



JHARKHAND
Rai University
RANCHI

**DEPARTMENT OF
MINING ENGINEERING**

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Magazine**

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Jharkhand Rai University, Ranchi, India

From Editor's Desk

As we reflect on our achievements, let's keep our eyes on the horizon - growth is a continuous path, and we walk it together.

Dear Readers,

Greetings from the Department of Mining Engineering!

We are thrilled to present the January–June 2025 edition of our departmental newsletter. This issue highlights the exceptional achievements and collaborative spirit that define our Department of Mining Engineering.

From ground breaking research and academic accolades to insightful guest lectures and hands-on training, our students and faculty continue to push boundaries and set new standards in the mining sector.

As we look ahead, we remain committed to fostering innovation, sustainability, and excellence in all our endeavours.

Warm regards,

Dr. Vineeta Kumari

Associate Editor, Departmental Newsletter
Department of Mining Engineering

Faculty Members



Prof. D. P. PANDEY
Head Deptt. of Mining Engineering
Former Chief General Manager CGM, CMPDI, Ranchi



Dr. ARINDAM GHOSH
Associate Professor,
Deptt. of Mining Engineering



Dr. SUMIT KUMAR PANDEY
Associate Professor,
Deptt. of Mining Engineering



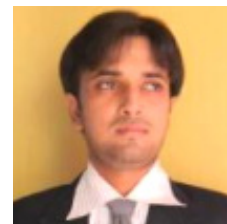
Dr. VED PRAKASH SINGH
Associate Professor,
Deputy Registrar, Examination



Dr. VINEETA KUMARI
Assistant Professor,
Deptt. of Mining Engineering



Dr. JAI PRAKASH MEENA
Assistant Professor,
Deptt. of Mining Engineering



SUMEET KISHORE
Assistant Professor,
Deptt. of Mining Engineering



OM PRAKASH SATYAM
Assistant Professor,
Deptt. of Mining Engineering



CHANDAN KUMAR
Assistant Professor,
Deptt. of Mining Engineering



SAMEER FAROOQUE
Assistant Professor,
Deptt. of Mining Engineering



CHANDAN KUMAR PANDIT
Assistant Professor,
Deptt. of Mining Engineering



SOMNATH KUMAR RISHIA
Lecturer,
Deptt. of Mining Engineering



KAMAKHAYA NARAYAN
Lecturer,
Deptt. of Mining Engineering



SUDHAKAR KUMAR RAVI
Lecturer,
Deptt. of Mining Engineering

Guest on Campus

JRU Hosts Inspiring Talk on Building a 'Vikshit Bharat' Through Sustainable Mining



Jharkhand Rai University's Department of Mining Engineering took a visionary leap toward India's development goals by organizing an Expert Talk titled "Vikshit Bharat through Sustainable Development with Special Reference to Mineral Resources and Mining in Jharkhand."

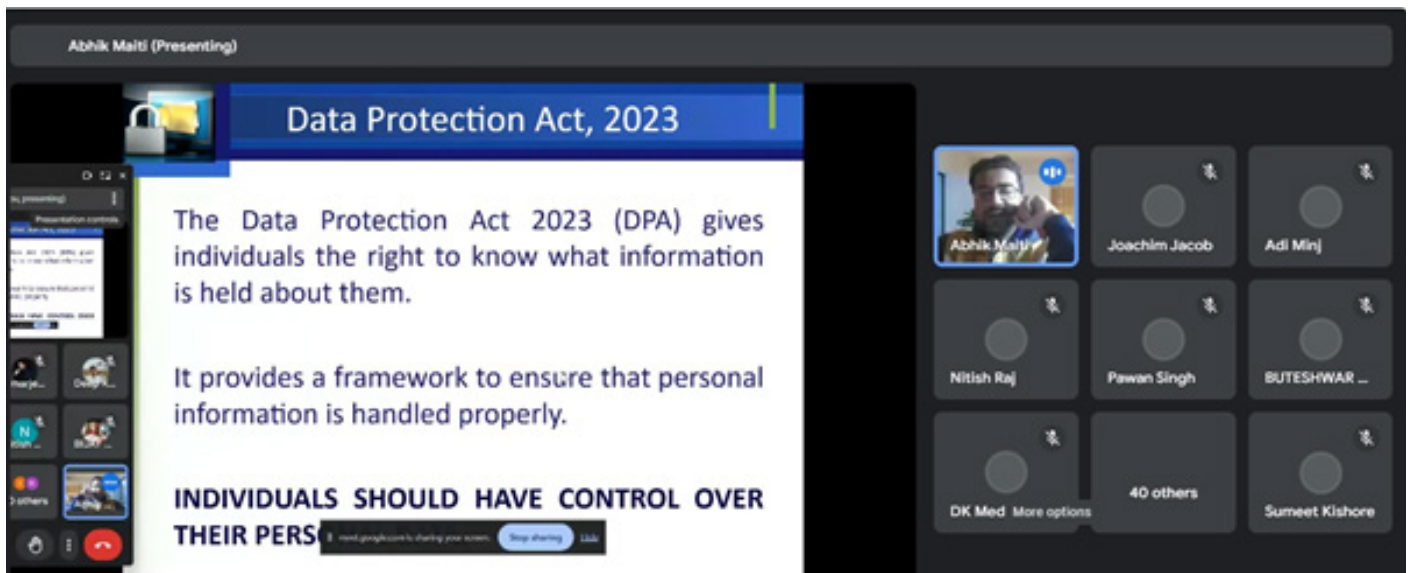
Convened by Mr. Sumeet Kishore, the event featured eminent academician Prof. (Dr.) S. P. Singh, Former Vice Chancellor of V.K.S. University, Ara, who delivered an insightful address on how sustainable mining can be a cornerstone in realizing the dream of a Developed India.

