

Name : D. Harinder

Designation : Assistant Professor

Department : Civil Engineering.

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Experience : Teaching: 4 years Research: 5.5 years Industry: Nill



1.0 Educational Qualification:

S. No	Level/UG/PG/ Ph. D	Year of passing	Specialization
1	Ph.D.	2019	Transportation Geo-techniques
2	M.E	2013	Transportation Engineering
3	B.E.	2011	Civil Engineering

2. Teaching and Learning:

2.1 Teaching Interests:

- a). **UG courses:** Highway Engineering, Geotechnical Engineering, Transportation Engineering, Construction Management, Estimation and Costing, Environment science Disaster Management, Engineering Geology Laboratory, and Highway Engineering Laboratory.
- b) **PG courses:** Highway Geometric Design, Pavement Management System and Highway Construction and Quality Control, and Pavement Engineering Laboratory.

2.2 Novel Teaching & Learning Techniques adopted:

- a). Learning from NPTEL video materials.
- b). Learning from on-line courses from NPTEL.
- c). Discussing with senior faculty and specialized scientists in gathering updated knowledge on the topics I am teaching.
- d). Using Black Board, Projector for showing any relevant topic video, PPTs, etc for teaching.
- e). Class room discussions to help the students to deepen the understanding of the topics.
- f). Tutorial classes to make the students to practice more model kind of problems to become ready to solve any civil engineering problems.
- g). personal meetings with students to get feedback on the topic covered.

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

Hearing to music and playing cricket and volleyball.

3.2. Counseling and Mentoring Activity:

Mentoring 20 students at present. 10 students from B.Tech II and 10 from B.Tech IV year.

4.0 Paper publication:

4.1 Journals

- 1) **D. Harinder**, K. Ravindra Babu, E. Madhu. “Review on utilization of Concrete Demolished Waste and Crum Rubber in Rigid Pavement Construction”. Sustainable Infrastructure: Innovation, Oppoutunities and Challenges – 2023. (**Under Review**)
- 2) Aditya Mantripragada, Ramesh Adepu, Venkat Ramayya Varanasi, **Harinder Devavath**. “Assessment and Prioritization of highway stretch deploying functional and structural characteristics. Jordan Journal of Civil Engineering”. (**Scopus Accepted-2022**)
- 3) **D. Harinder**, B Chandu, M Aditya. “Evaluation of Different Types of Soil Subgrade Using Glass Powder for Low-Volume Roads (LVRs)”. Materials today proceeding. 2022. (**Scopus - 2022**).
- 4) **D. Harinder**, P. Yugender, and Dr. S. Shankar. Experimental assessment of coir geotextile to improve the strength of weak subgrade at different load conditions. Materials today proceeding. 2021. (**Scopus-2021**)
- 5) **Harinder, D.**, and Shankar, S. (2018) “Experimental study on coir mats to enhance the weak subgrade soil for Low-Volume Roads”, **International Journal of Traffic and Transportation Engineering**, 8(1), 125 – 134.
- 6) **Harinder, D.**, and Shankar, S. (2018) “ Experimental Study to Reinforce The Weak Subgrade Soil for Low-Volume Roads by Coir Geotextile Mats”, **International Journal of Geoscience, Engineering Environmental and Technology**, Vol 03, No 01.
- 7) **Harinder D.**, S. Ashok, and Kumar, M. (2018) “Estimation Of Factors Affecting Base Saturation Flow Rate At Signalized Intersection”, International Journal Of Technical Research & Science. Paper Id: Ijtrs-V3-I3-008 Volume 3 Issue III, April 2018.
- 8) **Harinder D.**, and Ashok, S. (2018) “Factors Affecting Base Saturation Flow Rate at Multi-Lane Intersections approaches - A Case Study of Hyderabad city”, International Research Journal of Engineering and Technology (IRJET), Volume: 05 Issue: 04.
- 9) **Harinder, D.**, S Shankar, M Rajasekar, M. (2018) “Experimental Evaluation Of Coir Geotextile Fiber Along With Cement To Reinforce The Weak Subgrade Soil For Low

Volume Roads”, **International Journal Of Technical Research & Science**. Paper Id: Ijtrs-V3-I1-009 Volume 3 Issue I.

