

Editorial

Milestones in the journey of Ranchi University

March issue of the "Perspective" is in your hand. Maintaining regularity with quality in content has been a challenge for the editorial board. But the issue of the newsletter must come as academic, research, cocurricular and extracurricularevents and other non-academic activities taking place on the campus.

IQAC is taking all efforts to keep the campus vibrant and dynamic. A new column has been inducted from the February 2025 issue to focus on ongoing research of the departments and the IQAC has requested all the departments of the university to contribute a review of research already published (in high impact factor journals) by the faculty members or research scholar of the department.

Following the NAAC and UGC guidelines the IQAC has scheduled its annual meeting in the last week of April 2025. The agenda has been set, and action taken report (ATR) is being prepared. Looking back, in the last academic session the IQAC took many efforts – prepared its own calendar of events for round the year activities and have moved other departments too – like Central Library of the university and all academic department to prepare their departmental Calander of events. Central Library of the university is, not only, going to be fully digitalized but has taken efforts to make itself a hub for all other university departmental librariesand are being connected virtually. It has conducted symposium and organized training programmes for the research scholars and faculty members to make them trained on different digital tools, for e-resource access. Training on Turnitin software – a worldclass similarity checker and plagiarism check is now available for all the faculty members and research scholars of the university.

Signing MoUs with IIT Madras, IIT ISM, Dhanbad, BIT Mesra, Ranchi, NSDC International were big achievements and are milestones in the university's journey in the contemporary world to compete with the global paradigm shift in higher education. Process of accreditation was also an important event that took place last year and the NAAC Peer team visited the university. NAAC accreditation process includes compilation of AQAR for the four consecutive years and, finally, preparation of SSR and submission of IQA to NAAC. In this process many lessons were learned. The university under the dynamic stewardship of Hon'ble Vice Chancellor Dr Ajit Kumar Sinha started the process of granting seed money to young faculty members of the university and research support grant to the senior faculty members. This will give a boost to the university research and an ecosystem will develop to support the academics and research of the campus. In this series, the IQAC has taken the baton in its hand to inject, and infuse quality in the publications of the research papers of the science and social science faculty. It has developed policies and protocols with SOPs for research publications. The two major journals of the university – RUJOST and RUJOSH will be published regularly, and a roadmap has been prepared to upgrade its quality. Two posts were made by Hon'ble Vice Chancellor in the WhatsApp group of the university (Deans and HoDs group) – one was of Prof. Mamidala Jagdesh Kumar, the UGC Chairman and other was of Marc C. Taylor (Chair of the department of religion at Columbia University in New York and author of Crisis on Campus: Abold Plan for Reforming Our Colleges and Universities), shows his deep concern for the PhDs and other ongoing researches of the campus.

Academic and sports convocation were another important event that took place on the campus and put the university on the edge. New tasks and challenges are arising – implementation of NEP 2020 at Postgraduation level, introduction of research programme at Undergraduate level in the FYUGP andIntroduction of Indian Knowledge System in the curriculum development of books in local language.

- Dr. B. K. Sinha

Research Communication

Regulation and safety measures for nanotechnology-based agri-products

Ritika Kumari, Kalpana Suman, Swagata Karmakar, Vandana Mishra, Sameer Gunjan Lakra, Gunjan Kumar Saurav, Binod Kumar Mahto
Frontiers in Genome Editing (2023); Front. Genome Ed. 5:1200987. doi: 10.3389/fgeed.2023.1200987