With 74 engaged participants, the talk explored the balance between economic growth and environmental responsibility, emphasizing Jharkhand's rich mineral potential and its pivotal role in national progress. The session inspired students and scholars alike to think innovatively about resource management, sustainability, and inclusive development.

This impactful dialogue marked yet another step in JRU's commitment to nurturing future-ready professionals dedicated to building a smarter, greener, and more developed India.

Guest on Campus

Click Smart, Stay Safe: JRU's Data Privacy Workshop Empowers Digital Defenders



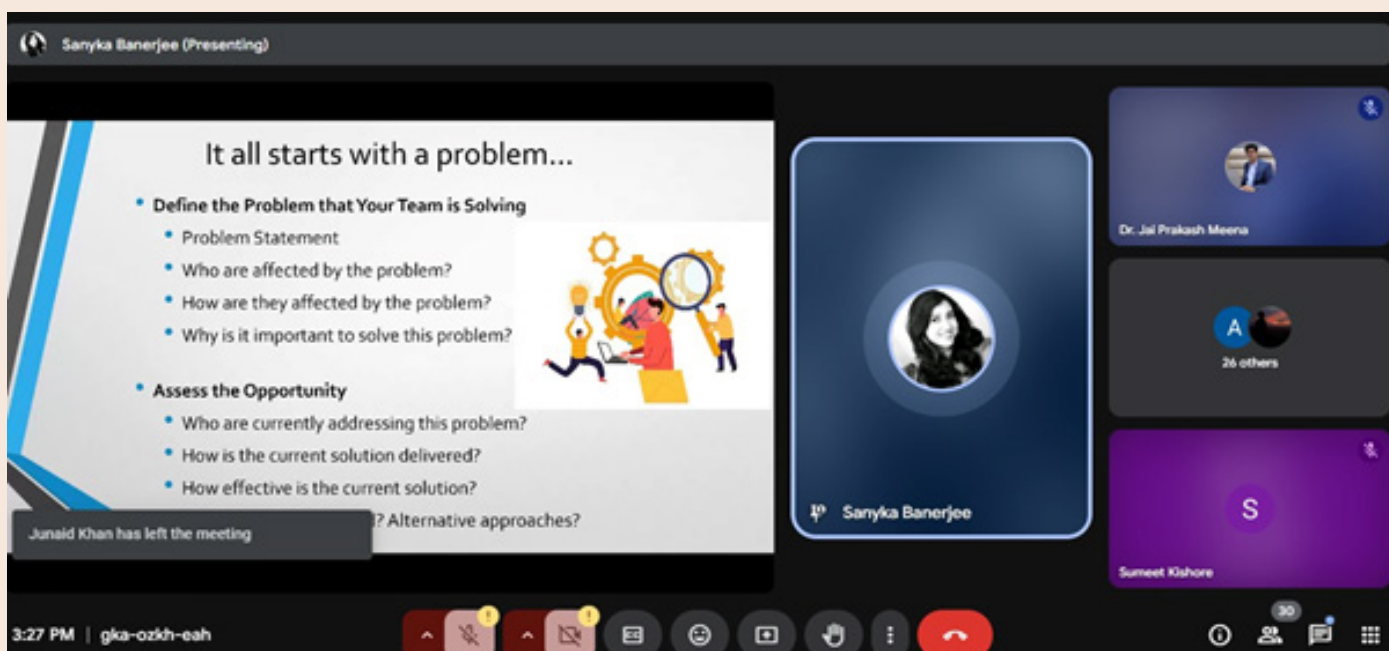
In a powerful stride toward cyber awareness, the Department of Mining Engineering in collaboration with the Science Club at Jharkhand Rai University marked Data Privacy Day with an impactful Workshop on Data Privacy, led by Dr. Abhik Maity, Data Scientist at PRM FINCON and alumnus of IIT Kharagpur.

Held on February 14, 2025, the workshop drew 55 participants and delivered essential insights into protecting personal data, digital hygiene, and cybersecurity best practices. The highly interactive session encouraged active discussions and real-time Q&A, making complex concepts accessible and actionable.

From social media safety to data encryption basics, attendees walked away with practical tools to safeguard their digital identities. The event, convened by Dr. Jai Prakash Meena, was a timely reminder of the growing need to stay vigilant in the digital age.

Guest on Campus

Innovate to Elevate: JRU Hosts Power-Packed Workshop on Business Model Innovation



On August 24, 2024, Jharkhand Rai University, Namkum, witnessed an inspiring expert talk titled “*Innovation in Space Technology: How India Is Leading the Way*,” hosted by the Department of Mining Engineering, Science Club, and the Institution’s Innovation Council.

The event featured Dr. Taps Dey—currently with Synspective INC, Japan, and former Project Officer at Kalpana Chawla Space Technology Cell, ISRO IIT Kharagpur—who captivated the audience with insights into India’s groundbreaking space missions like Chandrayaan and Mangalyaan.

