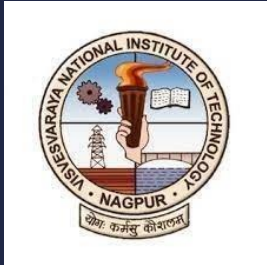


VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MINING
ENGINEERING PLACEMENT



**BROCHURE
2025-2026**



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Message from the Head of the Department and Brief Departmental Profile

Dear Reader,

The Department of Mining Engineering was established in 1982-83 and currently offers undergraduate (UG) Bachelor's and postgraduate (PG) Master's degrees in Mining and Excavation Engineering, respectively. The undergraduate (UG) course has been accredited by the National Board of Accreditation (NBA) during all previous audits. Recently, in 2022, both the UG and PG courses were accredited by the NBA until June 2025. The Department also offers a doctoral degree (PhD), awarded to 12 scholars, with 15 more currently enrolled.

The Department regularly extends its services to the industry through consultancy projects, a borehole testing facility, and organizing programs for executive development and continued learning. The Department can test rock specimens from exploratory boreholes with a total length of over 5 km annually. Executive development and continued-learning programs, such as short-term training programs (STTPs), workshops, and seminars, serve as perfect venues to gather and discuss the recent issues faced by the mining industry. Some of the major clients include Western Coalfields Limited (WCL), South-Eastern Coalfields Limited (SECL), MOIL Ltd., Mineral Exploration and Consultancy Limited (MECL), Central Mine Planning and Design Institute Limited (CMPDI), and SMS Pvt. Ltd

A large share of the Department's success can be attributed to its excellent rapport with several public and private industries through its vast alumni network. Further, the Department has recently signed a Memorandum of Understanding (MoU) with LGT Construction to organize and train candidates from both organizations in tunneling and excavation engineering. Under the MoU, the Department hosted the first batch of LGT candidates for a two-week training and certification program in February 2025. Subsequent batches will be hosted in the forthcoming months. The MoU serves as a pivotal step towards further advancement in tunneling.

I feel proud to have as my colleagues a diverse group of talented individuals zealously engaged in constant interaction with the scientific and industrial community through consultancy, RGD, and SGT projects. The Department aspires to inspire and be inspired by contemporary national and international mining institutes through regular faculty development activities and shares its developments by organizing seminars, workshops, and conferences for others to participate in. Faculty members from the department showcase their research contributions at several international conferences every year. My faculty colleagues and their achievements have helped to create a lively and enriching work culture, which we continually strive to uphold.

**Dr. A K Agarwal Associate Professor and Head,
Department of Mining Engineering, VNIT Nagpur**

FACULTY MEMBERS

S/N	NAME	DESCRIPTION	AREA OF RESEARCH	EMAIL ID
1	Dr.Ajay.K.Agarwal	HoD, Associate Professor	Slope stability, Water Pollution	akagarwal @mng.vnit.ac.in
2	Dr.Rajendra.R.Yerpude	Professor	MIS, Numerical Modeling, Safety Engineering. System Engineering	rryerpude @mng.vnit.ac.in
3	Dr.Nirajan.R.Thote	Professor	Blasting, Mine Environment, Rock Mechanics	nrthote @mng.vnit.ac.in
4	Dr.Ritesh.D.Lokhnade	Associate Professor	Rock Mechanics s Ground Control	riteshlokhande @mng.vnit.ac.in
5	Dr.Sandeep Panchal	Assistant Professor	Rock Mechanics s Ground Control, Pastefill technology, Blast induced ground vibration	sandeeppanchal @mng.vnit.ac.in
6	Dr.Nilkil.N.Sirdesai	Assistant Professor	Geomechanics, Novel Mining Methods, Engineering Geology, Soft Computing	nikhilsirdesai @mng.vnit.ac.in
7	Dr.Anupam.A.Kher	Assistant Professor	Mine Safety, Mine Ventilation and Mine System Engineering	anupamkher @mng.vnit.ac.in
8	Dr.Sumant Mohanto	Assistant Professor	Geomechanics, Rock Engineering Numerical Modelling in the Geotechnical domain, Soft Computing	sumantmohanto @mng.vnit.ac.in
6	Dr.Nachiket.V.Bhagade	Assistant Professor	Rock excavation Engineering, Damage Mechanics, Near-field Blast dynamics	nachiketbhagade @mng.vnit.ac.in



