

PROFILE –

About Me

Dr. C. Lavanya, Professor & HOD, is graduated from Jawaharlal Nehru Technological University (JNTU), Hyderabad in Civil Engineering (2002). She has done her Masters from Jawaharlal Nehru Technological University (JNTU), Kakinada in Soil Mechanics (2005) and her Ph.D from Jawaharlal Nehru Technological University (JNTUH), Hyderabad in Civil Engineering (2015). She has two years of industry working experience and twelve years in teaching and research. She has published 19 research publications in international and national journals and conferences. She is a life member for Indian Geotechnical Society (IGS), LM-2924. She has guided mini and main projects for B.Tech students. She is expert in handling subjects related to the field of Soil Mechanics, Foundation Engineering and Ground Improvement Techniques. Her knowledge in soil mechanics helps students in understanding the basic concepts & depth of subject with ease. She also handles soil mechanics laboratory which helps the students to enhance the understanding of basic principles, finding solutions to mathematical problems etc.



Contact:

Dr. C. Lavanya

Professor & HOD

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Curriculum Vitae

Education Details:

- ♦ PhD in Civil Engineering from JNTUH, Hyderabad. (June 2015)
- ♦ Master of Technology (M. Tech) in Soil Mechanics from Jawaharlal Nehru Technological University Kakinada (JNTUK), Hyderabad (Jan 2005)
- ♦ Bachelor of Technology (B.Tech) in Civil Engineering from JNTUH, Hyderabad (Dec 2001).
- ♦ Diploma in Civil Engineering (DCE) from State Board of Technical Education and Training, A.P. (Mar 1996)
- ♦ SSC from Board of Secondary Education, A.P. (Mar 1993).

Experience & Other Academic Contributions:

- ♦ Teaching Experience – 12 yrs
- ♦ Research Experience- 8 yrs
- ♦ Industry Experience- 2 yrs
- ♦ Presently working as Professor in the Department of Civil Engineering, GRIET, Hyderabad from Feb 2019 to till date.
- ♦ Worked as Associate Professor in the Department of Civil Engineering, GRIET, Hyderabad from Feb 2016 to Feb 2019.
- ♦ Worked as Assistant professor from June 2010 to Feb 2016 in GRIET Hyderabad.
- ♦ Worked as Assistant professor from June 2009 to May 2010 in Sree Dattha College of Engineering, Ibrahimpatnam, Hyderabad.
- ♦ Worked as Software Engineer from Feb 2006 to July 2007 in Accenture, Bangalore.
- ♦ Worked as AutoCAD operator from March 2005 to July 2005 in Mohan Consultants, Hyderabad.

Major Career Interests: To be involved extensively in Teaching, Consultancy and Research activities relevant to Industry and Society.

Association with Professional Bodies

- ♦ Life Member of Indian Geotechnical Society (IGS), LM-2924.

Research Interests:

Expansive soils and Ground Improvement Techniques.

Subjects Taught:

- Geotechnical Engineering - I
- Geotechnical Engineering - II
- Ground Improvement Techniques
- Engineering Geology
- Environmental Engineering
- Geotechnical Engineering Lab
- Engineering Geology Lab

Journal Publications/Conference Proceedings:

International Journals	4
National Journals	1
International Conferences	5
National Conferences	9
Total =	19