- 10) S Ashok, and **Harinder, D.** (2018) “Seasonal Variation of AoD and Concentrated Weighted Trajectory Analysis over East India (Kharagpur)”, **International Journal of Technical Research & Science** Paper Id: Ijtrs-V3-I3-014 Volume 3 Issue III.
- 11) S Ashok, and **Harinder, D.** (2018) “influence of sea breeze and land breeze over kharagpure resion and variation in monthly vertical velocity profile”, **International research journal of engineering and Technical** Volume 5 Issue 4, April.
- 12) **Harinder, D.**, and Shankar, S. (2017) “Reinforcement of Weak Subgrade using Coir Geotextile Mats for Low Volume Roads”, **International Journal of Emerging Technology and Advanced Engineering** (E-ISSN 2250–2459, UGC Approved List of Recommended Journal, Volume 7, Special Issue 2.
- 13) Sunaram Murumu, S. Shankar, **D. Harinder**, Prasad, CSRK. (2016) “Influence of fly ash and coir fiber for the construction of soil subgrades”, **Indian Roads Congress 77th annual session**. Hyderabad Telangana. 15-18 December. (**Scopus**)

4.2 Conference / Workshop / Seminar / symposium :

1. D Harinder, P. Anusha, A. Ramesh, and K. Mehaboob Peera kamatalam. Evaluation of flexible pavement performance based on HDM-4 and international roughness index. E3S Web of Conferences 391, 01202 (2023). ICMED-ICMPC 2023. **Scopus – 2023**
2. D. Harinder, E. Madhu, K. Ravindra Babu, S.Rakesh. Review on utilization and benefits of construction demolished waste and crum rubber in rigid pavement. International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges (SIIOC 2023) – **Scopus – Presented**
3. K. Ravindra Babu, **D. Harinder**, G.Sambasavi Rao. Performance and Evaluation of Urban Transport System by Service Level Bench Marking - A Case Study at Guntur. International conference on Innovation in engineering and Technology, ICIET-2022. (**Accepted - Presented Scopus**).
4. B. Chandu and **D. Harinder**. Evaluation of Partially Replacement of Waste Tyre Rubber Using Conventional and Recycled Aggregate for Rigid. International conference on Innovation in engineering and Technology, ICIET-2022. (**Accepted – and Presented Scopus**).
5. **D. Harinder**, S. Shankar and B. Chandu. Laboratory Assessment of Coir Geotextile Mats Under Wheel Load Conditions for Low- Volume Roads (LVRs). Accepeted by IOP conference series in “Earth and Environment Science”. (**Scopus-2022**)