FACULTY MEMBERS

ADJUNCT FACULTY:

**DR. ISHWARDAS. L. MUTHREJA, RETD
PROFESSOR, VNIT**

**NON TEACHING STAFF: SHRI. P. S. KUBADE,
SYSTEM LAB - SHRI. M. D. KATOLE,**

ROCK MECHANICS LAB - SHRI. SAIRAM

MINE ENVIRONMENT Lab

SHRI. S. P. SAHASRABUDHE, SURVEY LAB

MS. ARCHANA, JUNIOR ASSISTANT

MR. RISHAB MISHRA, TECHNICIAN

MR. D. G. KALBANDE MR. SUMIT. J. MASKEY

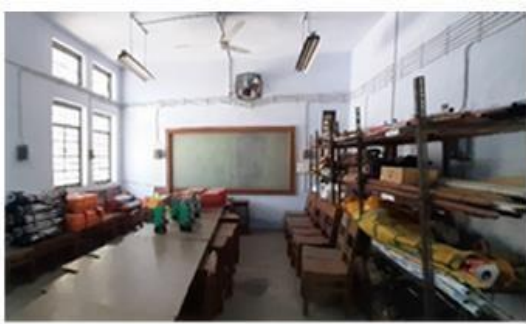
Departmental Laboratories



Rock Mechanics Laboratory



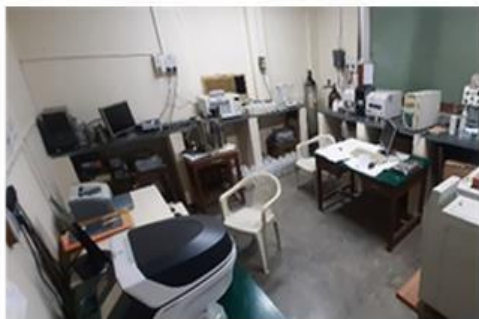
Mine Machinery Laboratory



Mine Surveying Laboratory



Excavation Laboratory



Mine Environmental Laboratory



System and Design Laboratory

Major Testing Facilities and Equipment

- Shimadzu Table-top XRF Spectrometer
- Digital Gas Chromatograph
- Atomic Absorption Spectrophotometer
- Microwave Digester
- Portable Cascade Impactor
- PM 2.5 Dust Sampler
- Respirable-type High Volume Sampler
- Weather Monitoring Station
- Digital Manometer
- Anemometer Calibration Setup
- Noise Dosimeter
- Digital Bomb Calorimeter
- Blasting Seismograph (4, 8 Channels) and VOD meter
- Computerized Universal Testing Machine
- Computerized Soil Triaxial Machine § Digital 1500 °C Furnace
- X-ray Fluorescence Spectrometer (XRF)
- Ultrasound Concrete Tester
- Auto level and Compass
- GPS
- Total Station
- Computerized 500 Kn
- Rock Compression Testing Machine
- Proceq PUNDIT Lab+ Ultrasonic Pulse Velocimeter I
- Complete setup for physicommechanical testing of rocks I
- Hydraulic-Jacking Support Testing Rig I
- Direct Shear Apparatus I
- CERCHAR Abrasivity Index Testing Apparatus I
- Digital Trinocular Stereo Microscope and Analysis Software
- Software Packages: RocScience, FLAC3D/2D/SLOPE, SURPAC, UDEC, ANSYS Workbench, FRAGALYST, SIMIO simulation software, Mathworks MATLAB, VUMA 3D, MS Project

Research Statistics

- The Department actively pursues research and development, especially in applied areas with emphasis on collaborative effort.
- The Department has completed two collaborative projects with Earth Resources Centre (UK) in the area of the Impact of Mining on Tropical Forests and with Camborne School of Mines (UK) in the area of Mining and Environment.
- The Department has been granted two patents and three more patents have been filed. Faculty members have successfully acquired research grants from industries and government organizations. So far, 7 projects worth over INR 3 crores have been granted to the department.

