

# **REPORT**

on

## **Expert Talk**

:

# **“OCCUPATIONAL HEALTH AND SAFETY IN OPENCAST MINES”**

Date : 12th February 2025



**Centurion**  
**UNIVERSITY**

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*Empowering Communities...*

Organized by

**Department of Mining Engineering**  
**School of Engineering and Technology, BBSR**

**Centurion University of Technology and Management,**  
**Odisha, India**

## Introduction :

The **Department of Mining Engineering, SoET (Bhubaneswar Campus), CUTM, Odisha**, successfully hosted an expert talk on “*Occupational Health and Safety in Opencast Mines*” on **12th February 2025**. Held at the **Seminar Hall, Aryabhata Building**, the session featured **Dr. Bijay Mihir Kumar**, Associate Professor at **NITK Surathkal**. The event highlighted key safety measures, challenges, and best practices in opencast mining. It provided valuable insights for students, researchers, and professionals, fostering awareness and discussions on improving safety standards in the mining sector. The session was an enriching experience for all attendees.



The poster features several logos at the top: Centurion University, Viksit Bharat Abhiyan (1947 to 2047), Quality Education (4), IEEE Student Branch, Institution's Innovation Council, and NAAC A+ accreditation. The main title is "Expert Talk on OCCUPATIONAL HEALTH AND SAFETY IN OPENCAST MINES". The speaker is Dr. Bijay Mihir Kumar, Associate Professor at NITK Surathkal. The event is on 12th February 2025, from 03:00 PM to 05:00 PM, at Seminar Hall, Aryabhata Building. It is organized by the Department of Mining Engineering, School of Engineering and Technology, CUTM, Centurion University of Technology and Management, Odisha.

**Expert Talk**  
on  
**OCCUPATIONAL HEALTH AND SAFETY IN OPENCAST MINES**

**On 12th February 2025**  
**TIME: 03:00 PM to 05:00 PM**

**Speaker**  
**Dr. Bijay Mihir Kumar**  
Associate Professor,  
Dept. of Mining Engineering,  
NITK Surathkal

**VENUE: Seminar Hall,  
Aryabhata Building**

**Organized by:** Department of Mining Engineering, School of Engineering and Technology, CUTM

**Centurion University of Technology and Management, Odisha**  
CAMPUSES: Paralakhemundi | Bhubaneswar | Rayagada | Balangir | Balasore | Chatrapur

## Deliberation on the Session :

The expert talk provided a comprehensive understanding of safety challenges and measures in opencast mining. The session, led by **Dr. Bijay Mihir Kumar**, Associate Professor at **NITK Surathkal**, covered crucial aspects of occupational health, risk management, and safety regulations.

Dr. Kumar highlighted the hazardous working conditions in opencast mines, emphasizing the need for strict adherence to safety protocols. He discussed various safety measures, including advanced monitoring technologies, automation in mining operations, and the importance of personal protective equipment (PPE).

Additionally, he elaborated on occupational health risks, such as respiratory diseases, noise pollution, and ergonomic issues, stressing preventive measures and regular medical check-ups for workers.

The session was interactive, allowing students and faculty to engage in discussions and seek expert guidance. Dr. Kunar also shared case studies of successful safety implementations, providing a practical perspective on improving health and safety standards in mining operations.

## Highlights of the Session :

- **Expert Insights:** Dr. Bijay Mihir Kunar discussed key safety challenges in opencast mining.
- **Workplace Hazards:** Emphasis on risk management, accident prevention, and regulatory compliance.
- **Safety Technologies:** Overview of automation, real-time monitoring, and PPE.
- **Health Risks:** Discussion on respiratory diseases, noise pollution, and ergonomic issues.
- **Interactive Discussions:** Engaging Q&A session with students and faculty.
- **Case Studies:** Real-world examples of successful safety implementations.
- **Career Awareness:** Insights into opportunities in mine safety and health management.

## Outcomes of the Session :

The expert talk on “*Occupational Health and Safety in Opencast Mines*” provided the following key outcomes:

- **Enhanced Awareness:** Participants gained a deeper understanding of occupational health risks, safety regulations, and hazard management in opencast mining.
- **Practical Insights:** Real-world case studies and examples offered practical knowledge of safety implementation and best practices.
- **Career Guidance:** The session highlighted career opportunities in **mine safety and health management**.
- **Technological Awareness:** Attendees learned about **modern safety technologies**, including automation and real-time monitoring.
- **Sustainability Focus:** Emphasis was placed on adopting **sustainable and ethical mining practices** to ensure long-term worker safety and environmental responsibility.