With a focus on ISRO’s cost-effective innovations and global collaborations, Dr. Dey’s session sparked vibrant discussions and deepened students’ interest in space research and career opportunities. The talk was a fitting celebration of National Space Day, spotlighting India’s rising prominence in the global space race.

Guest on Campus

Students Gear Up to Save Lives: JRU Hosts First Aid Certification Workshop



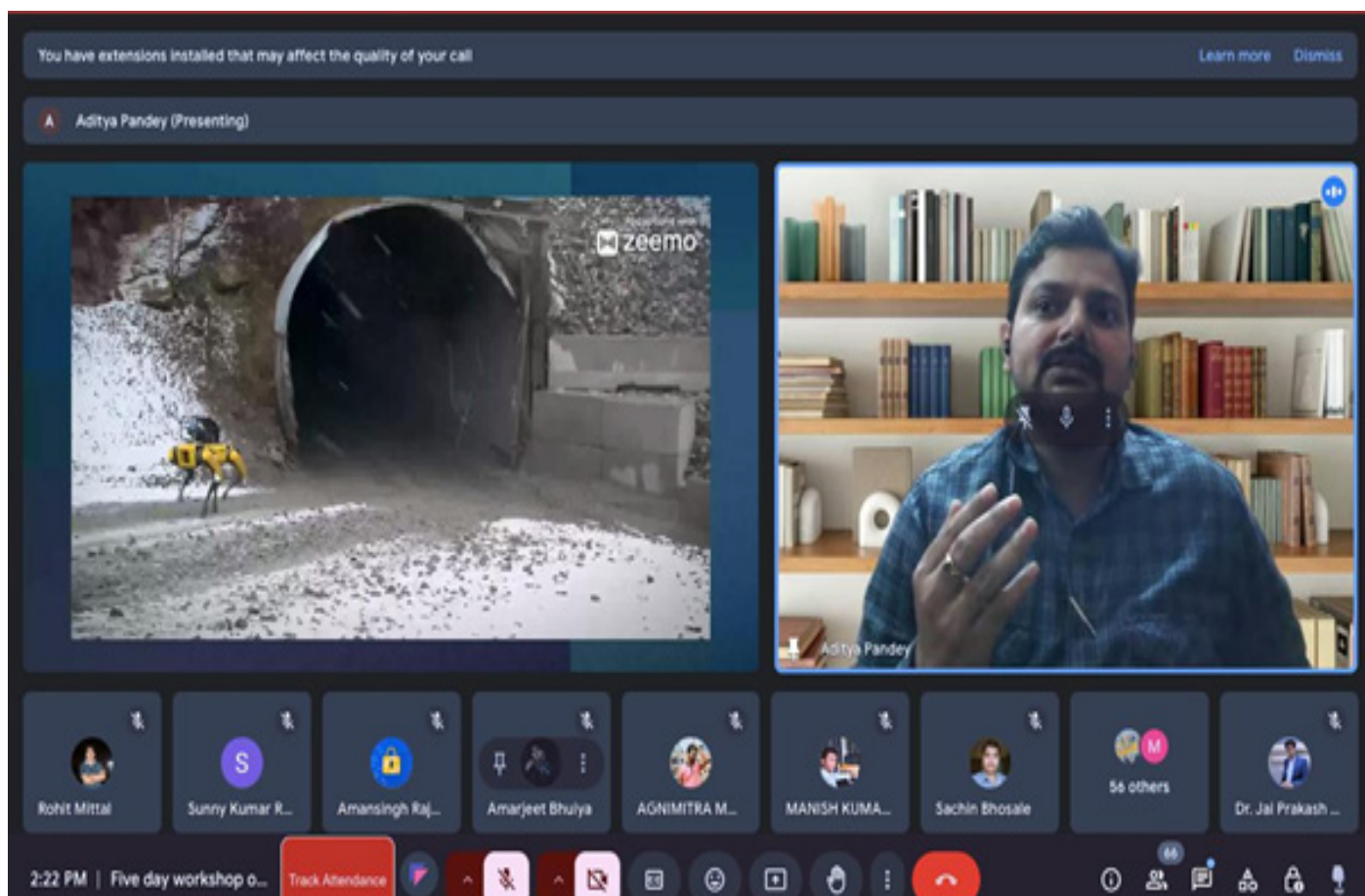
Jharkhand Rai University's Department of Mining Engineering, in collaboration with Khurana Education and Welfare Society, conducted a dynamic two-day First Aid Certification Workshop from May 13–14, 2025. Under the guidance of Convener Somnath Kumar Rishi, 58 enthusiastic participants were trained by expert doctors in life-saving techniques.

The hands-on sessions covered CPR, AED usage, bleeding control, fracture management, burn care, and more. Simulated emergency scenarios gave students real-time decision-making experience, boosting their preparedness for real-world emergencies.

Participants received official certifications, equipping them to act confidently in critical situations and reinforcing a culture of safety within the university.

Guest on Campus

Global Minds Unite at JRU to Shape the Future of Smart & Sustainable Mining



The Department of Mining Engineering at Jharkhand Rai University hosted a ground breaking 5-day international workshop titled “Innovation in Mining: Toward a Smart and Sustainable Future” from February 17–21, 2025, under the leadership of Convener Dr. Jai Prakash Meena.