6. J. Anup Kumar and **D. Harinder**. "Evaluation of flexible pavement overlay using highway development and management (HDM-4)". International conference on materials and manufacturing system – (ICMEMS-2022) - (**Scopus-2022**)
7. D. Vamshi, and **D. Harinder**. "Assessment of performance and maintenance of flexible pavement using the highway development and management (HDM-4)". International conference on the "innovative and sustainable technology in civil engineering"- ISTCE-2021.- (**Scopus**)
8. Narayana naik k, **Dr. D. Harinder**. "Development of Roughness Index Model of Low Volume Roads using Machine Learning Techniques". *2nd International Conference on IoT ,Social, Mobile, Analytics and Cloud in computational vision and Bio- Engineering (ISMAC 2020)*. (**Elsevier**)
9. D. Deepak, Kumar and **D. Harinder**. ANN and SVM Based modelling of stabilized soils". 4th International Conference on IoT in Social, Mobile, Analytics and Cloud (ISMAC 2020) / IEEE Xplore. (**IEEE – Conference**)
10. **Harinder, D.** (2020). "International conference on construction materials and smart structure for sustainable development, organized by department of civil engineering at VNRVJIET, during 29th – 31st.
11. **Harinder, D.**, Shankar, S. "the role of coir geotextile to stabilize the weak subgrade soil for Low-Volume roads". *Young Researchers symposium on geotechnical engineering*, during 1st -2nd October 2019, NIT, Warangal.
12. **Harinder, D.**, and Shankar, S. Evaluation of Coir Geotextile Mats to Enhance the Poor Subgrade under Repeated Load for Low-Volume Roads. *International Conference on Emerging Trends in Engineering (ICETE)*, during 22-23 march 2019, Osmania university, Hyderabad. (**Scopus**)
13. **Harinder, D.**, and Shankar, S. 2018 "The Experimental Study of Coir Composite Mats and Woven Coir Mats Reinforcement for Unpaved roads", 1st International Conference on NEW Frontiers in Engineering, Science and Technology, NFEST-2018, New Delhi.
14. **Harinder, D.**, Raja Ram .G and Shankar, S. 2018 "Influence of Coir Geotextiles on Construction of Expansive Soil Subgrade", 5th Colloquium on Transportation Systems Engineering and Management (CTSEM2018) NIT Warangal, May 17–19.
15. Harinder, D., attended Indian geotechnical conference IGC-2018, Organized by Geotechnical Division, Department of Civil Engineering, National Institute of Technology, Warangal 2018.
16. **Harinder, D.**, K. Pandu, and Kumar, M. (2017) "Estimation of Saturation Flow Rate at Multi-Lane Intersection- A Case Study of Hyderabad", International journal of advance research in engineering science. Volume No. 6, issue No. 11, November.

17. **Harinder, D.**, and Shankar, S. 2017 “The Role of Coir Geotextile to Stabilize the Weak Subgrade Soil for Low-Volume Roads”. 11th International Conference on Recent Trends in Engineering, Hyderabad held on 22nd October.
18. **Harinder, D.**, and Shankar, S. 2017. Experimental Evaluation of Coir Geotextile over Weak Subgrade Soil under Repeated Loading for unpaved LVR. Two-Day National Conference on Roads and Transport-2017 at IITR.
19. **Harinder, D.**, and Shankar, S. 2017. Studies on Coir Geotextile over Weak Subgrade for Betterment of Service Life of Low Volume Roads. 11th International Conference on Recent Trends in Science and Management, IETE, Osmania University, Hyderabad.
20. **Harinder, D.**, and Shankar, S. 2017. Reinforcement of Weak Subgrade Using Coir Geotextile Mats for Low Volume Roads. 2nd International Conference on Recent Innovation in Structural Engineering, IC-ISE-2017 on Dec 29-31, Hyderabad. (**Scopus**)
21. Matte Rajasekar, **D. Harinder**, Shankar, S. 2015 “Laboratory Tests on Performance Evaluation of Coir Reinforcement with Cement Stabilization for Poor Sub-Grade Soil”. Transportation Young Research Symposium (TYReS).
22. Sunaram Murumu., **D. Harinder**, Shankar, S. 2015 “Influence of Fly Ash and Coir Fiber on Expansive Subgrade Soil”, Transportation Young Research Symposium (TYReS).
23. M Sagar, **D. Harinder**, Shankar, S. 2015 “Influence of terrazyme with coir geotextile to stabilize the weak subgrade soil” Transportation Young Research Symposium (TYReS).

5.0 ACADEMIC ACHIEVEMENTS:

5.1 Faculty Development Program (FDP):

- 1 Participated in one week online faculty development programme on “ recent trends in civil engineering ” organized by department of civil engineering, j b institute of engineering & technology from 20th – 25th feb 2023.
- 2 Participated in Six Day Faculty Development Program on" Soft Computing Techniques For Civil Engineers" organized by the Department of Civil Engineering, Madanapalle Institute of Technology & Science, Madanapalle from 05th to 12th December 2022.
- 3 Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Construction Technology" from 2020- 11-23 to 2020-11-27 at Maulana Azad National Urdu University Polytechnic Hyderabad.
- 4 Participated in 10-days Online Faculty Development Programme on “Advance in Geosynthetics Engineering”. Sponsored by ministry of electronics and information technology, organized by department of civil engineering, NIT Warangal during 28th Feb 2022 to 9th march, 2022.