There is a wide range of application for nanotechnology in agriculture, including fertilizers, aquaculture, irrigation, water filtration, animal feed, animal vaccines, food processing, and packaging. In recent decades, nanotechnology emerged as a prospective and promising approach for the advancement of Agri-sector such as pest/disease prevention, fertilizers, agrochemicals, biofertilizers, bio-stimulants, post-harvest storage, pheromones-, and nutrient-delivery, and genetic manipulation in plants for crop improvement by using nanomaterial as a carrier system. Exponential increase in global population has enhanced food demand, so to fulfil the demand markets already included nano-based product likewise nano-encapsulated nutrients/ agrochemicals, antimicrobial and packaging of food. For the approval of nano-based product, applicants for a marketing approval must show that such novel items can be used safely without endangering the consumer and environment. Several nations throughout the world have been actively looking at whether their regulatory frameworks are suitable for handling nanotechnologies. As a result, many techniques to regulate nano-based products in agriculture, feed, and food have been used. Here, we have contextualized different regulatory measures of several countries for nano-based products in agriculture, from feed to food, including guidance and legislation for safety assessment worldwide.

IQAC NEWSLETTER COMMITTEE

PATRON

Prof. (Dr.) Ajit Kumar Sinha
Vice Chancellor
Ranchi University, Ranchi

Chief - Editor

Prof. Sudesh Kumar Sahu
Director, IQAC
RU Ranchi

Editor

Dr. B. K. Sinha
Technical Officer and
Coordinator- IQAC, RU, Ranchi

Assistant Editor

Dr. Binod Kumar Mahto
Assistant Professor,
Dept. of Botany, RU, Ranchi

Dr. Sameer Gunjan Lakra
Assistant Professor,
Dept. of Botany, RU, Ranchi

Editorial Board

Prof. G. S. Jha
IQAC Expert, RU, Ranchi

Dr. Raj Kumar Singh
Assistant Professor,
Dept. of Physics, RU, Ranchi

Dr. Shipra
Associate Professor,
Dept. of Home Science,
RU, Ranchi

Dr. Soni Kumari Tiwari
Assistant Professor,
Dept. of Zoology, RU, Ranchi

Dr. Smriti Singh
Assistant Professor,
Dept. of Chemistry, RU, Ranchi

Dr. Sumit Kumar Dey
Assistant Professor,
Dept. of English, RU Ranchi

Editorial Assistance

Suman Kumar Mahto, Farhan Ansari



राँची विश्वविद्यालय, राँची
RANCHI UNIVERSITY, RANCHI

NEWS, ACTIVITIES AND ACHIEVEMENTS

Sports and Cultural Convocation of RU



In a historic first, Ranchi University organised a Sports and Cultural Convocation on Thursday at the Aryabhatta Auditorium, Morhabadi Campus. The grand event witnessed the felicitation of 120 talented students

from the fields of sports and culture, with 156 medals distributed to honour their outstanding performances at the national, zonal, and state levels.

The Governor of Jharkhand, Shri Santosh Kumar Gangwar, graced the occasion as the Chief Guest. 11 exceptional athletes and artists were honoured by Hon'ble Governor cum Chancellor of University of Jharkhand with gold medals and certificates for their remarkable achievements, while special guests Padmashree Madhu Mansuri, Manohar Toppo, and Vice Chancellor Dr. Ajit Kumar Sinha presented 82 silver and bronze medals to other meritorious students.

The Governor lauded the youth for their versatility and determination, stating that they are not only excelling in academics but also making their mark in sports, culture, and innovation. He praised Ranchi University for becoming the first university in the eastern zone to host a sports convocation, calling it a commendable initiative that would inspire future generations.

Vice Chancellor Dr. Ajit Kumar Sinha presented a detailed report highlighting the university's achievements in sports and arts. He revealed that Ranchi University has trained over 12,600 athletes since its inception, with 9,500 of them serving in government roles such as the railways, CRPF, and the Indian Army, while 700 athletes are currently working abroad.

Prominent alumni of Ranchi University who have brought laurels to the nation were also remembered. These include Padma Shri and Dronacharya Awardee Purnima Mahato, Olympians Reena Kumari, Nikki Pradhan, and Salima Tete, and Dhyan Chand Awardee Sumrai Tete. Cricketing icon Mahendra Singh Dhoni, who once walked the halls of Ranchi University, was celebrated as an inspiration for aspiring athletes. The convocation also highlighted the success of former RU students like Sarojini Lakra and Emelda Ekka, who are now serving as IPS officers, bringing pride to the university.