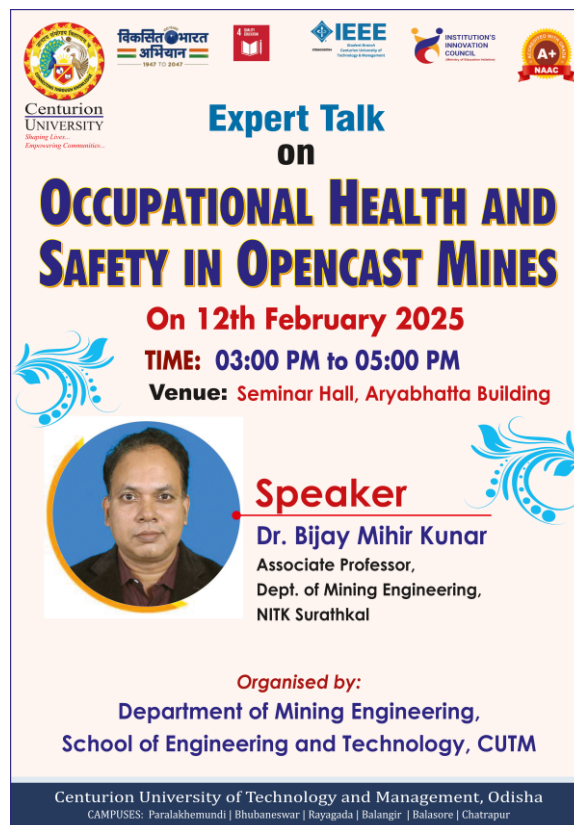
## Feedback from Participants :

Participants found the session highly informative and engaging. **Students appreciated** the real-world case studies and practical insights shared by **Dr. Bijay Mihir Kunar**. **Faculty members praised** the discussion for bridging the gap between **theory and industry practices**. The interactive format allowed for meaningful discussions on **safety regulations and emerging technologies**. Many attendees expressed interest in **more such sessions** on advanced mining safety topics. Overall, the session was well-received and helped foster a **stronger safety culture** among future mining professionals.

## Acknowledgements :

The **Department of Mining Engineering, SOET, CUTM**, extends its sincere gratitude to **Dr. Bijay Mihir Kunar**, Associate Professor at **NITK Surathkal**, for delivering an insightful session on *Occupational Health and Safety in Opencast Mines*. We also appreciate the support of the **university administration, faculty members, and student coordinators**, whose efforts ensured the smooth execution of the event. A special thanks to all participants for their active engagement and enthusiasm. This session would not have been possible without the collective efforts of everyone involved. We look forward to organizing more such knowledge-sharing sessions in the future.

## Glimpses of the session :



The poster features a header with logos for Centurion University, Viksit Bharat, IIT, IIEEE, and NAAC. The main title is 'Expert Talk on OCCUPATIONAL HEALTH AND SAFETY IN OPENCAST MINES'. Below the title, it specifies the date 'On 12th February 2025', time '03:00 PM to 05:00 PM', and venue 'Seminar Hall, Aryabhata Building'. A circular portrait of Dr. Bijay Mihir Kunar is shown next to his name and title: 'Speaker, Dr. Bijay Mihir Kunar, Associate Professor, Dept. of Mining Engineering, NITK Surathkal'. At the bottom, it states 'Organised by: Department of Mining Engineering, School of Engineering and Technology, CUTM'. The footer contains the university's name and campus locations.

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Shaping Lives... Engineering Communities.

विकसित भारत अभियान  
1947 TO 2047

IIT

IEEE

INSTITUTIONS INNOVATION COUNCIL

NAAC A+

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Associate Professor,  
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# Attendees :



## CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering and Technology, Bhubaneswar

Expert Talk on

"Occupational Health and Safety in Opencast Mines"

Attendance Sheet (Date: 12.02.2025 )

Sr. No	Name of the Student	Regd. No.	Branch	Signature
1	<del>RONAK</del> RONAK SAHOO	240301190004	MINING	Ronak Sahoo
2	SUVENDU RANJAN BARAL	240301190017	MINING	Suwendu Ranjan Baral
3	KSHITRUD KUMAR SAHOO	240301190015	MINING	Kshirud K. Sahoo
4	KALYAN KUMAR SABUT	240301190016	MINING	Kalyan Kumar Sabut
5	AYUSHMAN JENA	240301190012	MINING	Ayushman Jena
6	SRIDHAN PATTANAYAK	240301190005	MINING	Sridhan Pattanayak
7	LIPUN CHOUDHURY	240301190018	MINING	Lipun Choudhury
8	Jyoti prakash palei	240301190009	mining	Jyoti prakash palei
9	Kunal Mohanta	240301190023	Mining	Kunal Mohanta
10	Subham Choudhury	240301190002	Mining	Subham Choudhury
11	MIHIR KISKU	230301190009	mining	Mihir Kisku
12	Snehasis Mondal	240301190006	Mining	Snehasis Mondal
13	Ankit Sahoo	240301190001	Mining	Ankit Sahoo
14	Dhruva Kumar Panigrahi	240301190003	mining	Dhruva Kumar Panigrahi
15	Manas Rout	240301190021	mining	Manas Rout
16	Anirban Ghadar	230301191013	mining	Anirban Ghadar
17	Abhimanyu Singh	230301190007	mining	Abhimanyu Singh
18	Somya brata Pradhan	230301190005	mining	Somya brata Pradhan
19	Sai Kumar Behera	230301191010	mining	Sai Kumar Behera
20	Aakash Katak	230301191016	mining (B.tech)	Aakash Katak
21	Hasthib Kumar Rajk	230301191014	mining	Hasthib Kumar Rajk
22	Sayan sen	230301191017	mining	Sayan sen
23	Suman Jena	221207150005	mining	Suman Jena
24	Jaydeep Maji	220301190004	mining	Jaydeep Maji
25	Subhansu Kiri Behera	221207151008	mining	Subhansu Kiri Behera

