

**Executive Development Programme**  
**on**  
**Technological Developments, Safety and Environmental Management in Mining**  
**Department of Mining Engineering, NIT Rourkela**  
**March 07-11, 2022**  
**Venue: FTBI Seminar Hall**

**PROGRAMME SCHEDULE**

Date & Day	Time	Particulars
07.03.2022 Monday	09.30 Hrs	Welcome Address
	10.00 Hrs	Technological advancements in opencast mining <i>Prof. H B Sahu, Dept. of Mining Engineering, NIT Rourkela</i>
	11.00 Hrs	Remote sensing based environmental management in mining <i>Prof. A K Gorai, Dept. of Mining Engineering, NIT Rourkela</i>
	12.00 Hrs	Safety Management Plan <i>Prof. F Sarkar, Dept. of Mining Engineering, NIT Rourkela</i>
	13.00 hrs	Lunch Break
	14.30 Hrs	Environmental clearance process for mining projects <i>Prof. H B Sahu, Dept. of Mining Engineering, NIT Rourkela</i>
	15.30	Salient Features of MMRD Act and Mineral Concession Rules <i>Sabyasachi Nayak, Mine Magma Pvt Ltd, Bangalore</i>
	16.30	Lab Visit: Mine Env. Engineering Water Quality Laboratory Analysis lab
08.03.2022 Tuesday	09.15 Hrs	Safe blasting practices in opencast mines <i>Prof. S Jayanthu, Dept. of Mining Engineering, NIT Rourkela</i>
	10.30 Hrs	Industrial waste utilization in mining <i>Prof. T Gupta, Dept. of Mining Engineering, NIT Rourkela</i>
	11.30 Hrs	Strategic planning to increase production from opencast mines – case studies <i>Prof. B K Pal, Dept. of Mining Engineering, NIT Rourkela</i>
	12.30 Hrs	Lunch Break
	14.30 Hrs	Slope Stability in Mines <i>Prof. M K Mishra, Dept. of Mining Engineering, NIT Rourkela</i>
	15.30 Hrs	Reliability analysis of HEMMS for performance improvement
	16.00 Hrs	Lab Visit: Rock Mechanics and Geo-mechanics Laboratory
09.03.2022 Wednesday	09.15 Hrs	Regulatory compliance under Forest Conservation Act and its implementation in mining industry <i>Ashwini Mohanty, Head, Resident Executive, Tata Steel</i>
	10.30 Hrs	Physiological hazards due to dust and Its control in mines <i>Prof. H B Sahu, Dept. of Mining Engineering, NIT Rourkela</i>
	11.30 Hrs	Eco-friendly Surface Mining practices <i>Prof. H K Naik, Dept. of Mining Engineering, NIT Rourkela</i>
	12.30 Hrs	Lunch Break
	14.30 Hrs	Waste Dump Design and Its Management <i>Prof R M Bishwal, Dept. of Mining Engineering, NIT Rourkela</i>
	15.30 Hrs	Interpersonal effectiveness and team building <i>Prof. Rajeev Panda, School of Management, NIT Rourkela</i>
	16.30 Hrs	Lab Visit: Coal Characterization and Mineral Processing Laboratory

10.03.2022 Thursday	09.15 Hrs	Updated technologies for solving mining problems <i>Prof. T Gupta, Dept. of Mining Engineering, NIT Rourkela</i>
	10.30 Hrs	Reclamation and Closure practices for Sustainable Mining <i>Prof. D P Tripathy, Dept. of Mining Engineering, NIT Rourkela</i>
	11.30 Hrs	Noise control in mines <i>Prof. A K Gorai, Dept. of Mining Engineering, NIT Rourkela</i>
	12.30 Hrs	Lunch Break
	14.30 Hrs	Mine Legislation in India and Role of Mining Officers <i>Sagesh Kumar, DGMS Nagpur</i>
	15.30 Hrs	Strategies for mitigating the impact of mining on water environment <i>Prof. H B Sahu, Dept. of Mining Engineering, NIT Rourkela</i>
	16.30 Hrs	Lab Visit: Mine Safety Engineering and Mine Survey Laboratory
11.03.2022 Friday	09.15 Hrs	Grade Control in Mining and how can it save your time <i>Prof B Samanta, Department of Mining Engineering, IIT Kharagpur</i>
	10.30 Hrs	Mineral wealth in Odisha and possibilities <i>Prof. H. K Naik, Dept. of Mining Engineering, NIT Rourkela</i>
	11.30 Hrs	Hazard identification and risk assessment in mining <i>Prof. H B Sahu, Dept. of Mining Engineering, NIT Rourkela</i>
	12.30	Lunch Break
	14.30 Hrs	Lab Visit: Mine Survey lab and Computer Laboratory
	15.30 Hrs	Group Discussion and Sharing of Experience
	16.30 Hrs	Valedictory Session

Coordinators: Prof. H B Sahu and Prof A k Gorai