Drawing 188 participants from India and abroad—including the USA, Australia, Ghana, and Indonesia—the event became a global hub for cutting-edge discussions on mining innovations and environmental sustainability. Renowned experts from institutions like IIT Kharagpur, NIT Surathkal, CIMFR Dhanbad, and the University of South Dakota shared insights on topics ranging from rare earth mineral mining to mine fire safety and sustainable practices.

This high-impact workshop reinforced JRU’s vision of driving innovation and international collaboration to shape a smarter, safer, and greener mining industry.

Guest on Campus

Future Engineers Embrace Innovation at JRU's Advanced CAD/CAM Workshop



Jharkhand Rai University's Department of Mining Engineering, in collaboration with CIPET Ranchi, successfully hosted a transformative Workshop on Advanced Manufacturing Using CAD/CAM Software from April 21–26, 2025. Led by Convener Sumeet Kishore, the 5-day program empowered 36 budding engineers with hands-on experience in cutting-edge manufacturing technologies.

Focused on bridging the gap between academics and industry, the workshop immersed students in polymer tech, CAD/CAM applications, and real-world manufacturing scenarios. Technical demos, interactive sessions, and practical learning modules fostered critical thinking and innovation.

The event culminated in a certificate distribution ceremony, with contributions from Dr. Vineeta Kumari, Mr. Chandan Kumar, and Mr. Sudhakar Kumar, leaving participants inspired and industry-ready.

Guest on Campus

From Classroom to Coalface: JRU Alumnus Inspires Future Mining Engineers



In a powerful blend of experience and inspiration, the Department of Mining Engineering at Jharkhand Rai University, in collaboration with the Alumni Association, hosted an engaging Alumni Talk titled “Life Underground: My Journey from Classroom to Coalface” on May 7, 2025.

The session featured Mr. Pradip Kumar Bauri, JRU alumnus and current Trainee at Dhori Mines, CCL, who took 46 attendees on a compelling journey through the realities of underground mining.

With honesty and passion, Mr. Bauri shared the highs and hurdles of life in the coalfields, bridging academic theory with on-ground practice. His talk emphasized safety, sustainability, and the vital role of ethics in modern mining operations.

The event wrapped up with a lively Q&A, leaving students inspired, informed, and ready to carve their own paths in the dynamic world of mining engineering.

Guest on Campus

Igniting Innovation: JRU Celebrates National Science Day with Inspiring Student Exhibition

Brilliance, creativity, and scientific spirit lit up the campus of Jharkhand Rai University as the Department of Mining Engineering, in collaboration with the Science Club, hosted a vibrant Science Exhibition on the theme “Empowering Indian Youth for Global Leadership in Science & Innovation for Viksit Bharat.”

Held on March 19, 2025, to mark National Science Day, the event featured a dynamic Poster and Model Exhibition, showcasing the ingenuity of 100 student participants across departments. The exhibition not only celebrated scientific talent but also reinforced India’s vision of becoming a global leader in science and innovation. Guided by jury members Dr. Harmeet Kaur, Dr. Ved Prakash Singh, and Dr. Sumit Kumar Pandey, the event spotlighted standout innovations:

Model Exhibition Winner: Dept. of Mining Engineering – Priyanka Mishra, Buteshwar Kumar, Abhishek Kumar & Sachin Kumar

Model Runner-Up: Dept. of Mining Engineering – Vishal Bhinjiya & Pankaj Kumar Yadav

Poster Winner: Dept. of BPT – Aryan Kumar & Jasmin Anasari

Poster Runner-Up: Dept. of Pharmacy – Sourav Kumar & Sunny

Convener Dr. Jai Prakash Meena praised the energy and innovation displayed, affirming JRU’s commitment to fostering scientific excellence and youth leadership for a Viksit Bharat.



INDUSTRIAL VISIT

JRU Mining Students Dive Deep into Earth Science at CMPDIL Museum Visit

The Department of Mining Engineering at Jharkhand Rai University took its students on an eye-opening industrial visit to the Earth Science Museum, CMPDIL, Ranchi, on April 24, 2025, offering a hands-on journey into the world beneath our feet.

With 57 enthusiastic participants, the visit brought geological and mining concepts to life, showcasing an impressive collection of minerals, rocks, and fossils, along with detailed models of opencast and underground mining techniques.

Highlights included exhibits on Clean Coal Technology and a rare glimpse of the rescue capsule used in mine emergencies — underscoring the critical focus on safety and sustainable mining.

Convener Sumeet Kishore remarked on the visit's success in bridging classroom theory with real-world practice, preparing students for a future of innovation and responsibility in mining.



INDUSTRIAL VISIT

JRU Mining Students Get Hands-On Industrial Insight at CIPET Ranchi Visit



Bridging classroom theory with cutting-edge industry practice, the Department of Mining Engineering at Jharkhand Rai University organized an eye-opening industrial visit to the Central Institute of Petrochemicals Engineering and Technology (CIPET), Ranchi on March 6, 2025.

With 52 eager participants, the visit offered immersive exposure to polymer processing, testing, calibration, and CAD/CAM design technologies — key areas shaping modern manufacturing and engineering. Guided by experts including Mr. Chandra Shekhar Satpathy, students explored advanced machinery and quality assessment tools, gaining valuable insights into how petrochemical innovations intersect with mining and materials science.

