

Faculty Profile

Brief Profile (Few Paragraphs)



A passionate faculty member in the field of Highway Technology with a strong focus on teaching, research, training, and consultancy. She holds a Ph.D. Highway Engineering from Visveswaraya Technological University and have 18 years of academic and professional experience. Her areas of interest include pavement design, pavement evaluation, pavement management system, road safety and use of sustainable materials in road construction. She has been actively involved in research projects, training programs for inservice engineers and professionals, consultancy services related to highway design and pavement performance. She is committed to promoting innovation and practical learning in the field of highway engineering.

Personal Information

- **Name:** Archana M R
- **Designation:** Assistant Professor
- **Department:** Civil Engineering
- **Email:** archanamr@rvce.edu.in
- **Phone:** 080 - 68188186

Google Scholar [leKFMmcAAAAJ](https://scholar.google.com/citations?user=leKFMmcAAAAJ)

ResearchGate: https://www.researchgate.net/profile/Archana_M_R?ev=hdr_xprf

ORCID: [0000-0002-7173-3944](https://orcid.org/0000-0002-7173-3944)

Domain of Expertise

Research Focus

- **Primary Area:** Pavement Engineering, Road Safety Engineering and Pavement Management Systems

Academic Qualifications

- **Ph.D.:** Civil Engineering, Visveswaraya Technological University, 2021
- **M.Sc./M.Tech:** Highway Engineering, Bangalore University, 2006
- **B.E./B.Tech:** Civil Engineering, Visveswaraya Technological University, 2004

Professional Experience

Experience			
S.No	Institute/College/Industry	Job Title	Duration (From- To)
1.	Stup Consultants Pvt Ltd.	Highway Designer	2006 – 2008
2.	R V College of Engineering	Assistant Professor (Selection Grade)	2024 – till date
3.	R V College of Engineering	Assistant Professor (Senior Grade)	2011 – 2024
4.	R V College of Engineering	Lecturer	2008 – 2011

Publications & Patents

Journal Publications

1. Archana Mosale Ramanath; Anjaneyappa, Venkateshappa, M.ASCE; Amarnath Macheri Srinivasarao; and Veeraragavan Amirthalingam “Benchmarking Falling Weight Deflectometer Deflection Bowl Parameters: Case Study for Indian Conditions and the Applications to Rehabilitation Design” Journal of transportation engineering, Part –B, ASCE, Volume 146/issue -3, September 2020,
2. Arun Kumar D S, Shakeeb Ahmed Sawar, Archana M. R., and Anjaneyappa V, A Study on Reclaimed Asphalt Pavement (RAP) Mixes, i – Manager’s Journal of Civil Engineering, Vol 11, No. 2, March – May 2021
3. Shakeeb Ahmed Sawar, Arun Kumar D S, Archana M. R., Anjaneyappa V and Somanath M Basutkar, Studies on Cement Treated Granular Mixes Using Various Recycled Aggregates – A Review, , i – Manager’s Journal of Civil Engineering, Vol 11, No. 2, March – May 2021
4. [Anjaneyappa, Archana MR and Nizar “Equipment Noise attenuation for Pavement Layers”,_RV Journal of Science Technology Engineering Arts and Management, Volume 3,Issue 1, Jan 2022,
http://rvjsteam.rvce.edu.in/rvjsteam-new.html](http://rvjsteam.rvce.edu.in/rvjsteam-new.html)
5. Dhanya KumarS.J. , Archana M.R. V. Anjaneyappa, Anala M. R., Identification and Quantification of Distress Along Flexible and Concrete Pavements Using Low-Cost Image Processing Technique, International Journal of Mathematical Sciences and Computing (IJMSC), Vol. 11, No. 2, 8 Jun. 2025, DOI: <https://doi.org/10.5815/ijmsc.2025.02.03>
6. Archana M R, Satish H S, Brijesh and Vinay Kumar “Effect of Utilization of Waste Marble on Indirect Tensile Strength Properties of Bituminous Concrete Mixes” Paper No. 632, Pg No. 36 to 42, Journal of the Indian Roads Congress, January - March 2015, Vol 76.
7. Archana M R, Sathish H S, Ashwin and Hanamant Hunashikatti “Effect of Waste plastics utilization on Indirect Tensile Strength properties of SDBC mixes”, Indian Highways, Page 69-78, February 2014.
8. Rakshith S, Archana M R, V Anjaneyappa, Analysis of pedestrian walkability index in urban footpaths, Urban, Planning and Transport Research RUPT, <https://doi.org/10.1080/21650020.2025.2557254>, September 2025, Taylor and Francis.