- 5 One week Online Faculty Development Programs on “Innovative contactless investigation techniques in civil engineering” organized by VNR VJIET in associate with AICTE Training and learning academy from 06-09-2021 to 10-09-2021.
- 6 Participated in 10-days Online Faculty Development Programme on “Content Preparation and delivery for online mode of teaching”. Organized by the teaching learning Centre, National Institute of Tecnology Warangal, During 05th – 10th October 2020.
- 7 One-Week Online Faculty Development Programs on “Soft Computing Techniques for Emerging Applications (SCTEA)” organized by Department of Computer Science and Engineering (CSE), The Centre for Continuing Education (CCE), and Teaching Learning Centre (TLC), NIT Warangal during 5th to 9th October, 2020.
- 8 Two Week Online AICTE Sponsored Faculty Development Program on "Advanced Computing in Civil Engineering (ACCE)", Series-1: Advanced Computational tools in Structural Modelling and Analysis & Transportation and Traffic systems (16-28, Nov 2020)
- 9 Participated in One Week Online Faculty Development Programme on “Emerging Trends In Infrastructure Projects (Etip-2020)” during July 20th to 24th, 2020, Organized by the Department of Civil Engineering, Kakatiya Institute of Technology and Science, Warangal, Telangana.
- 10 Two week faculty development program on “AI, Machine learning and Deep learning Applications to smart grid” DST sponsored FDP during 25th November to -6th December, 2019 at VNR VJIET, Hyderabad.
- 11 One week faculty development program on “learning by doing on python” organized by competency development centre, VNR VJIET, Hyderabad, during 18th Nov to 23Rd Nov 2019.
- 12 One weak faculty development program on “finite element analysis using the MIDAS software” Organized by Department Of Civil Engineering in Associated with VSSUT, Burla Odisha, university college of engineering (A), Osmania university, Hyderabad, during 12th-16th march 2019.
- 13 A Five Day Faculty Development Workshop on “Free And Open Source Geospatial Technology for Teachers in Higher Education” Organized by Department Of Civil Engineering in Associated with the Teaching Learning Center, National Institute of Technology, during 14th -18th of March 2018.
- 14 A Five Day Faculty Development Program on Effective Teaching and Learning of Flexible Pavement Design, Organized by National Institute of Technology, Warangal, during 17th -21st of January 2018.

- 15 A Five Day Faculty Development Workshop on “Effective Teaching And Learning of Geotechnical Engineering Using Filed Practices and Case Studies” Organized by Department of Civil Engineering in Associated with the Teaching and Learning Centre, National Institute of Technology, during 6th -10th December 2017.
- 16 Five Day Faculty Development Work Shop on R-Programming Concepts And Application for the Teachers in Higher Education, National Institute of Technology, Warangal, during 13th -17th of September 2017

5.2 Global Innovative Academic Network (GIAN):

- 1) Two Week GIAN Course on “Geotechnical Earthquake Hazards and Mitigation Measures” Organized by geotechnical Division, Department of Civil Engineering, National Institute of Technology, Warangal during The 29th August -8th September 2018.
- 2) Two Week GIAN Course on “Computational Geotechnical” Organized By geotechnical Division, Department of Civil Engineering, National Institute of Technology, during 25th June – 6th July 2018.
- 3) One Week GIAN Course on “Decision Tool for Selection and Evaluation of Transportation Projects” Organized by Transportation Division, Department of Civil Engineering National Institute of Technology, Warangal during 22th -26th January 2018.
- 4) One Week GIAN Course on “Implementation of Advance Transportation Management System”, Organized by Transportation Division, Department of Civil Engineering National Institute of Technology, Warangal during 4th -8th September 2017.
- 5) Two Week GIAN Course on “Ground Improvement Techniques (Classification, Case Studies, and Trends)”, Organized by geotechnical Division, Department of Civil Engineering National Institute of Technology, Warangal during the 30th August -9th September 2016.
- 6) One Week GIAN Course on “Low-Volume Roads and Best Practices”, Organized by Transportation Division, Department Of Civil Engineering, National Institute of Technology, Warangal during 26th -30th September 2016.
- 7) One Week GIAN Course On “Transportation And The Environment” Organized By The Transportation Division, Department Of Civil Engineering, National Institute of Technology, Warangal during 6th -10th August 2015.