RESEARCH PROJECTS

Sl no	Research Project Title	Funding Agency	Investigator	Funds
1.	Risk Investigation for slope failure of benches & dumps using geo- technical characteristics of rocks & their monitoring mechanism in Dudhichua O/C mine of Northern Coal Field Limited.	Northern Coalfield Limited	Dr. R.R Yerpude Dr. I.L Muthreja Dr. A.K Agarwal Dr. R.D Lokhande	51.4
2.	Risk Investigation for slope failure of benches & dumps using geo- technical characteristics of rocks & their monitoring mechanism in Jayant O/C mine of Northern Coal Field Limited	Northern Coalfield Limited	Dr. R.R Yerpude Dr. I.L Muthreja Dr. A.K Agarwal Dr. R.D Lokhande	56.2
3.	Removal of metal ions contamination from mine water at deposit-14/11C and deposit 11B mines of BIOM	NMDC	Dr. R.R Yerpude Dr. I.L Muthreja Dr. A.K Agarwal Dr. R.D Lokhande Dr. S.P Zodape	7.1
4.	Physico-mechanical response of rocks under varied thermal environments	SERB-SRG	Dr. N.N Sirdesai	30
5.	Blasting & its effects on environment,buffer zone & protective measures of MOIL Ltd Mines at Dongri Buzurg Mine	MOIL	Dr. N.R Thote	4.5
6.	Feasibility Study of Flyash filling of O/C mine at Manikpur, Korba	Bharat Aluminium Company Limited	Dr. S. Wanjari Dr. Y.B Katpatal Dr. A.K Agarwal Dr. K.I Wasewar Dr. A.K Agarwal Dr. A.A Kher	69.5
7.	Development of Non-Explosive,High Voltage type Electric Spark Ignition(ESI) FIR Non-Electric Detonator	TEXMIN FOUNDATION IIT(ISM) Dhanbad	Dr. R.R Yerpude Dr. A.A Kher	18.53

CONSULTANCY PROJECTS

2024-25 (Consultancy)				
Name of faculty	Project Title	Funding Agency	Amount (Lakhs)	Duration (Years/Months)
Dr. A.A. Kher Prof. R.R. Yerpude Dr. R.D. Lokhande Dr. A.K. Agarwal Dr. N.V. Bhagade	Vetting of the work carried out by RockTech Engg Pvt. Ltd. Nagpur at NTPC Chetti Bariatu Coal Mine, Jharkhand	Rocktech Engg Pvt. Ltd.	4.97	14 months
Dr. R.D. Lokhande Prof. R.R. Yerpude Dr. S. Mohanto Dr. N.V. Bhagade	Scientific study for best suitable method of depillaring for Panel No. 38 with maximum percentage extraction in 1 st and 2 nd lift with hydraulic sand stowing in DRC, WCL	WCL	9.55	6 months
Dr. A.A. Kher Dr. N.V. Bhagade Dr. R.D. Lokhande Dr. S. Panchal Dr. S. Mohanto	To conduct a scientific study to determine the effect of blasting on GAIL's DPPL natural gas high pressure pipeline near village Visapur-Latvan, SH-96 road, Taluka:Dapoli, Ratnagiri District (M.H.)	GAIL	13.69	6 months
Dr. N.V. Bhagade Dr. A.A. Kher Dr. R.D. Lokhande Prof R.R. Yerpude	Scientific study to determine the impact of blast-induced ground vibrations on Bhadravati Fort and Vijasan Ancient Caves at Bhadravati, Chandrapur Dist. (M.H.)	KPCL	8.31	3 months
Dr. A. A. Kher Dr. R. D. Lokhande	Scientific study for the determination of RMR and crossing point temperature of coal samples of Ketki Mine of SECL	SMS Ltd.	5.90	3 Months