ACHEIVEMENTS AND AWARDS**INVITED LECTURES:**

1. Delivered Lecture on Attainment of Course Outcomes and Program Outcomes on 09th Sept 2021 at Sreyas Institute of Engineering and Technology in Online Mode.
2. Delivered Lecture on Overview of Ground Improvement Techniques in Civil Engineering on 05th Aug 2021 at Geethanjali College of Engineering and Technology in Online Mode.
3. Delivered Lecture on Course Outcomes and Program Outcomes on 21st July 2021 under AICTE Margdarshan online FDP at GRIET (19-24 July 2021).
4. Delivered Lecture on An Overview of NBA on 16th July 2021 under Faculty Induction Program - 2021 at GRIET (12-16 July 2021).
5. Delivered Lecture on Assessment and Attainment of Program Outcomes on 27th Dec 2020 under AICTE Margdarshan online FDP at GRIET.
6. Delivered Lecture on Mapping of CO-PO & Attainment of CO-PO on 03rd Jan 2020 at Kshatriya College of Engineering, Armoor, Nizamabad.
7. Delivered Lecture on Curricular Aspects – Planning & Implementation, Academic Flexibility and Curricular Enrichment on 03rd Jan 2020 at Kshatriya College of Engineering, Armoor, Nizamabad.
8. Delivered Lecture on Mapping & Attainment of COs and POs on 12th Dec 2019 at Methodist College of Engineering & Technology, Abids, Hyderabad.
9. Delivered Lecture on Workshop - Hands on CO - PO Attainment & Course File on 3rd Dec 2019 under AICTE Margdarshan FDP at GRIET.
10. Delivered Lecture on Mapping & Attainment of COs and POs on 3rd Dec 2019 under AICTE Margdarshan FDP at GRIET.
11. Delivered lecture at Human Resource Development Centre, JNTUH, Hyderabad, in a one week Short Term Course on “Ground Improvement Methods and Assessment of their Quality Control” from 16-09-2019 to 21-09-2019. Lecture session on the topic “A study on reduction of swell potential of expansive soil using copper slag cushion” from 3.45 to 5.15 pm on 20th Sep 2019.
12. Delivered Lecture on Importance of OBE system and its implementation on 13th Sep 2017 for FIP at GRIET.

13. Delivered Lecture on POs and PEOs attainment on 4th Mar 2017 for FDP at GRIET.
14. Judge for PROMETHEAN (Technical Fest) organized by Department of Civil Engineering at B.V. Raju Institute of Technology (BVRIT - Autonomous) Narsapur from 23rd – 24th Dec 2016.
15. Judge for PROMETHEAN (Technical Fest) organized by Department of Civil Engineering at B.V. Raju Institute of Technology (BVRIT - Autonomous) Narsapur on 15th Oct 2015.
16. Panel member for geotechnical engineering stream for the “*Techno fest 12, STHAPATYA 2012*“, A national level technical symposium in the department of civil engineering at JNTUCEH on 16th Mar 2012.

AWARDS:

1. Awarded “Best Faculty Award (Female)” by International Academic and Research Excellence (IARE) Award 2019.

Publications

LIST OF PAPER PUBLICATIONS

JOURNALS:

❖ INTERNATIONAL:

1. Lavanya C., Kumar N.D. (2021) Study on CBR of Lime and Cement Stabilized Copper Slag Cushion Laid Over Expansive Soil. In: Patel S., Solanki C.H., Reddy K.R., Shukla S.K. (eds) Proceedings of the Indian Geotechnical Conference 2019. Lecture Notes in Civil Engineering, vol 137. Springer, Singapore. https://doi.org/10.1007/978-981-33-6466-0_12 (<https://link.springer.com/book/10.1007/978-981-33-6466-0>), pp129-139. (May 2021)
2. Kumar N.D., Lavanya C. (2021) A Geotechnical Study on Breached Summer Storage Tank. In: Patel S., Solanki C.H., Reddy K.R., Shukla S.K. (eds) Proceedings of the Indian Geotechnical Conference 2019. Lecture Notes in Civil Engineering, vol 134. Springer, Singapore. https://doi.org/10.1007/978-981-33-6370-0_42 (<https://link.springer.com/book/10.1007/978-981-33-6370-0>), pp 471-482. (May 2021)
3. Lavanya, C., Sreerama Rao, A. and Darga Kumar, N. (2013), “Study on Coefficient of Permeability of Copper slag when admixed with Lime and Cement”, International Organization of Scientific Research Journal of Mechanical and Civil Engineering, Vol. 7, Issue 6, pp. 19-25, DOI:10.9790/1684-0761925.
4. Lavanya, C., Sreerama Rao, A. and Darga Kumar, N. (2012), “Influence of Admixture on Shear parameters of Copper Slag”, International Journal of Engineering Research and Technology, ESRSA Publications, Vol. 1, Issue 10, pp. 475 - 480.