5.3 Attended Workshop/ Symposium/ Course Work/Training Program and seminar:

1. Five – day technical workshop on emerging trends in transportation geotechnics, 23rd to 27th September 2019, organized by vagdevi college of engineering, Warangal.
2. Two days workshop on “Business opportunities in Waste management (BOWM-2019)” organized by department of civil engineering, VNR VJIET, Hyderabad on 3rd and 4th October, 2019.
3. Two day national seminar on entrepreneurship and leadership skills organized by liaison office, SC-ST communities, National Institute of Technology, Warangal during 18th and 19th march 2019, on the occasion of diamond jubilee year celebration of the institute.
4. Continuing Education Programme on Geosynthetics in Infrastructure Development. Sponsored by TQIP-III, Organized by Department of Civil Engineering, National Institute of Technology, Warangal during 28th January – 1st February 2019.
5. A Two Day Young Research Symposium for Geotechnical Engineering Organized By The Department of Civil Engineering, National Institute of Technology, Warangal during 1st -2nd October 2018.
6. Three Day Course On GNSS Technology and Its Application (Gnss-2017) Organized by Research And Training Unit for Navigational Electronics & Department of Civil Engineering, University College of Engineering (A), Osmania University, Hyderabad during 20th-22nd October 2017.
7. An Appreciation Certificate for Participated in Field Data Collection/Extraction for the project titled “Comprehensive Traffic Studies for Karimnagar City” During April 2017.
8. Transportations Young Research Symposium (TYReS-2015), National Institute of Technology, Warangal, during 10th-15th May 2015.
9. Transportations Young Research Symposium (TYReS-2015), Transportation for Smart Cities. National Institute Of Technology, Warangal, during May 10th -15th, 2015.
10. Transportations Young Research Symposium (TYReS-2014) MX-Roads. National Institute of Technology, Warangal during March 27th, 2014.
11. Geo-Risks and Remedies (GRR-2014) Organized by the Geotechnical Engineering Division, Department of Civil Engineering, Under TEQIP-II on 31st January 2014.
12. A Three Day Training Program on “Innovative Technologies for Low Volume Roads (ITLVR-2014), during 30th October -1st November 2014.

13. National Workshop on “Transportation Infrastructure Needs and Needs and Challenges in India” Department of Civil Engineering, University Colleges of Engineering (Autonomous), Hyderabad during 11th -12th October 2012.
14. International Workshop on Energy System, Energy Efficiency and Energy Conservation (ESEEEEC-2012), Sagar Institute of Technology, Held At Sagar College on 20th December 2012.
15. Three Day Symposium On Application Of Remote Sensing And GIS In Civil Engineering, National Institute Of Technology, Warangal during 3rd August -5th August 2012.
16. Internship: Undergone Internship at SVEC construction.

6.0 Academic Contribution and Research & Consultancy:

6.1. Books published as single author or as editor: Nil

6.2 Projects Guided :

- a) UG : 3 Completed.
- b) PG : 6 Completed, 2 on-going.

6.3 Research Interests :

- Subgrade stabilization
- Geosynthetics in pavement application
- Pavement material
- Pavement management system
- Pavement design

6.4 Ph.D. students:

- a) Enrolled: Nil
- b) Submitted: Nil
- c) Awarded: Nil

7.0 Motto

Work in worship and Lead a Good Character Teacher and Enthusiastic Learner all the time.
Imparting up-to-date knowledge to students