Prof R.R. Yerpude Dr. A. K. Agarwal Dr. S. Mohanto				
Prof. Thote	Blasting evaluation of Urdhan OC Mines of PENCH area	WCL	4.95	3 Months
Prof. Thote	Safety Audit of Balaghat Mines	MOIL	3.86	3 Months
Dr. R. D. Lokhande Prof R.R. Yerpude Dr. N.N. Sirdesai Dr. S. Mohanto	Scientific study to investigate the stability of benches and internal and external dump of IBOCM KPC of EMTA Coal Pvt Ltd	EMTA Coal Pvt Ltd	8.85	3 Months

LIST OF PATENTS

Sl No.	Patent Title	Faculty Name	Application No. with Date	Status
1	Efficient Zn ⁺⁺ ions removal techniques from aqueous solution using mixture of fly ash and chitosan and its environmental friendly disposal by solidification with Portland Cement	Dr. A K Agarwal, Dr. I L Muthreja	5858/MM/2014 02/06/2014	Patent Granted No (327366)
2	Utilisation of Coal Fly Ash of Thermal Power Plant in Conjunction with Chitosan for Efficient Removal of Different Heavy Metal Ions and their solidification for safe solid waste disposal	Dr. A K Agarwal, Dr. I L Muthreja	3619/MUM/2014 A Nov,2014	Patent granted No (374208)
3	Determination of Roof fall safety Index (RFSI) for Underground Coal Mine	Dr. A. A Kher, Dr. R. R Yerpude	201721025044A July 2017	Published On 10/11/2017
4	Development of stoping Index for the Selection of Optimum Stopping Method for Underground Hard Rock Mine	Dr. A. A. Kher	201721028796	Published On 01/12/2017
5	Solar Powered Pre-Heater for Boilers using Fresnel Lens	Dr. A K Agarwal	20191028311	Published On 16/08/2019

Awards and Honors

- Dr A A Kher has been awarded a Grant of Rs 232.00 lakhs for establishing the TEXMiN-Mining Cyber Physical Systems (CPS) Center of Excellence.
- Prof. I. L. Muthreja is a Nominating Member of the Prestigious Infosys Award 2016
- Prof. I. L. Muthreja was appointed to the National Advisory Board of the National Conference on “Recent Advances in Mining Technology” (RAMT-2016) at AIT, Bengaluru May 2016
- Prof. N. R. Thote was awarded Dr. A. H Reddy Award instituted by IMEJ for outstanding contribution to research
- Prof. N. R. Thote has been appointed as a member of the Peer Review Committee of the National Institute of Rock Mechanics (NIRM), Bengaluru
- Prof. N. R. Thote has been appointed as a member of the GATE Syllabus Review Committee by IIT Kharagpur
- Prof. N. R. Thote has been appointed as an Expert Member for Recruitment Principles and a Member of the Research Review Committee by DBATU University, Lonere

- Dr. R. D. Lokhande was awarded the INSTITUTION Award/Prize (2018) for best paper in the Journal of Institution of Engineers (India)-Series D (Springer), at the 34th Indian Engineering Congress at Hyderabad on 27th December 2016
- Dr. R. D. Lokhande has been appointed as a committee member by the Technical Board, Mumbai, Government of Maharashtra for curriculum revision at Government Polytechnic Nagpur
- Dr. N. N. Sirdesai was Awarded the 5th Youngs Scholar's Symposium on Rock Mechanics (YSRM) Japan 2016
- Dr. A. A. Kher has been awarded a grant of 30 Academic Licenses worth USD 72000 by Simio LLC USA for research and teaching in simulation.
- Dr. N. N. Sirdesai was Awarded The 5th International Scholar's Symposium on Rock Mechanics (ISRM) Japan 2016
- Dr. N. N. Sirdesai has been appointed as a member of the Editorial Board for the SCOPUS Index Journal: Bulletin of Engineering Geology and the Environment (I.F.: 3.041

Dr. N. N. Sirdesai receiving YSRM AND ISRM award, 2016



Dr. A.A Kher receiving exchange of letter(LOI)for the Mining CPS Centres of Excellence (CoEs) between TexMin IIT(ISM) Dhanbad and VNIT Nagpur : 1st Feb 2025



