

RESUME

Saurabh Kumar

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Areas of Interest: Geotechnical and Foundation Engineering, Rock Engineering, Engg. Geology, GIS & Remote Sensing, Surveying and Railway Engineering

Educational Qualifications	Year	Board / Institute	CGPA* / %
Ph.D.	2021	Motilal Nehru National Institute of Technology Allahabad, Prayagraj [U.P.]	7.75
M. Tech.	2011-2013	Motilal Nehru National Institute of Technology Allahabad, Prayagraj [U.P.]	6.90
B. Tech.	2006-2010	Hindustan College of Science and Technology, Farah, Mathura [U.P.]	62.04
Intermediate	2006	Radha Ballabh Inter College, Agra [U.P.]	76.60
High School	2004	Radha Ballabh Inter College, Agra [U.P.]	59.90

PROJECTS

MNNIT Allahabad [M.Tech.]

Analyzing and mitigation of Liquefaction Hazards [1 year]

Conducted the SPT test along the Ganga and Yamuna river at different Ghats locations and different locations inside the Allahabad city. Collect the soil sample from the SPT test conducted and identified the ground water level from different locations in Allahabad city. Study with three different conventional methods and identified the liquefiable conditions. Suggest the mitigate methods for Liquefaction.

HCST Mathura [B.Tech.]

Soil Nailing Technique [1 year]

The objective of study was to determine the detail study about the Soil nailing technique, its applications, Procedure and current sites in India. The Soil nailing technique is very effective approach for slope stability in hilly region. Detail study of Nails type and their parameters. How and where its implication.

WORKING EXPERIENCE

College: Shambhunath Institute of Engineering and Technology [Joined 17 Dec 2020- cont...] Conduct the lecture of Surveying & Geomatics and Railway Engineering, Foundation Engineering and GIS & Remote Sensing.

College: Shambhunath Institute of Engineering and Technology [2 years 3 months] from 13 Aug 2013 to 30 Nov 2015.

Conducted the lecture of Geotechnical Engineering, Foundation Engineering, Surveying and Railway Engineering.

Company: Rational Construction, Allahabad. [10 months] from 10 Sep 2010 to 30 June 2011.

The construction of road over bridge at Bindaki X-ing, near Bindaki Station, Jakhoda X-ing, Agra-Jhansi line, Agra under the contract of Indian Railway. Perform the Site Survey, pile installation and super structure construction work for Two way two lane road over bridge.

COMPUTER SKILLS:

- Basic knowledge of Computer applications.
- Plaxis, RocScience Dips, Rocfall, Phase2, RocLab, Origin, PANalytical X'Pert High score, Surfer.

TECHNICAL SKILLS:

- Can handle Geotechnical engineering practical, Rock engineering practical, Engineering Geology lab and Survey lab.

PUBLICATIONS:

- **Journals:**

1. **S. Kumar**, H. K. Pandey, K. Venkatesh, P. K. Singh (2018) “Demarcation of probable failure zones based on SMR and Kinematic analysis” Journal of Geomatics, Natural Hazards and Risk, [DOI: 10.1080/19475705.2019.1618399]
2. H. K. Pandey, V Tiwari, **S Kumar**, A Yadav, S K S (2018) “Groundwater Quality Assessment of Allahabad Smart City using GIS and Water Quality Index”, Journal of Sustainable water resource management, [Manuscript Id: SWAM-D-18-00135].
3. **S. Kumar**, H. K. Pandey (2019) “Slope stability analysis based on rock mass rating, geological strength index and kinematic analysis in Vindhyan rock formation” Journal of the geological society of India, [JGSI-D-19-00363].

- **Book Chapters:**

1. **Saurabh Kumar**, H. K. Pandey (2019) “Rock Mass Rating and Geological Strength Index relationship for rock along State Highway-5 at Markundi Hill, Sonbhadra (U.P.)” ARICE-2019, Kochi, Kerala, 13th-14th June 2019, [doi: 10.1007/978-981-15-5644-9_26].

- **Conferences:**

1. Abhishek Gautam, Venkatesh Kumar, **Saurabh Kumar** (2019) “Consolidation of Sequential Construction of Embankment Using Non-Homogeneous Soil Stratum”

International Conference on Geotechnics for High Speed Corridors, 24th- 27th July 2019, Thiruvananthapuram, Kerala, [paper ID: 85].

2. **S. Kumar**, H. K. Pandey, K. Venkatesh (2019) “Kinematic Analysis of Rock cut slope along SH-5 at Markundi, Chopan, District- Sonbhadra (U.P.)” Indian Conference on Geotechnical and Geo-Environmental Engineering, 1st -2nd Mar, 2019, [Paper ID: 14, pp. 14].
3. Abhishek Gautam, **Saurabh Kumar**, H. K. Pandey, K. Venkatesh (2019) “Utilization of Slake Durability and Point Load Test to establish the relationship for UCS of Markundi Sandstone, Markundi, Sonbhadra (U.P.)” Indian Conference on Geotechnical and Geo-Environmental Engineering, 1st -2nd Mar, 2019; [Paper ID: 138, pp. 15].
4. **S. Kumar**, H. K. Pandey, K. Venkatesh (2017) “Geological and Geotechnical characterization of rock cut slope along State Highway-5 at Markundi hill, Chopan, Sonbhadra, (U.P.)” 4th Indian Landslide congress, 8th -9th Dec, 2017, IIT Bombay, [ID: ILC2017_No_38].
5. S. Sinha, K. Venkatesh, H. K. Pandey, **S. Kumar** (2017) “Stability Analysis of Rock Slope using Numerical Approach” 4th Indian Landslide congress, 8th -9th Dec, 2017, IIT Bombay, [ID: ILC2017_No_43]

WORKSHOPS / SHORT TERM COURSES / TRAININGS

- [1] Attended 2 week course by iRALL School 2019 on “Field data collection, monitoring and modelling of large landslides” during 20th October-2nd November 2019, Chengdu, China
- [2] Attended Seminar on Landslide Analysis and Mitigation [LAM-2018] at Indian Institute of Technology Roorkee.

- [3] Attended workshop on Foundation: Analysis, Design and Construction Technique [FACT-2018] at Motilal Nehru National Institute of Technology Allahabad.
- [4] Attended workshop on Recent Advances in Geotechnical Engineering [RAGE-2018] at Motilal Nehru National Institute of Technology Allahabad.
- [5] Attended Training of TerrSet Software, for Integrated GIS & Digital Image Processing [2017] at Motilal Nehru National Institute of Technology Allahabad.
- [6] Attended Geotechnical Engineering Quiz[GEQ-2012] at Sardar Vallabhbhai National Institute of Technology Allahabad.

MEMBERSHIP OF PROFESSIONAL SOCIETIES & ORGANIZATIONS

- [1] Lifetime member of Indian Geotechnical Society [IGS], India.
- [2] Lifetime member of American Society of Civil Engineer [ASCE]
- [3] Reviewer in SN Applied Science journal

PERSONAL DETAILS

Father's Name: Suresh Chandra
Date of Birth: July 5, 1989
Gender: Male
Contact No: +91- 7905795993

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