

Nikhil Sirdesai

Research Scholar

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RESEARCH THEME

Numerical and experimental study of rocks under very high temperature conditions: Underground coal gasification.

KEY ACADEMIC PROJECTS

M.Tech: Design of Roof Support System for Underground Mines.

B.Tech: Anchorage Pull-Out Test of Fully Grouted Rock Bolts.

UGC Funded Project: Study and Design of Fully Grouted Rock Bolts.

KEY ACADEMIC ACHIEVEMENTS

- Cleared the highly prestigious Indian Institute of Technology - Joint Entrance Examination (IIT-JEE) with an All India Rank of 4986.
- Awarded 'Dr. Homi Bhabha Young Scientist' Award, by the Greater Bombay Science Teachers' Association, twice in 2003-04 and 2001-02
- Cleared the 'Sambodh', 'Pravinya' and 'Pragnya' Mathematics Talent Search, conducted by Thane District Mathematic Teachers' Association, twice with distinction in 2002-03 and 1999-00

POSITION OF RESPONSIBILITY

- Supervising practical and theory classes for masters' students as teaching assistant, IIT Bombay, 2013-2014.
- Worked with Monnet Ispat and Energy Limited as a Management Technical Trainee from September 2012 to June 2013 and looked after:
 1. Shift operations with special focus on the working of Universal Drilling Machine.
 2. Ensure that all the safety instructions are followed during the shift.
- Was the Training and Placement Representative of the Mining Dual Degree Batch
- Was the Class Representative during 2nd and 3rd year of graduation

COMPUTER SKILL

- **OS:** Windows, Linux
- **Numerical Modeling Software:** Plaxis, Flac 2D, UDEC, Phase, Slide, ABAQUS, COMSOL Multi-physics
- Corel DRAW X5, Adobe Illustrator, Photoshop CS, Origin, Surfer

AWARDS AND RECOGNITIONS

- Won several quizzes, debates and science fests held in schools and colleges.
- Won several awards in shloka recitation and Sanskrit grammar.
- Participated in 'TECHNEX', annual technical festival of IT-BHU, and secured 2nd position in the Motor-Boat modeling and design competition.

- Practiced the art of REIKI –Japanese Art of Natural Healing and attained the position of second degree master.

PUBLICATIONS

1. P K Singh, Ashutosh Kainthola, DG Roy, **N N Sirdesai**, V Maji, T N Singh (2013)
Empirical and numerical solutions for slope stability analysis of cut slopes in mountainous areas, International conference on future challenges in ESEMR, 14-16 November, 2013, ISM Dhanbad, Jharkhand