❖ NATIONAL:

1. Lavanya, C. and Srirama Rao, A. (2017), “Study of Swelling Potential of Copper Slag Cushion Laid Over Expansive Soil Bed”, Springer - Indian Geotechnical Journal, 4 March, 2017 (online), Sept 2017 (E-Print) , ISSN 0971-9555, DOI 10.1007/s40098-017-0227-9, pp 280-285.

CONFERENCE PROCEEDINGS:

❖ INTERNATIONAL:

1. C Lavanya and Nandyala Darga Kumar (2021), "SLRA and MLRA Based Correlations of Geotechnical Parameters of Fine Grained Soils", 3rd International Conference on trends in Material Science and Inventive Materials (ICTMIM 2021), Coimbatore, India held from 12th – 13th March 2021, IOP Conference Series: Materials Science and Engineering, <https://iopscience.iop.org/article/10.1088/1757-899X/1126/1/012084>.
2. C Lavanya and Nandyala Darga Kumar (2020), "Foundation Types for Land and Offshore Sustainable Wind Energy Turbine Towers", 2nd International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED 2020) held at GRIET from 10th – 12th July 2020, E3S Web of Conferences 184, 01094 (2020) <https://doi.org/10.1051/e3sconf/202018401094>.
3. Darga Kumar, N and Lavanya, C. (2020), "Effect of strip load location and width on horizontal stress of non-yielding wall", International Conference on Civil Engineering Aspects for Sustainability (IconCES 2020) held at GRIET from 28th – 29th Feb 2020, ISBN No.: 978-93-89947-04-5, pp.43.
4. Lavanya, C., Srirama Rao, A. and Darga Kumar, N. (2014), "Efficacy of copper slag cushion in arresting heave of an expansive soil", International Conference on Recent trends in Engineering & Technoogy, ELSEVIER Publications, ISBN No.: 978-93-5107-222-5, pp.658-662.
5. Lavanya, C. and Sreerama Rao, A. (2010), "Use of Fly ash in Black Cotton Soils Sub grades", International Conference on Developments in Road Transportation (DRT 2010), NIT, Rourkela, pp. 601 - 607.

❖ NATIONAL:

1. Lavanya, C and Darga Kumar, N. (2017), "Study on observed values of soaked CBR of lime stabilized copper slag cushion laid over expansive soil bed", National Conference on Recent innovations in Civil Engineering (RICE 2017) held at GRIET from 15th – 16th Dec 2017, ISBN No.: 978-93-5279-269-6, pp.297-302.
2. Darga Kumar, N and Lavanya, C. (2017), "Failure of pavements - causes, steps to improve and stabilization of roads on poor sub grade soils", National Conference on Recent innovations in Civil Engineering (RICE 2017) held at GRIET from 15th – 16th Dec 2017, ISBN No.: 978-93-5279-269-6, pp.286-296.
3. Lavanya, C. and Srirama Rao, A. (2016), "Shear Strength of Cement/Lime - Stabilized Copper Slag", Indian Geotechnical Conference (IGC 2016), IIT Madras, Chennai, pp 92.
4. Lavanya, C., Srirama Rao, A. and Darga Kumar, N. (2015), "Study on load-settlement behaviour of copper slag-cushioned expansive soil bed", Indian Geotechnical Conference (IGC 2015), COEP, Pune, pp 9.
5. Lavanya, C., Srirama Rao, A. and Darga Kumar, N. (2014), "Comparison studies on influence of admixture on copper slag cushion laid over an expansive soil", Indian Geotechnical Conference (IGC 2014), Kakinada, pp.704-711.
6. Lavanya, C., Sreerama Rao, A. and Darga Kumar, N. (2013), "Influence of admixtures on Load - Settlement behaviour of Copper Slag - Cushioned Expansive Soil Bed", Indian Geotechnical Conference (IGC 2013), Roorkee, pp.1-5.
7. Lavanya, C., Sreerama Rao, A. and Darga Kumar, N. (2012), "Influence of Admixture on Compaction Characteristics and CBR of Copper Slag, Indian Geotechnical Conference (IGC 2012), New Delhi, pp. 359 - 362.