Conference Papers

1. Sourav Behera, Harsha V, M R Archana, Anjaneyappa, MS Amarnath, "Pavement Performance Models on Various Geographic and Traffic Conditions", International Conference on Transportation Planning & Implementation Methodologies for developing countries – TPMDC – 2016, 19th to 21st December 2016
2. Varuna M, Anjaneyappa and Amarnath MS "Studies on performance characteristics of warm recycled asphalt mixes" Souvenir, 78th Annual session, 3-6th Nov.2017, Indian Roads Congress, Bengaluru.
3. Prabhudev, Archana M R, Anjaneyappa, Amarnath M S, Veeraragavan, A. 'Prioritization of Pavement Maintenance Using Functional Adequacy Parameters of Pavement Networks for Rural Stretches', 6th Colloquium of Transportation Systems Engineering & Management, SV NIT, Surat, 23-24 May 2019
4. Neelesh Dindur, Archana M R, Anjaneyappa, Amarnath M S, Veeraragavan, A, 'MultiPeriod Scheduling of Pavement Maintenance', 6th 215 Colloquium of Transportation Systems Engineering & Management, SV NIT, Surat, 23-24 May 2019
5. Kuldeep, Archana M R, Anjaneyappa, Amarnath M S, Veeraragavan, A. 'Mechanistic Empirical Methodology for Pavement Maintenance Management', 6th 216 Colloquium of Transportation Systems Engineering & Management, SV NIT, Surat, 23-24 May 2019
6. Ashwini Gowda K. S, Archana M. R, Anjaneyappa V, Statistical Analysis for Optimization of Pavement Maintenance and Management System, National Conference on Resilient Infrastructure (NCRI 2020), 17th to 18th December 2020, organized by Kerala Highway Research Institute along with Indian Institute of Technology, Palakkad, Trivandrum.
7. Pradeep G, Ronak R K, Archana M R, V.Anjaneyappa and Veeraragavan A, "Decision Support System for Traffic Calming Measures Along Urban and Non-urban Roads", presented at 9th Conference on Transportation Systems Engineering and Management, (CTSEM 2023), NIT Warangal, October 12-14, 2023
8. Krupashankara D U, Archana M R, V.Anjaneyappa V, "Analysis of Pedestrian Safety at Crossings along Rural Highways", presented at 9th Conference on Transportation Systems Engineering and Management, (CTSEM 2023), NIT Warangal, October 12-14, 2023
9. Yadhu Rajan and M R. Archana "Functional evaluation of selected urban stretches", Advances in Research & Development and Dissemination of Interdisciplinary Developments For Sustainability", RVCE, Bangalore, on 25th and 27th April 2015
10. Pavan D and Archana M R "Development of Present Serviceability Index Model for Selected Flexible Pavement Stretches", Advances in Research & Development and Dissemination of Interdisciplinary Developments For Sustainability", RVCE, Bangalore, on 25th and 27th April 2015
11. Rahasya K R and Archana M R "Evaluation of Selected Inservice Flexible Pavements - Structural Number Concept", Advances in Research & Development and Dissemination of Interdisciplinary Developments For Sustainability", RVCE, Bangalore, on 25th and 27th April 2015
12. Priya Bajantri and Archana M R "Structural Evaluation of Selected Arterial Stretches", Advances in Research & Development and Dissemination of Interdisciplinary Developments For Sustainability", RVCE, Bangalore, on 25th and 27th April 2015
13. Yadhu Rajan, Rahasya K R, M R. Archana and Dr. M S Amarnath "Functional evaluation for selected arterial Stretches", 2nd Conference on Transportation Systems Engineering and Management, NIT Tiruchirappalli, India, May 1-2, 2015
14. Sushma K S, Vikram M Reddy, Archana M R, Sathish H S and Dr. M S Amarnath "A study of fatigue behaviour of bituminous concrete mixes with marble dust", International Conference on Sustainable Civil Infrastructures: Innovative Technologies and Materials, Indian Institute of Technology, Hyderabad, India, July 31, 2014
15. Amit Patted, Avinash Gowda, M R Archana and M.S. Amarnath "Pavement Performance evaluation for selected flexible stretches", IC-RICE International Conference on Recent Advance in Engineering Sciences, MSRIT, Bangalore, September 4-5, 2014.
16. Amit Patted, Avinash Gowda, M.R.Archana and M.S.Amarnath "Performance studies for evaluation of the sustainability for selected flexible stretches" , ISCSI 2014 International Conference on Sustainable Civil Infrastructure, Hyderabad, India, October 17-18 2014.