Convener Sumeet Kishore lauded the visit for inspiring students to think innovatively and equipping them with practical knowledge to excel in technology-driven industries.

INDUSTRIAL VISIT

From Blueprints to Behemoths: JRU Students Explore Heavy Engineering at HEC Ranchi



In a powerful blend of learning and industrial exposure, students from the Department of Mining Engineering, Jharkhand Rai University, embarked on an enlightening industrial visit to the Heavy Machine Building Plant (HMBP) of Heavy Engineering Corporation (HEC), Ranchi.

Led by Convener Sumeet Kishore, the visit gave 41 participants a firsthand look into the manufacturing of colossal mining machinery—such as crushers, draglines, and shovel components—key to India's mining operations.

Students gained deep insights into precision engineering, fabrication, assembly lines, and quality control protocols, while also understanding the critical role of industrial safety standards in heavy equipment production.

The visit bridged the gap between theory and practice, igniting curiosity and ambition among future engineers to contribute to India's growing industrial landscape—where innovation meets infrastructure.

Student Achievement

JRU Creates History at IIT Kharagpur's GREAT STEP Fest 2025!



Jharkhand Rai University has made a giant leap in the world of mining engineering by achieving multiple podium finishes at GREAT STEP Fest 2025—India's most prestigious technical festival for mining engineers, hosted by IIT Kharagpur!

In a moment of pride and excellence, JRU stood tall as the only private mining university to clinch top honors, competing against the best technical minds across the country.

2nd Prize – Rock Resilience

Sayed Sakib Ali, Kunj Kumar Rai & Sajal Yadav

2nd Prize – Industrial Design Problem

Sarbanu Bannerjee, Sourav, Afroz & Sachin Kumar

3rd Prize – Safety Hunts

Niranjan Kumar, Asutosh Upadhyay & Jiya Kumari

The achievements were even more special with faculty representation on the judging panel, including our own JRU faculty member—an esteemed alumnus of IIT Kharagpur.

Student Achievement

JRU Strikes Silver and Bronze at NIT Rourkela's MINEACE 2025!



Jharkhand Rai University continues to raise the bar in mining education, shining bright at MINEACE 2025, hosted by NIT Rourkela and organized by the Department of Mining Engineering and the Society of Mining Engineers (SME).

2nd Prize – “Rock on Pap”

Team: Sarbhanu, Sakib, Sachin & Sourav

3rd Prize – “Surveyor Node”

Individual: Sakib (2nd Year, B.Tech Mining Engineering)

Under the expert guidance of Dr. Jai Prakash Meena and his dynamic mining team, JRU students showcased exceptional technical skills and innovation—competing with India’s brightest mining minds and emerging victorious.

These achievements reinforce JRU’s reputation for quality education, industry readiness, and national-level competitiveness. The Mining Engineering department continues to pave the way for future leaders in mining and geosciences.

Student Achievement

JRU Students Shine on Global Stage at International Mining Conference in Udaipur!



Jharkhand Rai University is proud to announce that its Mining Engineering students have made a remarkable mark at the International Conference on “Future of Mining: Digital Empowerment and Youth-Led Sustainability” held in Udaipur, Rajasthan. From Ranchi to Rajasthan, JRU is digging deep and reaching new heights in global mining innovation.

Representing the university on a global academic platform, these brilliant students presented pioneering research that champions safety, sustainability, and smart innovation in the mining sector:

Buteshwar tackled mine safety with his paper on “Analysing Workplace Hazards Using Smart PLS”, introducing predictive analytics to prevent mining accidents.

Biswajeet Mukherjee advocated eco-conscious mining with his paper on “Green Mining and Biodiversity Conservation”, offering sustainable strategies for environmental harmony.

Syed Shakib Ali emphasized the power of safety training in accident prevention with his study on “Training Effectiveness and Accident Reduction.”

Student Achievement

Trailblazers from Jharkhand: Aarti & Anchal Become First Girls to Earn Mining Diploma, Step into Underground Coal Mines



Shattering stereotypes and setting new milestones, Aarti and Anchal have become the first girls from Jharkhand to earn a diploma in Mining Engineering from Jharkhand Rai University, Ranchi. Now making their mark underground, they've begun a paid internship with BCCL (Bharat Coking Coal Limited), paving the way for more women to enter the challenging world of coal mining.

Chandan Pal Shines in National Certification with 2% Topper

Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
CHANDAN PAL
for successfully completing the course

Soft Skill Development

with a consolidated score of **77** %

Online Assignments	21.96/25	Proctored Exam	54.75/75
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Total number of candidates certified in this course: 17346

Jan-Mar 2025
(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam
FREE ONLINE EDUCATION
Yeha me, jaha me

Roll No: NPTEL25HS72S536200068 To verify the certificate No. of credits recommended: 2 or 3

Ranked in the Top 2%, Chandan Pal has successfully completed the NPTEL-certified Soft Skill Development course from IIT Kharagpur. Among 17,346 candidates, his achievement stands out in this prestigious MoE-funded program!

SUCCESS STORY

Heartiest Congratulations!!

GATE MINING 2025

Congratulations on your outstanding rank in GATE Mining 2025!
Wishing you continued success and a bright future ahead!



SUCCESS STORY

JHARKHAND Rai University RANCHI

Heartiest Congratulations!!
GATE 2025

Congratulations on your outstanding rank in **Dual GATE Exam 2025!**
Wishing you continued success and a bright future ahead!