8. Lavanya, C., Sreerama Rao, A. and Darga Kumar, N. (2011), "A Review on Utilization of Copper slag for various Geotechnical Applications", Indian Geotechnical Conference (IGC 2011), Kochi, pp. 445 - 448.
9. Dr.A.Sreerama Rao, R.Dayakar Babu, C.Lavanya, G.Hima Bindu. (2006), "Swell-shrink behaviour of stabilized fly ash cushions in expansive soils", Indian Geotechnical Conference (IGC 2006), 13-15 December 2006, IIT Madras, pp 301 - 304.

Books /Chapters

1. Lavanya C, Jandhyala N Murthy, Satyanarayana Kosaraju, Chapter 4 (Feb 2020), Assessment Practices in Outcome-Based Education: Evaluation Drives Education in Methodologies and Outcomes of Engineering and Technological Pedagogy by IGI Global, pp 50-61, DOI: 10.4018/978-1-7998-2245-5.ch004.
2. Jandhyala N Murthy, Lavanya C, Satyanarayana Kosaraju, Chapter 14 (Feb 2020), Ethics in Engineering Profession: Pedagogy and Practices in Methodologies and Outcomes of Engineering and Technological Pedagogy by IGI Global, pp 296-318, DOI: 10.4018/978-1-7998-2245-5.ch014.

PROFESSIONAL PROGRAMS ATTENDED:

1. FDO on "Foundation Engineering Practice (Case Studies)" (online) from 06 Apr – 28 May 2021.
2. Four weeks FDP on "Coursera - Inspiring and Motivating Individuals", (online) from 01 July - 03 Aug 2020.
3. One week FDP on AICTE-NITTT Mentor Online Training Programme (OTP), AICTE (online) from 03 – 10 June 2020.
4. Two day Workshop on "Online Tools & Software for Remote Teaching-Learning", JNTUH (online) from 24 – 25 April 2020.
5. Two week FDP on "Digital Transformation in Teaching Learning Process (DTITLP)", NPIU (Online) from 17th Jan 2020 to 07th Feb 2020.
6. Indian Geotechnical Conference on "GEOtechnics for INfrastructure Development & UrbaniSation GeoINDUS (IGC 2019)" at SVNIT Surat, Gujarat from 19th - 21th Dec 2019.
7. Three day Workshop on "NAAC New Framework for Accreditation and Assessment of HEIs: Opportunities & Challenges" organized by G. Narayanamma Institute of Technology and Science (for Women), Hyderabad in association with NAAC Bangalore from 19th – 21st Sept 2019.
8. Two day National workshop "Preparing for NBA Accreditation & SAR filling", conducted by JNTUH, Hyderabad from 18th – 19th Feb 2019.
9. One day national conference "ICT Academy Bridge 2018" - The Largest Industry Institute Interaction Event of ASIA conducted ICT Academy at Hyderabad on 24th Oct 2018.
10. National Conference on "Evolution of World Class Technical Institutions – Issues & Concerns (EWCTI2018)" conducted by NIT Warangal at Warangal from 10th Oct to 12th Oct 2018.
11. Two day training on "Bhuvan Overview" conducted by NRSC, Hyderabad from 27th to 28th Mar 2018.
12. Two day workshop on "Modern developments in concrete and building technology" at GRIET from 2nd – 3rd Feb 2018.
13. Two day National workshop on "Sustainable technologies in Civil Engineering, Perspectives and Strategies" (STEPS-2016) at GRIET from 21st – 22nd Dec 2017.