17. Sushma K S, Vikram M Reddy, Archana M R, Sathish H S and Dr. M S Amarnath “A study of fatigue behaviour of bituminous concrete mixes with marble dust”, International Conference on Sustainable Civil Infrastructures: Innovative Technologies and Materials, Indian Institute of Technology , Hyderabad, India, July 31, 2014.
18. Amit Patted, Avinash Gowda, M R Archana and M.S. Amarnath “Pavement Performance evaluation for selected flexible stretches”, IC-RICE International Conference on Recent Advance in Engineering Sciences, MSRIT, Bangalore, September 4-5, 2014.
19. Sushma K S, Vikram M Reddy, Archana M R, Sathish H S and Dr. M S Amarnath “A study of fatigue behaviour of bituminous concrete mixes with marble dust”, IC-RICE International Conference on Recent Advance in Engineering Sciences, MSRIT, Bangalore, September 4-5, 2014.

Books/Book Chapters

1. Kuldeep, Badiger, A., Archana, M.R., Anjaneyappa, V. (2022). “Effect of Speed Calming Measures on Vehicular Speed for Rural Roads”. In: Kumar, P.G., Subramaniam, K.V.L., Santhakumar, S.M., Satyam D., N. (eds) Recent Advances in Civil Engineering. Lecture Notes in Civil Engineering, vol 233. Springer, Singapore. https://doi.org/10.1007/978-981-19-0189-8_35, (<https://link.springer.com/book/10.1007/978-981-19-0189-8>)
2. Akshata Badiger, Kuldeep, Archana M.R. and V Anjaneyappa, “Effectiveness of Speed Calming Measures Along Arterial Roads”, Recent Advances in Transportation Systems Engineering and Management (select proceedings of CTSEM2021), Lecture notes in civil engineering, Volume 261, pp: 691-702, Springer, Singapore, https://doi.org/10.1007/978-981-19-2273-2_45
3. Santosh S K, Geethanjali S, Archana M R. and V Anjaneyappa, “Influence of Road Side Friction on Speed and Lateral Clearance for Different Types of Vehicles”, Transportation Systems Engineering and Management (select proceedings of CTSEM2021), Lecture notes in civil engineering, Volume 261, pp: 629-643, Springer, Singapore, https://doi.org/10.1007/978-981-19-2273-2_41
4. M. R. Archana, V. Anjaneyappa, M. S. Amarnath, and A. Veeraragavan, Penalties Due to Deferred Maintenance in Network Level Pavement Management, , Recent Advances in Transportation Systems Engineering and Management—Volume 2, Lecture Notes in Civil Engineering 545, Oct 2024, https://doi.org/10.1007/978-981-97-6071-8_16
5. D. V. Yashaswini, M. R. Archana, V. Anjaneyappa, R. Ravindra, and A. V. Veeraragavan, Statistical Analysis of Network Level Pavement Maintenance and Management System, Recent Advances in Transportation Systems Engineering and Management—Volume 2, Lecture Notes in Civil Engineering 545, Oct 2024, https://doi.org/10.1007/978-981-97-6071-8_16
6. S. Yashwanth, V. Anjaneyappa, and M. R. Archana, Assessment of Critical Distance for Pedestrians at Urban Crossings in a Heterogeneous Traffic Scenario, Recent Advances in Transportation Systems Engineering and Management — Volume 1, Lecture Notes in Civil Engineering 544, https://doi.org/10.1007/978-981-97-6075-6_15
7. R. Keerthan, V. Anjaneyappa, and M. R. Archana, Vehicular Speed Behaviour Along Road Construction Corridors, Recent Advances in Transportation Systems Engineering and Management — Volume 1, Lecture Notes in Civil Engineering 544, https://doi.org/10.1007/978-981-97-6075-6_15
8. Kiran S Sarjekar, Dr. MR Archana, Dr. Anjaneyappa, Dr. Chandrakumar R “Influence of Road Pavement Roughness on Carbon Emissions of Vehicular Traffic Travelling at Varying Speeds”, 8th International Conference on Computational System and Information Technology for Sustainable Solutions (CSITSS). (2024). <https://doi.org/10.1109/CSITSS64042.2024.10817047>
9. V Anjaneyappa, Varuna M, Archana M R, Sunil S, Ravishankar Holla, Shrish Shrinath Vaidya, "Smart Phone for Measurement of Reflectivity of Road Pavement Markings", 8th International Conference on Computational System and Information Technology for Sustainable Solutions (CSITSS), (2023). <https://doi.org/10.1109/CSITSS64042.2024.10817066>