Latest International Journals

- Nishant Singh Choudhary, M D Goel, Sandeep Panchal, (2025), Blast mitigation performance of vertically partitioned cylindrical structures, International Journal of Protective Structures.
- S.D Kularkar and N.R Thote. "TBM Performance Prediction Using Statistical and Machine Learning Algorithms: Case Study of Slurry TBM Used in Mumbai Metro Rail Tunnel Line -3(UGC-03),India". Journal of Geological Society of India, 101(2), 149-162. (2025)
- C.V Ramana, N.R Thote and A.K Singh. "Analysing Slope Stability in Response to Blast-Induced Dynamic Loading by Pseudo-Static Approach". Journal of Mines, Metals and Fuels 72(2).(2024)
- C.V Ramana , N.R Thote and Arun K. Singh." Numerical Investigation into factors affecting stability of O/C coal mines Rise side Highwal Slope". Journal of Mines, Metals & Fuels 72(1).(2024)
- Anupam Anant Kher, R.R Yerpude. "Application of Ranking Methods for Evaluation of Critical Factors involved in Roof Fall Fatal Accidents in Indian U/G Coal Mines". Journal of Institution of Engineers(India):Series D: 1-9 (2024)

- Abhishek Khuspare, Ajay Parmar, Ajay K. Agarwal and Swapnil P.Wanjari."Characteristic Study of Polycarboxylate Ether Sand as a Potential Substitute for Natural River Sand in Construction Industry." *Journal of Materials in Civil Engineering* 36, no.6: 04024137.(2024).
- N. Dwiedi, R.D Lokhande. :Impact of Porosity on U/G Structure-A Review". *Journal of Mines, Metals and Fuels*,72(5),pp. 439-454.(2024)
- S.Panchal ,S.S Ronghe and R.D Lokhande." Correlation between Static and Dynamic Young's Modulus of Elasticity of Different Types of Rocks". *International Journal of Geology and Earth Sciences*, Vol.10, NO.1.(2024).
- S.Verma,N.N Sirdesai, M.D Goel, M.Maeder, S.Marburg. "The Role of Cooling on the physical-mechanical response of Thermally treated Jodhpur Sandstone: A Major Heritage Stone in India ". *Geoheritage*,16(4),132.(2024).
- V.Jiwane , G.Tiwari, M.D Goel , N.N Sirdesai , K.P Venkateswaran." Crashworthiness of Ultrathin Aluminium Honeycomb Structure". *Mechanics of Solids*,59(3),pp. 1588-1602.(2024).
- S.Mohanto,D.Deband A. Senapati."Stability Assessment of Crown Pillar for an U/G Mine usingK-Cross Validation Technique." *International Journal of Civil Infrastructure of Civil Infrastrucure* 07. doi: 10.11159/ijci.202.008.(2024)

- J. Mandal, M. D. Goel, and A. K. Agarwal (2021), Underground structures subjected to various blast scenarios: A scoping review, Archives of Computational Methods in Engineering, 1886-1774
- P. Sahu, R. D. Lokhande, M. Pradhan, and R. Jade, (2021) "The influence of geotechnical parameters on Sinkhole subsidence and its model development for underground Coal Mines in Central India", Journal of Mining Science, 57(2), 220-228
- S. K. Somu and R. D. Lokhande, "Study on the effect of surface subsidence due to tunneling under various loading conditions". Journal of Geotechnical and Geological (Springer), Vol 40, 623-643.
- Mohanto S. and Deb D, (2020) "Prediction of Plastic Damage Index for Assessing Rib Pillar Stability in Underground Metal Mine Using Multi-variate Regression and Artificial Neural Network Techniques". Geotechnical and Geological Engineering, 38(1), 767-760
- A.K Agarwal, "Kinetic Behavior for the Adsorption of Different Metal Ions on Fly Ash", Journal of Chemical Technology s Metallurgy 56 (4), 2021, PP 775-781