<p>GEMATICS ENGINEERING AIR Rank</p> <p>463</p>		<p>GEMATICS ENGINEERING AIR Rank</p> <p>479</p>	
<p>MINING ENGINEERING AIR Rank</p> <p>431</p>	NITESH KUMAR	<p>MINING ENGINEERING AIR Rank</p> <p>1627</p>	RAHUL KUMAR

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JHARKHAND Rai University RANCHI

Heartiest Congratulations!!

for selection as Management Trainee
at **COAL INDIA LIMITED (CIL)**





Alikatti Ravindar
B.Tech
Mining Engg.
Batch: 2018-22

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SUCCESS STORY

JHARKHAND Rai University
RANCHI

Heartiest Congratulations!!

SUCCESSFUL _____
#JRUPlacements **PLACEMENT**

Utkarsh Kumar Dubey | Sunny Kumar Rana |
Priyanka Mishra | Bipin Bihari | Pawan Kumar Singh |
Nitish Kumar | Kundan Kumar | Anshu Kumar |
Rahul Kumar | Nitesh Kumar

B.Tech
Mining Engineering
Batch: 2021-25

Placed at

THRIVENI SAINIK

JHARKHAND Rai University
RANCHI

Heartiest Congratulations!!

SUCCESSFUL _____
#JRUPlacements **PLACEMENT**

VISHAL KUMAR SAW

GAURAV KUMAR

SUSHANT KUMAR TIWARI

ACC
Placed at **ACC limited**

Students of
B.TECH MINING ENGG.
(Batch 2021-2025)

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SUCCESS STORY



JHARKHAND
Rai University
RANCHI

SUCCESS
STORY

Heartiest Congratulations!!

SUCCESSFUL PLACEMENT AT



SHIVALIK
Engineering Industries Limited


VISHAL KUMAR SAW
B.Tech Mining
(Batch: 2021 - 2025)


UTKARSH KUMAR DUBEY
B.Tech Mining
(Batch: 2021 - 2025)


SUNNY KUMAR RANA
B.Tech Mining
(Batch: 2021 - 2025)


DHARMENDRA PRADHAN
B.Tech Mining
(Batch: 2021 - 2025)


PRIYANSHU PATHAK
B.Tech Mining
(Batch: 2021 - 2025)


AMAN KUMAR
B.Tech Mining
(Batch: 2022 - 2025)


KUNDAN KUMAR
B.Tech Mining
(Batch: 2022 - 2025)


PRAVIN KUMAR GOREAI
B.Tech Mining
(Batch: 2022 - 2025)


BIPIN BIHARI
B.Tech Mining
(Batch: 2022 - 2025)


NITESH KUMAR
B.Tech Mining
(Batch: 2022 - 2025)


SUNANDO PRAKASH BARI
B.Tech Mining
(Batch: 2022 - 2025)


RANJEET SINGH
B.Tech Mining
(Batch: 2022 - 2025)


ANAND RAJ
B.Tech Mining
(Batch: 2022 - 2025)


RAJKUMAR MAJUMDAR
B.Tech Mining
(Batch: 2022 - 2025)


GAURAV KUMAR
B.Tech Mining
(Batch: 2022 - 2025)


SUSHANT KUMAR TIWARI
B.Tech Mining
(Batch: 2022 - 2025)

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Students of B.Tech Mining
Department of Mining Engineering



JHARKHAND
Rai University
RANCHI

**Heartiest
Congratulations!!**

SUCCESSFUL _____

#JRUPacements

PLACEMENT



AMARJEET RAM



ANKIT KUMAR



SATYAM KUMAR



Placed at ACC limited

Students of
**DIPLOMA
MINING ENGG.**
(Batch 2022-2025)

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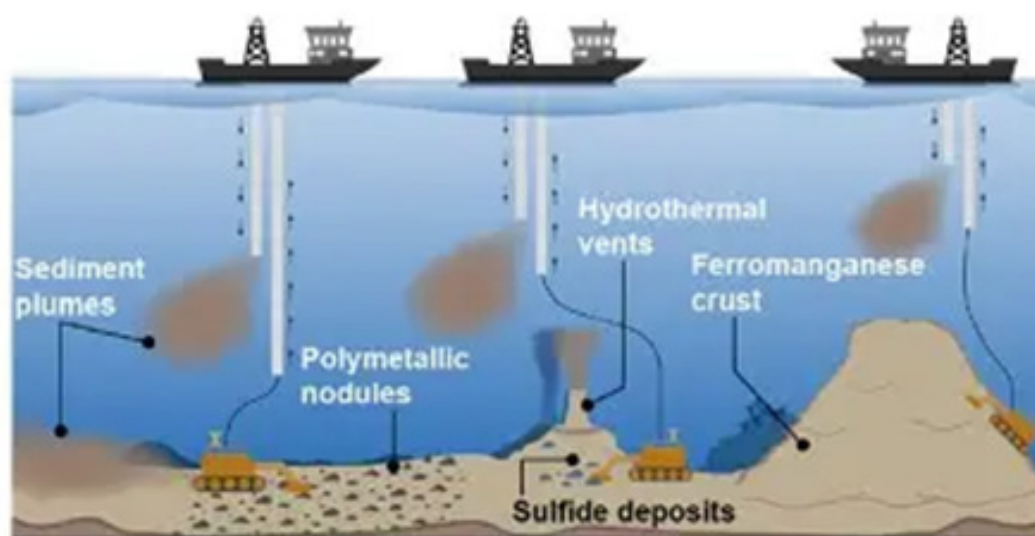
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Faculty Corner

The Impact of Deep-Sea Mining on Marine Ecosystems - Sumeet Kishore

As demand for critical minerals like cobalt, nickel, and rare earth elements grows, deep-sea mining has emerged as a controversial solution. These minerals are essential for green technologies such as electric vehicle batteries and wind turbines, yet their extraction from ocean floors raises serious environmental concerns.



