



Ms. Nisha Kumari

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WORK EXPERIENCE

2 Years teaching (Round off) and 4.5 years Research

AGE

30

CAREER OBJECTIVE

To work in a challenging and competitive environment as to get an opportunity to learn new skills for personal growth and contribute to the organizational objectives.



Education

PhD (Pursuing)

Dynamic Response Analysis of Wall Retaining Granular Fill

College Name: Delhi Technological University, Delhi

Course work marks **9.00** (pointer) (Distinction)

M.Tech in Soil Mechanics and Foundation Engineering (Graduated; 2014)

College Name: NIT Kurukshetra, Kurukshetra Haryana

Marks **9.35** (pointer)(Distinction)

B. Tech in Civil Engineering (Graduated; 2012)

College Name: University College of Engineering, Kota

Marks 72.95% (Honours)

10+2 (Physics, Chemistry, Math) Graduated; 2007

N.B.V. Sen. Sec. School, Nohar

Marks 77.38 % RBSE Board (Division 1)



Publication in International Journals

1. Kumari, N., & Trivedi, A. (2020). "Energy Harvesting from Ambient Vibration in Retaining Structure due to Traffic Movement". *Journal of Infrastructure Engineering* (Under Review).
2. Kumari, N., & Trivedi, A. (2020). "Piezoelectric Energy Harvesting from Structures Subjected to Vibration of Moving Loads". *Pramana- Journal of Physics* (Under Review).



Publication in Conferences

1. Kumari N., & Trivedi, A. (2018) "Application of semi active control strategy for the wall retaining granular fills". In: Proceeding of China-Europe conference on geotechnical engineering, SSGG. Springer, Aug 13-16, pp 978–982. https://doi.org/10.1007/978-3-319-97115-5_20

2. Kumari, N., & Trivedi, A. (2019) “The Application of PZT Patch as Energy Harvester in Dynamically Loaded Retaining Structures” in International Symposium on Testing and Technology for Load Carrying Capacity of Deep Foundations on February 26, 2019 Delhi, India.
3. Kumari, N. & Trivedi, A. (2020). Vibration Control of Flexible Retention Systems. Advances in Computer Methods and Geomechanics, Lecture Notes in Civil Engineering, Springer, Singapore, 2(56), 529-539. https://doi.org/10.1007/978-981-15-0890-5_44
4. Kumari, N., & Trivedi, A. (2020). Semi-active Control Strategy for Horizontal Dynamic Loading on Wall Retaining Granular Fills. In Sustainable Civil Engineering Practices (pp. 71-79). Springer, Singapore. https://doi.org/10.1007/978-981-15-3677-9_8



Work Experience

1. **July 2015-July 2016 (Assistant Professor)**
Chandigarh Group of Colleges, Jhanjeri, Mohali, Punjab
Subject Teaching: Geotechnical Engineering, Fluid Mechanics, Irrigation Engineering, Estimation and costing, Survey training
2. **August 2014- July 2015 (Assistant Professor)**
Himalayan Group of Professional Institute, Kala Amb, Sirmour, Himachal Pradesh
Subject Teaching: Soil Mechanics, Fluid Mechanics, and Transportation Engineering



Skills & Abilities

Computer Proficiency

- Familiar with ABAQUS
- Familiar with STADD PRO
- Familiar with C language
- Microsoft Office

Professional Skills

- Project Management
- Resource Management
- Market and Product Knowledge
- Information Management
- Adaptability & Flexibility
- Good Emotional Intelligence



Projects

- **M.TECH THESIS WORK:** Effect of Placing of Multiple Layers of Geogrid on Bearing Capacity of Desert Soil.
- **PROJECT NAME :** Soil Exploration for Various Civil Engineering Works from SPT(M.Tech 2nd Sem Project)
- **PROJECT NAME :** Soil Exploration For Various Civil Engineering Works (M.Tech 1st Sem Project)

- **PROJECT NAME:** Design of Raft Foundation (B.Tech Final Year Project)



Short Term Courses and Presentation

- Attended six-day workshop on “Exploring Engineering”, DTU Delhi during PhD.
- Attended five day workshop on “E-Resources: A Gateway for Research”, DTU Delhi during PhD.
- Attended Short Term Course on “Disaster Mitigation and Management” DTU Delhi during PhD.
- Attended the national level training program on “Geo-Meteorological Hazards Risk Management”, DTU Delhi.
- Participated in MHRD sponsored GIAN course on “Geotechnical Structures with Geosynthetics, Reinforcement and Confinement”, DTU Delhi.
- Attended one-day joint workshop on “Patent Filing Procedure”, DTU Delhi.
- Presented two Research papers in International Conference on “Emerging Technologies” N. C. College of Engineering, Panipat.



Summer Training

Summer Training 1:

Organization Name: SMS PARYAVARAN LTD., KOTA

Techniques & Technology Learned: Construction of Sewage Treatment Plant based on SBR 30 MLD

Duration: 4weeks



Academic Achievements

- Secured **Distinction** Marks In PhD Course Work
- Secured A grade in GIAN Course on Geotechnical Structures with Geosynthetics , Reinforcement and Confinement, DTU Delhi
- Got **Honours Degree** in B.Tech.



Additional Achievements

- Worked As Coordinator in Various Committees in University Level Tech Fest, UCE Kota.
- Worked As Secretary of Discipline Committee in Girls Hostel, UCE Kota.
- Worked As Coordinator in International Symposium on TTBCDF under the Aegis of Geoindia, DTU Delhi.
- Worked As Volunteer in National Level Training Programme on GEO-METEOROLOGY HAZARDS RISK MANAGEMENT, DTU Delhi.



Languages

- English
- Hindi



Personal Interests

- Cardio and Aerobics
- Reading
- Travelling



Personal Details

Father's Name: Mr. Ashok Soni
Present Address: YS Girls PG, Rohini 17, New Delhi-110089
Permanent Address: Behind of chachan katla, bihani marg, sector 5, Nohar, Hanumangarh, Rajasthan, 335523
Birthday: Mar 18, 1990
Nationality: Indian
Gender: Female



References

- Prof. A. Trivedi, Professor in Civil Engg. Dept and Dean IRD of Delhi Technological University Delhi.
- Prof. V. K. Arora Professor in Civil Engg. Dept and Former Director of NIT Kurukshetra.



Declaration

I, Nisha Kumari, hereby declare that the information contained herein is true and correct to the best of my knowledge and belief.