Major STTP/Workshop/Seminar organized by the Mining Engineering Department

- National Seminar on “Recent Practices and Advancement in Mineral Industry (RPAMI)”, February 2020, Nagpur
- STTP on “Mining Excavations in Difficult Ground Conditions: Issues s Challenges” (July 6 – 13, 2018)
- Professional Development Courses on "Stability of Slopes and Waste Dumps in Surface Mines" and "Safety Management and Risk Assessment in Mines" for Mining Executives
- STTP on” Theory s Practices in Rock Mechanics Design Applications to Mining s Infrastructure Industry”, (January 16-20, 2024)
- STTP on “ Rock Mechanics “ (October 15-19, 2024)
- Tunnel Engineering Certification Program for L&T Batch 03 (December 03-13, 2024)
- Tunnel Engineering Certification Program for L&T Batch 04 (March 17-28, 2025)

Our Clients



WESTERN
COALFIELD
LIMITED



Manganese Ore (India) Limited



MECL



SECL

South Eastern Coalfields Ltd.

Northern Coalfields Limited Recruitment



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A Mini Ratna Company

Student Activities

- **Class Committees:** for academic review
- **Departmental events:** Teachers' Day, Engineer's Day Swachh Bharat Abhiyan Vigilance Awareness Week organized by Western Coal Fields Limited Student Mentorship Programmes
- **Institute Clubs Involvements:** AXIS, AAROHI, PRAYAS, E-Cell, MAG, SHELL, HALLA BOL, EUPHORIA, SAMVAD, PICHMANTRA
- **Inter-Institute Events Involvements:** KHANAN by IIT KGP, MINOVATION, MENSURA, GREAT STEP, SMART INDIA HACKATHON, IITM PARADOX, YOUTH EMPOWERMENT SUMMIT, LITMUN, LISCAD, INTER-NIT SPORTS MEET



Teachers' Day celebration in the Department, 2024



Institute Gathering, 2025



Gate'25 Results

B-tech 2025 Passouts

Name	GATE Rank	Score
Ayush Choudhary	76	678
Rakshit	92	664
Mohit Raj Singh	133	625
Garvit Heaoo	288	568
Danish Rana	253	553

B-Tech 2026 Passouts

Name	GATE Rank	Score
Ayush Kumar	8	866
Akash Kumar	51	712
Debsubhra Nag	105	645
Akshat Kumar Sinha	208	577
Harsh Rathod	400	505

ACHIEVEMENTS

S/N	NAME	ACTIVITY	VENUE	POSITION
1	Gautam Kumar, Harsh Lohar	INTER-NIT VOLLEYBALL	NIT-Warangal	League stage
2	Shubham Yadav, Astha Admane	Athletics	VNIT SURATKAL	League Stage
3	Talele Yash Kiran	INTER NIT KHO KHO	NIT CALICUT	4 th PLACE
4	Ayushi Gupta	BASKETBALL	AIIMS Nagpur	1 st PLACE
5	Mohini Bavistale, Kunal Ambule, Devika, Shibadhri	Stage Play	IIT Kharagpur	3 rd PLACE
6.	Mirza Majid Raza	INTER NIT KABADDI	NIT-TRICHY	League Stage
7.	Indhumathi Neerati	INTER NIT KABADDI	NIT-TRICHY	League Stage
6	Debsubhra Nag, Manjeet kumar, Krushna Birar, Bhushan Sharma	Great Step 2025 Case study Competition (Petro case study, Enviro case study)	IIT Kharagpur	Was listed as one of the top 10 teams among 50 teams across India
7	Gautam Kumar, Harsh Lohar	VOLLEYBALL	RAMDEV BABA INTER COLLEGE SPORT EVENT	2 nd PLACE
8	Tanas Adhikari	Spring Fest-Stage Dance	IIT Kharagpur	League Stage



Great Step '25 (IIT KGP)



Inter-Nit Kabaddi '25



Stage Play (IIT KGP '25) - Hallabol



Intern-Nit Athletics '25



WCL Vigilance Week '25(Winners)



Inter-Nit Volleyball '25

Students Study Tours and Industrial Visits



Umred Open Cast Coal Mine Visit - 3rd Year, November 2024



Mine Visit - Post Graduate students (Dongri Buzurg Open Cast Metal Mine, MOIL, April 2025)