As part of its vision to promote sports and cultural excellence, Ranchi University announced several new initiatives, including the construction of synthetic courts for tennis and sports grounds for volleyball, basketball, and other activities. The Vice Chancellor also revealed that trainers have been appointed to identify and nurture budding talents. To further support athletes, the university will offer scholarships to deserving players, ensuring they receive both financial support and professional training.

The convocation was live on YouTube, allowing viewers from across the region to witness this remarkable event.

Academic and Cultural Exchange Programme, between Goa University and Ranchi University



The Ek Bharat Shreshtha Bharat (EBSB) programme, held from 17th to 19th February 2025, facilitated a cultural and academic exchange between Goa University and Ranchi University. This initiative, aimed at fostering national integration and cultural understanding, brought together students and faculty from both universities, with Goa and Jharkhand being paired under the programme.

The exchange programme included a vibrant cultural event at Aryabhatta Auditorium, where Ranchi University students performed the traditional Kadsa dance and Goa University students showcased Gonycho folk dance and a dramatic depiction of Goa's history, including its integration into India. The event also featured Bharatanatyam and patriotic songs, concluding with the performance of Mile Sur Mera Tumhara, symbolizing unity.

On the final day, the team visited significant historical sites such as Ulihatu, the birthplace of Birsu Munda and Dombari Buru, where they paid homage to the tribal leader's legacy. They also explored rural life in Digri village and engaged with the local community.

The programme concluded with a meeting with Prof. Dr. Ajit Kumar Sinha, Vice Chancellor of Ranchi University, who praised the initiative's success in promoting national integration. The EBSB programme left a lasting impact on all participants, fostering meaningful academic and cultural exchanges while celebrating India's diversity.

On the final day, the team visited significant historical sites such as Ulihatu, the birthplace of Birsu Munda and Dombari Buru, where they paid homage to the tribal leader's legacy. They also explored rural life in Digri village and engaged with the local community.

The programme concluded with a meeting with Dr. Ajit Kumar Sinha, Vice Chancellor of Ranchi University, who praised the initiative's success in promoting national integration. The EBSB programme left a lasting impact on all participants, fostering meaningful academic and cultural exchanges while celebrating India's diversity.

राँची : झारखंड की धड़कन

राँची की वादियां, पर्वत की छाँव,
शांत सरोवर, झरनों की ठाँव।
साल के जंगल, पलाश का खिलता रंग ,महुआ की
मादकता,
मन में बसाए नैसर्गिक पावनता।।

झरनों की गूँज ,हवा में मिठास ,
धरती पे लिखी प्रकृति की किताब।
हुंडरू की जलधार, दशम की फुहार
हरियाली से भरता ये मन का संसार।।

झारखंड, वीरों की भूमि महान,
बिरसा, सिदो— कान्हु के बलिदान।
संघर्ष की गाथा, स्वाभिमान की बात,
धरती के लालों की अमर सौगात।।

खदानों की चमक, खेतों की सौँधी गंध,
श्रम से संवरता जन — जन का स्पंदन।
संस्कृति ,परंपरा , भाषा की शान ,
राँची से गूँजे झारखंड का गान।।

राँची के लोग हैं सीधे—सादे ,
दिल के सच्चे, मन के बड़े ही प्यारे।
हवा में बसता है अपनापन,
हर कोई लगे जग से न्यारे।।

राँची की गलियों में खुशबू छाई,
झारखंडी खाने की अनोखी रुलाई।
धुस्का, लिट्टी चोखा और चाय की चुस्की
हर निवाले में प्रेम की ज्योति।।

“ झारखंड जय — जयकार करे,
प्रकृति, परिश्रम, प्रेम अमर रहे।। ”