Deep-sea mining targets polymetallic nodules, hydrothermal vents, and seafloor massive sulfides. These sites are not only rich in resources but also home to fragile ecosystems that scientists have barely begun to understand. Disturbing these environments could cause irreversible damage, including the destruction of unique marine species, disruption of carbon storage functions, and the spread of sediment plumes that impact surrounding biodiversity.

Despite the potential benefits for supply chains and economic development, the lack of comprehensive environmental regulations poses a major risk. The International Seabed Authority (ISA) is under pressure to finalize mining rules, but many scientists and environmental organizations are urging a moratorium until more research is conducted.

In conclusion, while deep-sea mining offers an opportunity to secure critical minerals for clean energy technologies, it also poses significant threats to ocean health. A balanced approach that prioritizes scientific research, strict regulations, and environmental stewardship is crucial to ensure sustainable outcomes.

Faculty Corner

Lithium Mining and Its Environmental Trade-Offs - Dr. Vineeta Kumari

As the global push for electric vehicles (EVs) and renewable energy accelerates, lithium has become one of the most sought-after minerals of the 21st century. Often referred to as “white gold,” lithium is essential for manufacturing rechargeable batteries. However, its rapid extraction is raising environmental and ethical concerns, especially in regions rich in lithium reserves such as South America’s Lithium Triangle — comprising Bolivia, Argentina, and Chile.



Lithium is primarily extracted through two methods: hard rock mining and brine extraction. While hard rock mining is energy-intensive, brine extraction — the most common method in South America — involves pumping underground saltwater to the surface and letting it evaporate. This process consumes vast amounts of water in some of the driest areas on Earth, threatening local agriculture and indigenous communities that rely on limited water sources.

Moreover, lithium mining can lead to soil degradation, toxic waste, and air pollution. Communities near mining sites are increasingly voicing opposition, demanding stricter environmental regulations and more equitable distribution of economic benefits.

Faculty Achievement

Department of Mining Engineering

Dr. Sumit Kumar Pandey

- Chaired session on “Track -3 A (T3A) : Image Recognition and Communication Applications” at ICMISC Conference - 28 March 2025.
- Invited as speaker in FDP on electrical vehicle - NIT PATNA from 27 January -31 January 2024.
- Selected as Reviewer in computer & electrical engineering Journal – Elsevier.
- Selected as Reviewer in International journals of dynamic and control –Springer.
- Selected as Reviewer in Electrical Engineering journals –springer.
- Selected as Reviewer in Journal of Intelligent & Robotic Systems –springer.
- Co-supervisor for research project of B.Tech Student with director technical of higher education state of West Bengal in Jalpaiguri Engineering College.

Dr. Ved Prakash Singh

- Presented paper entitled of “A Critical Study of Sustainable Waste Disposal Practices in the Modern Era” in the International Conference on Recent Advances in Artificial Intelligence for Sustainable Development held on 7-8 March, 2025.
- Published book Chapter Entitled “Assessment of Pollution Due to Overburden Dumps Near Coal Mines” published in SHODHCOLD: INNOVATIVE PATHWAY ON MULTIDISCIPLINARY APPROACH TO SUSTAINABLE DEVELOPMENT with ISBN: 978-81-984393-7-6 in January 2025.

Dr. Vineeta Kumari

- Presented research paper entitled “Yogic Approach to eradicate Physical and Mental disorder (With special reference to Patanjali Yoga Darshan)” in National Academic Symposium on the Role of Indian Knowledge System and Indian Languages in the context of Developed India@2047 in Nalanda University, Bihar in 16-18 November 2025.
- Published book Chapter Entitled “Water pollution Causes and Effect” published in SHODHCOLD: INNOVATIVE PATHWAY ON MULTIDISCIPLINARY APPROACH TO SUSTAINABLE DEVELOPMENT with ISBN: 978-81-984393-7-6 in January 2025.
- Published paper in International Journal of Science and Research (IJSR) with ISSN: 2319-7064 & Impact Factor 7.101 in Volume 14 Issue 4, April 2025 on title “A Review of Literature on Copper Smelting and Its Environmental Impact”.
- Published paper in International Research Journal of Advanced Engineering and Science with ISSN: 2455-9024 in Volume 1, Issue 1, 2025 on title “Subarnarekha River - Lower Basin Environmental Challenges and Opportunities”.
- Attending the 5-days Online Faculty Development Programme on “RECENT ADVANCES IN CHEMICAL SCIENCE AND ENGINEERING” held between 06th – 10th January 2025 Organized by Department of Chemistry, School of Engineering, Presidency University, Bengaluru
- Completed the Short term Programme/Faculty Development Programme on Designing and

Faculty Achievement

Developing Blended Learning Courses under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR From.. 27.01.2025 to 01.02.2025.