Patents [Filed / Published / Granted]

1. Nil

R & Grants & Consultancy Projects

Ongoing & Completed Research Projects

1. “Insitu stabilization of reclaimed pavement materials for urban streets” to HSML, New Delhi under HUDCO chair program, RVCE.2016-2019, Fund: 5 lakhs, Co-Investigator
2. “Studies on retro reflective characteristics of pavement markings on selected urban and no urban roads” 2023-24, Fund: 2.5 lakhs, 3M India Limited, Co-Investigator.

Ongoing & Completed Consultancy Projects

1. “Post Implementation Project Appraisal for Road Safety Programme for State Highways and Major District Roads Spread across State”; Project Duration – 3 years (2020-23); Funding Agency: PWD, Govt. of Karnataka, Funding: 20 Lakhs, (Completed)
2. “Post Implementation Project Appraisal for Road Safety Programme for State Highways and Major District Roads Spread across State”; Project Duration – 3 years (2021-24); Funding Agency: PWD, Govt. of Karnataka, Funding: 3 Lakhs, (Completed).
3. Associated in testing, and delivering consultancy services for 3M India Ltd, L& T IDPL, Chennai, Ajax Private Limited and LIC India

Professional Memberships

1. Life Member – Indian Roads Congress
2. Life Member – Indian Society for Technical Education

Awards & Recognitions

1. Received Bihar PWD medal for Best Research Paper from Indian Road Congress, in 2016

Student Supervision

- **Ph.D. Candidates:** Nil
- **M.Tech/M.Sc. Students:** 40
- **Undergraduate Research Mentees:** 30

Professional Roles

1. Member of District Road Safety Committee, Bengaluru, Public Works Department, GoK.
2. Involved as Co-coordinator and attended ATAL FDP on “Sustainable and Smart Infrastructure” scheduled between 16th and 21st of December 2024
3. Involved as a Coordinator of the Technical Committee for the 8th IEEE International Conference on Computational Systems & Information Technology for Sustainable Solutions [CSITSS-2024] held during Nov 7th, 8th and 9th 2024.

4. Involved as a Coordinator of the Main Stage Committee for the 8th IEEE International Conference on Computational Systems & Information Technology for Sustainable Solutions [CSITSS-2024] held during Nov 7th, 8th and 9th 2024
5. Involved as core committee member for workshop on Universal Human Values for the V semester students of RV University on 9th and 10th of October 2024.
6. Through ASCE student chapter, facilitation for for students to organize various technical events are undertaken
 1. Hands on AutoCAD and Civil 3D Session for M.Tech Students through peer learning
 2. Promoting creative skill development among students from diverse branches via Madhubani Art in the course on ability enhancement.
 3. Hackathon for Intelligent Transport System and Structural Health Monitoring through interdisciplinary approach, for VI semester students.
 4. One-day Seminar on “Bridging Industry Practice: A holistic approach to structures, fluids and planning” is scheduled on 11.06.2025.
 5. Guest lecture by 3 prominent speakers on Sustainability is planned during the month of June 2025.