COLLECTIVE SKILLSETS

- **PROGRAMMING LANGUAGES:** HTML, C, C++, JAVA, PYTHON, XML, KOTLIN, DART, JAVASCRIPT, KML, REACT, SQL, POSTGRESQL, NODEJS, DATA STRUCTURE AND ALGORITHM(DSA)
- **SOFTWARE TOOLS/OTHERS FRAMEWORKS AND LIBRARIES:** DJANGO (WEB DEVELOPMENT), REACT NATIVE (MOBILE DEVELOPMENT), FLUTTER (MOBILE AND CROSS PLATFORM DEVELOPMENT), PANDAS (DATA ANALYSIS), NUMPY (NUMERICAL COMPUTING), TENSORFLOW (DEEP LEARNING), KERAS (DEEP LEARNING), OPENCV (COMPUTER VISION), PYTORCH(DEEP LEARMACHINE), EXCEL, FLAC, ROCKSCIENCE, BLUEPRINT, BLASTWARE, GSUITE, OFFICESUITE.
- **LEARNING AND AI:** NEURAL NETWORKS, LSTM, SELF ORGANIZING MAPS, CLASSIFICATION, CLUSTERING, REGRESSION ANALYSIS, GRAPH NEURAL NETWORKS, DEEP LEARNING, CNN, ANN, RNN, KERAS, TENSORFLOW MOBILE AND WEB DEVELOPMENT: ANDROID DEVELOPMENT, DJANGO, REACT NATIVE, UNIT TESTING, FIREBASE, AWS, GOOGLE CLOUD, FLUTTER COMPUTER VISION: OPENCV, IMAGE SEGMENTATION, PATTERN RECOGNITION IOT: ARDUINO IDE, ESP32 CLOUD COMPUTING AND BACKEND DEVELOPMENT: AWS, FIREBASE, AZURE, GOOGLE CLOUD, REST API, FAST API, MYSQL, NOSQL SIMULATION: FINITE ELEMENT METHOD, NUMERICAL SIMULATION, AUTOCAD AR/VR/XR: UNITY3D, BLENDER, ARCORE, ARKIT.

- **SOFTWARES:** STAAD.PRO, ETABS, RCDC, LS-DYNA, AUTODYN, ABAQUS, FLAC2D, RS2, SLIDE, DYNAMIC ANALYSIS
- **FINITE ELEMENT ANALYSIS (FEA):** ADVANCED PROFICIENCY IN ABAQUS AND LS-DYNA FOR MODELING AND SIMULATION OF COMPLEX STRUCTURAL PROBLEMS, INCLUDING STATIC, DYNAMIC, AND THERMAL ANALYSES, RMR, Q- SYSTEM, NATM
- **SPLIT HOPKINSON PRESSURE BAR (SHPB):** HANDS-ON EXPERIENCE IN DESIGNING, CONDUCTING, AND ANALYZING HIGH STRAIN RATE EXPERIMENTS USING SHPB TO DETERMINE DYNAMIC MATERIAL PROPERTIES OF ROCKS. DATA ANALYSIS AND TECHNICAL REPORTING. EXPERIMENTAL SKILLS ALONG WITH SOFTWARE (RS2, STATISTICAL ANALYSIS AND MSOFFICE) AND MARKETING. JOINT MAPPING, ROCK MASS CLASSIFICATION (RMR, Q- SYSTEM, AND GSI)
- **GEOLOGICAL MAPPING, TUNNEL DESIGN. SPECIALIZATION:** MICRO AND MACRO ROCK CHARACTERISATION, BLAST AND IMPACT, THERMAL CHARACTERISATION OF ROCKS, EXCAVATION ENGINEERING, ROCK MECHANICS, TUNNEL DESIGN, PROTECTIVE STRUCTURE UNDER BLAST LOADING, BLAST ANALYSIS OF STRUCTURES, UNDERGROUND STRUCTURE MODELLING, TUNNEL DESIGN, SLOPE STABILITY, SLOPE ENGINEERING.

CONTACT US

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