— रंजना रामवेळिप

एम. ए. द्वितीय वर्ष, गोवा विश्वविद्यालय

Ek Bharat Shreshtha Bharat 2025, Academic and
Cultural Exchange Programme in Ranchi University,
Ranchi)

IKS Training at Devi Ahilya Bai University, Indore by
RU Faculty

Dr. Rajkumar Sharma from the University Department of English and Dr. Smriti Singh from the University Department of Chemistry, Ranchi University, successfully conducted a six-day training program on the Indian Knowledge System (IKS) at Devi Ahilya Bai University, Indore, from 17th to 22nd February 2025. Both faculty members, who are UGC-declared National-Level Master Trainers for IKS, were specially invited by the University Grants Commission (UGC) to deliver this capacity-building program.

One-Day Industry Conclave to Establish State
Technology Park of Jharkhand

Ranchi University organised a one-day Industry Conclave on 19th February 2025 to initiate the establishment of a State Technology Park in Ranchi, under the chairmanship of the Principal Secretary, Department of Higher and Technical Education, Government of Jharkhand. The event commenced with the ceremonial lighting of the lamp, symbolising the beginning of this significant initiative.

The Chief Guest, Shri Rahul Kumar Purwar, IAS, Principal Secretary, graced the occasion alongside other distinguished dignitaries, including Shri Ramnivas Yadav, Director, Higher & Technical Education Department; Dr. Ajit Kumar Sinha, Vice Chancellor, Ranchi University; Dr. D. K. Singh, Vice Chancellor, JUT; Shri Syed Riaz Ahmed, IAS; Shri Arindam Lehri, CEO, ASDC; Shri Somnath Roy, GM, Schneider Electric; Shri Bala Iyer, Reliance Jio; and Shri Mrigesh Sutaria, CEO, Abicor India.

The welcome address was delivered by Dr. Ajit Kumar Sinha and Dr. D. K. Singh, setting the tone for a day of insightful discussions. This was followed by a keynote presentation by Shri Syed Riaz Ahmed, who elaborated on the vision and concept of the State Technology Park, outlining the roles of various stakeholders in making this initiative a success.

The primary objective of the conclave was to foster collaboration between industry and academia, ensuring that students and young professionals gain exposure to emerging technologies and career opportunities in diverse industrial sectors. The event featured four major sessions, each addressing a key industry domain: IT and Future Skills, Emerging Technologies, Service Sector, and Automation & Industry 4.0 Manufacturing.

Ranchi University played a pivotal role in organising and overseeing the conclave, facilitating meaningful interactions between academia and industry experts. Dr. Ajit Kumar Sinha, Vice Chancellor of Ranchi University, actively contributed to discussions on integrating industry demands into academic programs, helping bridge the gap between students, researchers, and industry professionals. His leadership promoted a collaborative learning environment, fostering new opportunities for students.

The conclave witnessed the participation of over 100 representatives from various sectors of industry and academia, making it a significant platform for knowledge sharing and networking. This initiative marks a major step towards strengthening industry-academia partnerships and reaffirms Ranchi University's commitment to enhancing technical education and employability for its students.

Shri Harivansh, Deputy Chairman of Rajya Sabha
Released a book

On 18th February 2025, the Mass Communication Department of Ranchi University hosted a grand book release ceremony featuring four books authored by writer Rajyalakshmi Sahay. The event was graced by the presence of Honourable Deputy Chairman of Rajya Sabha, Shri Harivansh, as the Chief Guest, adding to the prestige of the occasion. On this momentous occasion, Mrs. Rajshree Sahay was extended heartfelt congratulations and best wishes for her literary accomplishments. The event also underscored Ranchi University's commitment to promoting literary excellence and fostering a culture of knowledge and creativity.