14. Two day National conference on “Recent Innovations in Civil Engineering” (RICE 2017) at GRIET from 15th – 16th Dec 2017.
15. Two-Week AICTE approved FDP Under the aegis of Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching (PMMMNMNTT) on "Pedagogy for Online and Blended Teaching-Learning Process (FDP201x)" from 14 September to 12 October 2017 conducted by Indian Institute of Technology, Bombay.
16. Two-Week AICTE approved FDP Under the aegis of Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching (PMMMNMNTT) on " Foundation Program in ICT for Education (FDP101x)" from 03 August to 07 September 2017 conducted by Indian Institute of Technology, Bombay.
17. National workshop on “Popularization of Geo-Spatial Technologies for the benefit of Academia”, at GRIET in collaboration with Indian Society of Remote Sensing (ISRS) Hyderabad Chapter on 22nd April 2017.
18. Course on “Space Technology Applications in Governance and Development” at NRSC, Hyderabad from 6th – 10th Mar 2017.
19. Faculty Development Program on “Matlab Applications” from 27th Feb – 3rd Mar 2017.
20. National workshop on Sustainable technologies in Civil Engineering, Perspectives and Strategies (STEPS-2016) at GRIET on 21st Dec 2016
21. Indian Geotechnical Conference (IGC 2016) on “Geotechnology towards Global Standards“ at IIT Madras, Chennai from 15th - 17th Dec 2016.
22. IITBombayX online course on Educational Technology for Engineering Teachers (E601Tx) from 7th Jan 2016 to 2nd march 2016 for a duration of 8 weeks.
23. Faculty development Programme on Sustainable technologies in Civil Engineering, Perspectives and Strategies (STEPS-2015) at GRIET from 28th- 30th Dec 2015.
24. Indian Geotechnical Conference (IGC 2015) on “Geotechnics for Infrastructure & Foundation Techniques (GIFT)“at College of Engineering Pune (COEP), Pune, Maharashtra from 17th-19th Dec 2015.
25. Management development program on “Management capacity enhancement programme for administrators“at Indian Institute of Management Lucknow (IIML), Noida Campus, from 24th - 28th Aug 2015.
26. Workshop on “Quality initiatives in technical & higher educational institutions in compliance with NBA & NAAC Accreditation“ at Engineering Staff College of India, Hyderabad from 10th - 12th Mar 2015.
27. National workshop on Sustainable technologies in Civil Engineering, Perspectives and Strategies (STEPS-2014) at GRIET from 16th- 17th Dec 2014.
28. Indian Geotechnical Conference on “Geotechnics for inclusive development of India 2014 (GEOIND) “at JNTUK, Kakinada, A.P. from 18th-20th Dec 2014.
29. National seminar on “Problems associated with geotechnics of expansive soils (PAGES) “, at RVR&JC, Guntur, A.P. on 25 Jan 2014
30. National workshop on Sustainable technologies in Civil Engineering, Perspectives and Strategies (STEPS-2013) at GRIET from 27th- 28th Dec 2013.
31. National workshop on Intelligent surveying using total station at GRIET from 25th- 26th Mar 2013.
32. National workshop on Design and analysis on STAAD.PRO at GRIET from 23rd - 24th Jan 2013.
33. Workshop on “New outcome based Accreditation conducted by NBA“, New Delhi at Osmania University, Hyderabad on 13 July 2012.

34. National workshop on Recent trends in concrete and construction at GRIET from 27th-28th Feb 2013.
35. National seminar on Sustainable technologies in Civil Engineering, Perspectives and Strategies (STEPS-2012) at GRIET on 19th Dec 2012.
36. Indo-US workshop on “Strides in Infra development on Expansive & Soft soils (IDEAS - 2012) “, at IIT Hyderabad on 27 June 2012.
37. Workshop on Enforcement of Intellectual property rights in Indian Scenario at GRIET on 25th Feb 2012.
38. Indian Geotechnical Conference on “Geochallenges (IGC 2011)“ at Cohin University, Kochi from 15th-17th Dec 2011.
39. Symposium on “Geopractices 2011“at JNTUH, Hyderabad, on 05 Nov 2011.
40. Workshop on “Problems & Adversities in GE practice & Solutions (PAGES) “, at Vignan University, Guntur, A.P., on 30 July 2011.
41. Workshop on Advances in water resources management at GRIET on 23 Apr 2011.
42. Indian Geotechnical Conference on “Geotechnics in infrastructure development (IGC 2009)“ at RVR&JC, Guntur, A.P. from 18th-20th Feb 2010.