.”

– **Unknown**

**RSE CONNECT DIGITAL NEWSLETTER COMMITTEE (2023-24)**

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Prof. (Dr.) Sailesh Iyer	Dean, RSE	Chief Editor
Dr. Radhikaben Mistry	Assistant Professor	Assistant Editor
Ms. Megha Sankhala	Assistant Professor	Assistant Editor
Mr. Meet Bakotia	Assistant Professor	Assistant Editor
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