Teaching

Core Courses: [Current semester]

1. Pavement Design (MHT321IA)
2. Reliability based analysis in Civil Engineering (MST324C4)
3. Ability Enhancement Course (HS237LG)

Advanced/Lab Courses:

1. Pavement Design (MHT321IA)
2. Skill Laboratory (MHT415SL)
3. Design Thinking Laboratory (CV247DL)

Professional Roles

Responsibilities

- **Academic:** Assistant Professor, Civil Engineering
- **Administrative:** Central Time Table Officer, RV College of Engineering

External Connect

1. Member of BoS and BoE – UVCE
2. Advances in Research & Development and Dissemination of Interdisciplinary Developments For Sustainability”, RVCE, Bangalore, on 25th and 27th April 2015.
3. Cyber Security – A Challenge for Mankind – ELL 5”, cohosted by RVCE and ELL on 17th June 2015.
4. Have been a part of committee to organize the following training programs:

2024 – 25

AICTE - ATAL Faculty Development Program on “ Sustainable and Smart Infrastructure”16-21, December 2024, Venue: RV College of Engineering

2022-23

1. One-day training program on “Construction and Maintenance of Roads” for engineers of M/s Ground Reality (Pot hole Raja), 6th Jan 2023
2. One-day training on “Materials and Failures in Pavements” 30th November 2022

2021-22

1. One-day online training program on “Road Safety Engineering” on 21st Jan 2022, for the Engineers of Public Works Department, Govt. of Karnataka
2. Three days training program on “Road Safety Engineering” during 11-13th Oct.2021, for the Engineers of Public Works Department, Govt. of Karnataka

2019-20

1. One day training program on “Road Safety Engineering”, 31-01-2020, Engineers of PWP& IWT Department of Gulbarga Zone, Karnataka
2. One day training program on “Road Safety Engineering”, 11-12-2019, Engineers, Consultants, Contractors of Bengaluru and Ramanagaram Divisions, Karnataka
3. Three days training program on “Road Safety Engineering”, 27-29, Nov.2019, Engineers of PWP&IWT department, Govt. of Karnataka

2018-19

1. Three days training program on “Asset Management for Highways”, 26-28, Sep.2018, Engineers of PWP&IWT department, Govt. of Karnataka
2. Three days training program on “Modern Survey Techniques”, 17-19 Sep.2018, Engineers of PWP& IWT department, Govt. of Karnataka

2017-18

1. Three days training program on “Inspection, Repair and Rehabilitation of Pavements”, 25-27, July 2018, Engineers of PWP& IWT department, Govt. of Karnataka
2. Three days training program on “Quality Assurance / Management and Control in Highways”, 28-30, Nov.2017, Engineers of PWP& IWT department, Govt. of Karnataka
3. Three days training program on “Feasibility and Preparation of DPR”, 11-13, Oct.2017, Engineers of PWP& IWT department, Govt. of Karnataka

2016-17

1. Two days training program on “Road Safety Engineering”, 16-17, Sep.2016, Engineers of PWP& IWT department, Govt.of Karnataka
2. One-day training program on “Road Safety Engineering”, 6th May 2016, Engineers of PWP& IWT department, Govt.of Karnataka

2015-16

1. Two days training program on “Design, construction, maintenance, management of urban roads”, 8-20 Feb.2016, Engineers of Bruhat Bengaluru Mahanagara Palike
2. Two weeks training program on “Construction and Maintenance of Flexible Pavements”, 28-29, Jan 2016, Engineers of Bruhat Bengaluru Mahanagara Palike
3. Two days training program on “Road Safety Engineering”, 5-6th Nov.2015, Engineers of PWP& IWT department, Govt. of Karnataka
4. Two days training program on “Design of Flexible Pavements and Project reports, 8-9th Oct.2015, Engineers of PWP& IWT department, Govt. of Karnataka
5. Three days training program on “Road Safety Engineering”, 27-29, Aug. 2015, Engineers of PWP& IWT department, Govt. of Karnataka

6. Three days training program on “Road Safety Engineering”, 19-21, Aug. 2015, Engineers of PWP& IWT department, Govt. of Karnataka

2014-15

1. Two days training program on “Design and Maintenance of Pavements and Culverts, 10-11, March, 2015, Engineers of PWP& IWT department, Govt. of Karnataka