Ranchi University Submits Annual Quality
Assessment Report 2023-24 to NAAC

The Internal Quality Assurance Cell (IQAC) of Ranchi University successfully submitted its Annual Quality Assessment Report (AQAR) 2023-24 on the NAAC portal on 3rd February 2025. This achievement reflects the university's ongoing commitment to ensuring high standards of quality in academic and administrative functions. The submission of the AQAR is an essential step in the NAAC accreditation process, showcasing the university's progress and initiatives towards enhancing educational quality and institutional development. The report highlights various initiatives undertaken throughout the year, contributing to the continuous improvement of teaching, research, and infrastructure.

15-Day Free Yoga Camp Concludes at School of Yoga

The School of Yoga at Ranchi University successfully concluded its 15-day free yoga camp on 20th February 2025 with a Yagya Havan ceremony. The camp, held from 5th to 20th February, witnessed enthusiastic participation from yoga enthusiasts, including students, faculty, and members of the local community.

Organised annually by the School of Yoga, this free-of-cost camp aims to promote health and wellness through the practice of yoga and meditation. Participants engaged in various yoga asanas, pranayama techniques, and relaxation exercises, benefiting from expert guidance.

The Director of the School of Yoga, Dr. Madhulika Verma, along with faculty members, staff, and students, graced the concluding ceremony. The participants praised the holistic benefits of the camp, expressing their appreciation for the initiative and requesting more such events in the future. Ranchi University remains committed to promoting physical and mental well-being through such inclusive and community-driven initiatives, reinforcing the importance of yoga in fostering a healthy lifestyle.



Faculty Participated in Nanopore-Based
Transcriptome Sequencing & Data Analysis Training
at CSB-CTRTI, Ranchi

Ranchi University expresses its gratitude to the Hon'ble Vice Chancellor, Dr. Ajit Kumar Sinha, for nominating and providing financial assistance to four faculty members who participated in the Five Days Hands-On Training on Nanopore-Based Transcriptome Sequencing & Data Analysis, held from February 3rd to 7th, 2025, at the CSB-Central Tasar Research and Training Institute, Piska-Nagri, Ranchi. The participants included Dr. Binod Kumar Mahto and Dr. Sameer Gunjan Lakra from the University Department of Botany, Ranchi University, Dr. Neha Nidhi Turkey from the Department of Zoology, J. N. College, and Dr. Tarkeshwar Kumar from the Department of Zoology, P. P. K. College, Bundu. The training saw the participation of 30 attendees, including scientists, assistant professors, and research scholars from across India. The workshop was inaugurated by Dr. Ajit Kumar Sinha and provided in-depth theoretical and hands-on sessions on bioinformatics, RNA sequencing, transcriptomics, and nanopore library preparation. Participants gained valuable knowledge in advanced sequencing technologies, enhancing their research skills and expertise in genomics and transcriptome analysis.

RU Successfully Submits AISHE Data for 2023-2024

Ranchi University has successfully submitted the AISHE (All India Survey on Higher Education) data for the academic session 2023-2024 on the AISHE portal on 14th February 2025. This timely submission underscores the university's commitment to accuracy and transparency in reporting its institutional data, contributing significantly to the national education database.

The All India Survey on Higher Education (AISHE) is an annual nationwide survey conducted by the Ministry of Education, Government of India, to collect comprehensive data from higher education institutions. The survey covers key parameters such as student enrollment across various courses and disciplines, faculty details including qualifications and specialisations, infrastructure and facilities available on campus, financial data related to funding, expenditure, and scholarships, and research output, including publications and projects.

By participating in AISHE, Ranchi University plays a vital role in supporting data-driven policy formulation and academic planning at the national level. The insights derived from this data are instrumental in shaping educational reforms, funding allocations, and developmental strategies for higher education in India.

The university extends its appreciation to the administrative team, faculty, and staff whose collective efforts ensured the accurate and timely submission of the data. This achievement reaffirms Ranchi University's dedication to excellence and accountability in higher education.