



DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE Affiliated to JNTU Kakinada)

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FACULTY PROFILE

Name of the Faculty: Mrs. V. BHAVITA CHOWDARY

Designation: Assistant Professor

Areas of Research:

Geotechnical Engineering, Ground Improvement,
Sustainable materials for construction

Academic Background:

Ph.D. (Pursuing), National Institute of Technology Warangal, Warangal, Telangana, India.

M.Tech.(Geotechnical Engg.), National Institute of Technology Warangal, Warangal, Telangana, India.

B.Tech. (Civil Engg.), G. Pullareddy Engineering College, Kurnool, Andhra Pradesh, India.

Teaching Experience: 3 years

1. Assistant Professor, DhaneKula Institute of Engineering and Technology, Ganguru, Vijayawada, Sep 2022 - till date
2. Assistant Professor, Vignan's University, Vadlamudi, Guntur, Jan 2013 – June 2015
3. Assistant Professor, Priyadarshini College of Engineering and Architecture, LTJSS, Nagpur, July 2012 to Dec 2012

Achievements / Scholarships:

- Acted as one of the chairs for the International Conference on “Innovative and Sustainable Technologies in Civil Engineering 2021”, organized by Bapatla Engineering College, Bapatla, A.P., India.
- Served as a reviewer for publications in “IOP Conference Series: Earth and Environmental Science”.
- Received MHRD fellowship for Ph.D. during 2015-2020
- Received GATE Scholarship from MHRD, India during M.Tech. (2010-2012)
- GATE-2010, Organized by IIT Guwahati, Score: 419 (Qualified)
- Received cash awards as class topper during my B.Tech studies.

List of Publications:

International Journals:

- Bhavita Chowdary, V., et. al., (2022). Efficacy of slag based geopolymer binder reinforced with polypropylene fibers in the stabilization of soft clays, Transportation Infrastructure Geotechnology.
- Bhavita Chowdary, V., et. al., (2021). Experimental evaluation of strength and durability characteristics of geopolymer stabilised soft soil for deep mixing applications. Innovative Infrastructure Solutions, 6(1), 1-10.



- Chowdary, B., et. al., (2020). Fiber reinforced geopolymer treated soft clay—An innovative and sustainable alternative for soil stabilization. *Materials Today: Proceedings*, 32, 777-781.

Book Chapters:

- Bhavita Chowdary, V. et. al., (2021). Geopolymer Stabilization of Soft Clays—An Emerging Technique. *Lecture Notes in Civil Engineering*, Volume 36.

Conference Papers:

- Bhavita Chowdary et. al., “Fiber reinforced geopolymer treated soft clay – An innovative and sustainable alternative for soil stabilization”, 3rd International Conference on Innovative Technologies for Clean and Sustainable Development (ITCSD2020), 19–21 February 2020, NITTTR Chandigarh.
- Bhavita Chowdary et al., “Geopolymer stabilization of soft clays – an emerging technique”, Indian Geotechnical Conference on Geotechnics for Infrastructure and Development and Urbanisation (IGC 2019, GeoINDUS), 19–21 December 2019, NIT Surat, Gujarat.
- V. Bhavita Chowdary et al., “Effect of recuring on strength recovery of thermally deteriorated blended concretes subjected to elevated temperatures cooled in air”, National Conference on Recent Developments in Earthquake Engineering & Concrete Technology (NCRDEQCT-2014), 24th & 25th January 2014, Sir C R Reddy College of Engineering, Eluru.
- V. Bhavita Chowdary et al., “A study on use of modified bentonite in geosynthetic clay liners”, National Seminar on Utilization of Flyash in Geotechnical Structures, 8th & 9th November 2013, Indian Geotechnical Society, Bhubaneswar Chapter, Odisha.
- V. Bhavita Chowdary et al., “A Study on desiccation and hydraulic conductivity of modified bentonite amended with fly ash and silica fume”, National Conference on Recent Advances in Geo-Sciences, Engineering & Technology (NCRAGE), 20th & 21st Dec 2012, JNTU Kakinada.

Workshops, FDPs and Training Programs:

Attended:

- One Week Online Faculty Development Programme on “Taking Research to Next Level” organized by Department of Mechanical Engineering & Department of Basic Science, in Association with IQAC, ISNT and IIC Cell, Sri Venkateshwara College of Engineering, Bengaluru from 26th to 30th September 2022.
- Online International Webinar on “Geopolymer Concrete”, organized by Indian Concrete in association with Department of Civil Engineering, SRM Institute of Science and Technology, Chennai on 9th April 2021.
- A five-day Faculty Development Program on ‘Emerging Technologies in Civil Engineering and Applications’ from 22nd to 26th June 2020 organized by Department of Civil Engineering, Vaageswari College of Engineering, Karimnagar, Telangana.
- A one-week Faculty Development Program on ‘Research in Environmental Engineering and A way Forward’ from 15th to 20th June 2020 organized by Department of Civil Engineering, Pimpri Chinchwad College of Engineering.
- Online Short-Term Program on “Innovation and Upgradation in Infrastructural Technology” organized by Department of Civil Engineering, TEC in association with ASTR, Krishna Conchem Products and Student Chapter ICACI & IEI from 27th May to 02nd June 2020.
- GIAN course on “Geotechnical Earthquake Hazards and Mitigation Measures” by Prof. Hemanta Hazarika from 29th August to 8th September 2018, NIT Warangal
- GIAN course on “Computational Geotechnics” by Prof. Fethi Azizi from 25th June to 6th July 2018, NIT Warangal.

- A five-day Faculty Development Program on ‘Effective Teaching and Learning of Geotechnical Engineering using Field Practices and Case Studies’ from 6th to 10th December 2017 organised by Department of Civil Engineering in association with Teaching Learning Centre (TLC), NIT Warangal.
- GIAN course on “Ground Improvement Techniques (Classification, Case Studies and Trends)” by Prof. Hemanta Hazarika from 30th August to 9th September 2016, NIT Warangal.
- One Day National Workshop on ‘Environmental GeoInformatics’ on 24th January 2015, organized by Department of Civil Engineering, K L University, Vijayawada.
- One Day Workshop on ‘Application of White Cement’ on 23rd February 2015, organized by Department of Civil Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada.
- One Day Workshop on ‘Ansys Applications to Soil Structure Interaction’ on 20th December 2014, organized by Department of Civil Engineering, K L University, Vijayawada.
- Workshop on ‘Geo-Risks and Remedies (GRR-2014)’ on 31st January 2014, Organized by Department of Civil Engineering, NIT Warangal.
- One week Faculty Induction Program (FIP) conducted by experts invited from both Industry and Academia by Vignan's University.

Organized:

- A one-day national workshop on “Problems in Earthquake Prone Areas and Remedies (PREPARE)” at Vignan's University, Vadlamudi, Guntur.
- An International Conference on “Technologies for Sustainable Waste Management in Developing Countries” held on 23rd and 24th August 2013 at Vignan's University, Vadlamudi, Guntur.
- A one-day workshop on ‘Differential Global Positioning System (DGPS)’ held on July 23rd, 2014, at Vignan's University, Vadlamudi, Guntur.

Professional Membership/Certification:

- Student Membership in American Society of Civil Engineers (ASCE).