26	Sourav Kumar Mahanta	220301190003	Mining	Sourav Mahanta
27	Ayush Aryam Neik	210301190014	Mining	Ayush A. Neik
28	Sidhant Kumar Nanda	210301190005	Mining	Sidhant Kumar Nanda
29	Harisonkan Sahu	220301120032	Mining	Harison
30	Manoranjan Behera	220301190005	Mining	Manu
31	Ruph Kumar Sahoo	220301191007	Mining	Ruph
32	Priyabrata Samal	210301190002	Mining	Priyabrata Samal
33	Rajesh K. Panda	210301190018	Mining	Rajesh K. Panda
34	Satyabrata Rout	210301191022	Mining	Satyabrata Rout
35	Deepak Behera	231207150007	Mining	Deepak Behera
36	Ashish Bantikola	231207150012	Mining	Ashish Bantikola
37	Su. Abdul Rahman	231207150009	Mining	Su. Abdul Rahman
38	Anurag Raj	231207190009	Mining	Anurag Raj
39	Sagar Teeli	230301190004	Mining	Sagar Teeli
40	Asish Patra	220301190002	Mining	Asish Patra
41	Sunay Sahu	220301190001	Mining	Sunay Sahu
42	Ahijit Sahoo	210301190001	Mining	Ahijit Sahoo
43	Dibyanshu Rout Ray	210301190010	Mining	Dibyanshu Rout Ray
44	Mohit Kumar Ganyu	221207150004	Mining	Mohit K. Ganyu
45	Subrat Gai	231207150003	Mining	Subrat
46	Sachin Barik	231207150005	Mining	Sachin
47	H. Kason Kumbson	231207150004	Mining	Kason Kumbson
48	Gautam Kachhap	231207150001	Mining	Gautam
49	Anish Kumar Patra	231207150010	Mining	Anish Kumar Patra
50	Tanmay Saha	231207150015	Mining	Tanmay
51	Satendra Kumar	211207150003	Mining	Satendra Kumar
52	Sanjay Mahanta	210301190016	Mining	Sanjay
53	Sayan Chakraborty	210301190013	Mining	Sayan
54	Indradeep Mondal	210301191021	Mining	Indradeep

55	<del>210301190011</del>	<del>Joy Mishra</del>	<del>J. Mishra</del>	62
56	Joy Mishra	210301190011	Mining	Joy Mishra
57	Schhankash Sena	210301190019	"	Schhankash
58	Nipun Majumdar	210301190004	Min	Nipun
59	Ankit Singh	210301190003	Mining	Ankit
60	Sanket Kumar Nayak	24120710025	EE	Sanket
61	L. Laxman Rao	24120710029	EE	Laxman
62	Jagadev Das	241207150008	Civil	R. J. Das
63	Subham Jyoti	210301191020	Mining	Subham
64	Anika Parvita Mitra	210301190017	Mining	Anika Mitra
65	Sunamadeb Bhatnagar	210301190006	Mining	Sunamadeb
66	Subham (Subhadarshan)	230301191012	mining	Subham
67	Sudhansu Khatun	230301190006	mining	Sudhansu
68	Pratyush K. Patra	230301190003	mining	Pratyush
69	Pratik Singh	230301190008	mining	Pratik
70	Kishish Kumar Naik	230301191018	mining	Kishish
71	Chunil Mali	231207150002	mining	Chunil mali
72	Ankit Singh	210301190003	Mining	Ankit
73	Abhiman Sahani	230301190004	Mining	Abhiman
74	Baibhab Basudhan Chand	230301191019	Mining	Baibhab B. Chand
75	Swastik Mallick	230301190002	Mining	Swastik
76	Hritesh K. Sahoo	230301191011	Mining	Hritesh
77	Rohit Kumar Chope	24120710021	Mining	Rohit
78	Arunav Rath	241207140065	CSE	Arunav
79	Nishi Kanta Ojha	241207140052	CSE	Nishi
80	Rishabh Prayana Mishra	241207140058	CSE	Rishabh
81	Abhishek Das	241207140050	CSE	Abhishek
82	Biswajeet Mal	241207110032	EE	Biswajeet Mal
83	Om Prakash Rout	241207110032	EE	Om Prakash