Dr Jai Prakash Meena

- Published book Chapter Entitled “Rat Hole Mining in India: Challenges and Implications” published in SHODHCOLD: INNOVATIVE PATHWAY ON MULTIDISCIPLINARY APPROACH TO SUSTAINABLE DEVELOPMENT with ISBN: 978-81-984393-7-6 in January 2025.
- Published a patent entitled “Multi Cable Organizer Holder for Computer Desk” on 22nd April 2025, with initial filing on 14th January 2025 with Application No. 444137001.
- Completed the Short term Programme/Faculty Development Programme on Outcome Based Education under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR from 25.02.2025 to 04.03.2025.
- As a resource person of One Day Webinar 24.03.2025 on organized by Department of Mining Engineering, Usha Martin University, Ranchi.
- Selected as reviewer in springer nature Journal.
- Selected as the Coordinator of the technical fest “GREAT STEP 2025”, organized by the Department of Mining Engineering, IIT Kharagpur. He has also significantly contributed as a Jury Member for the events “Mine Safety Analytics” and “Geoboties.

Sumeet Kishore

- Published book Chapter Entitled “Insights into Slope Failures in Mining Operations” published in SHODHCOLD: INNOVATIVE PATHWAY ON MULTIDISCIPLINARY APPROACH TO SUSTAINABLE DEVELOPMENT with ISBN: 978-81-984393-7-6 in January 2025.
- Published book Chapter Entitled “Adverse Effects of Coal Mine Waste Dumps on the Environment and Their Management” published in SHODHCOLD: INNOVATIVE PATHWAY ON MULTIDISCIPLINARY APPROACH TO SUSTAINABLE DEVELOPMENT with ISBN: 978-81-984393-7-6 in January 2025.

Om Prakash Satyam

- Published a patent entitled “SOLAR-POWERED PORTABLE SOIL ANALYZER” on 06th February 2025 with Application No. 438518-001.
- Selected as trained Master Trainers for the purpose of training all Field Functionaries/Frontline Workers for participation in the awareness program by Panchayat Secretaries, Ranchi District, Govt. of Jharkhand.
- CERTIFICATE OF APPRECIATION is awarded in recognition of his role as mentor for the NPTEL Online Certification course SOFT SKILLS in JUL-DEC 2024 BY IIT MADRAS.
- CERTIFICATE OF APPRECIATION is awarded in recognition of his role as mentor for the NPTEL Online Certification course INDIAN ART: Material TECHNIQUES AND ARTISTIC PRACTICES in JUL-DEC 2024 by IIT MADRAS.

Faculty Achievement

- CERTIFICATE OF APPRECIATION is awarded in recognition of his role as mentor for the NPTEL Online Certification course BUSINESS TO BUSINESS MARKETING in JUL-DEC 2024 by IIT MADRAS.
- CERTIFICATE OF APPRECIATION is awarded in recognition of his role as mentor for the NPTEL Online Certification course SERVICE MANAGEMENT: INTEGRATING STRATEGY, OPERATION AND TECHNOLOGY in JUL-DEC 2024 by IIT MADRAS.
- Selected as Exam Observer by IIT Madras is on official duty on May 3, 2025 to enable the conduct of the centre-based exams.
- Selected as Exam Observer by IIT Madras is on official duty on April 26, 2025 to enable the conduct of the centre-based exams.

Chandan Kumar

- Successfully participated in the Faculty Training Workshop on Indian Knowledge Systems (IKS) organized by Siddhanta Knowledge Foundation a recognized IKS Shikshak Prashikshan Kendra of the IKS Division of the Ministry of Education, held on 29/03/25.
- Participated in three days workshop on “RECENT DEVELOPMENTS IN STRUCTURAL ENGINEERING & SKILL UPLIFTMENT” organized by the Department of Civil Engineering, Haldia Institute of Technology, West Bengal, India, in association with IQAC, Haldia, during 26th - 28th March, 2025.
- Published a patent entitled “Multi Cable Organizer Holder for Computer Desk” on 22nd April 2025, with initial filing on 14th January 2025 with Application No. 444137001.
- Recognized as Question paper setter in Birsa Agricultural University on 29 April 2025.
- Successfully completed five days workshop, online mode under department of civil engineering, RTC Institute of technology, Ormanjhi Ranchi, between 2 June 2025 to 6 June 2025 on title “From waste to wonder: Transforming Industrial Byproducts into next- gen construction materials”.

Chandan Kumar Pandit

- Has actively participated in the 5-day Faculty Development Program (FDP) on “future trends in machine learning and data Science-driven IOT applications (FTMLDSA-IOT-2025)” held from 10th march - 13th march & 17th march, 2025 organized by the Department of CSE, HALDIA INSTITUTE OF TECHNOLOGY, HALDIA, in association with the department of CSE, DR. SUDHIR CHANDRA SUR INSTITUTE OF TECHNOLOGY & SPORTS COMPLEX, KOLKATA, and the Department of CSE, BUDGE BUDGE INSTITUTE OF TECHNOLOGY (BBIT), KOLKATA.
- Successfully participated in the Faculty Training Workshop on Indian Knowledge Systems (IKS) organized by Siddhanta Knowledge Foundation a recognized IKS Shikshak Prashikshan Kendra of the IKS Division of the Ministry of Education, held on 29/03/25.



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