

Ph.D. Supervision

Sl. No.	Name of the Ph.D. Scholar	Title of Ph.D. Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award/Submitted
1	Janani L	Pavement Condition Assessment using Smartphone Sensors	Supervisor	2021
2	Rejani V. U.	Decision Support System for Urban Road Maintenance Management Based on Pavement Data	Supervisor	2021
3	Arjun Siva Rathan	Analysis of Concrete Paver Blocks Using Waste Materials	Supervisor	2022
4	Anusudha V.	Pavement subgrade stabilization using Coir Geotextile	Co-Supervisor	2022
5	Chetan R. Bhole	Performance Evaluation of Coir Geotextile Reinforced Rural Roads	Supervisor	Ongoing
6	Jegan Bharath Kumar A	Experimental Investigation of Moisture Susceptibility of Asphalt Mix	Supervisor	Ongoing
7	Chandra Prathap	Effect of Overloading on Pavements	Supervisor	Ongoing
8	Manjusha M	Distress Severity Level Detection of Pavement using Image Collected by UAV	Supervisor	Ongoing
9	Rekha Nair	Rheological Properties of Modified Bitumen	Supervisor	Ongoing

M.Tech. Supervision

Sl. No.	Title of Thesis	Name of student	Year of Completion
1.	Effect of Binder Content on Moisture Susceptibility of Bituminous Mixtures at Different Test Conditions	Anjumol M Sadhu	2022
2.	Development of Finite Element Response Model of Geocell Reinforced Pavements	Ankit Kumar Singh	2022
3.	Effect of Overloading on Flexible Pavement Performance	Kawaldeep Singh Bhatia	2022

4.	Investigation on the Performance of Warm Mix Asphalt with Reclaimed Asphalt Pavement	Nihil John	2022
5.	Performance Assessment of Plastic Waste Modified Bituminous Mix Pavements Constructed by Dry Process	Suneel Singh	2022
6.	Performance Assessment of Plastic Waste Modified Bitumen Pavement Constructed by Wet Process	Tejas Shrivastava	2022
7.	Study on the Effect of Geopolymer on Rheological Properties of Crumb Rubber Modified Binders	Tummala Venkata Ganesh	2022
8.	Cost- Benefit and Life Cycle Cost Study of Rigid and Flexible Pavements	Shreya Chitibhatta	2022
9.	Bus Passenger Origin Destination Matrix Estimation from Electronic Ticketing Machine Data	Susan Francis	2021
10.	Modelling the Attitude of Employees towards Public Transport using Structural Equation Approach	Shilpa Rajan	2021
11.	Impact of Covid-19 on Mode Choice Commuters	Sabavath Jawaharlal	2021
12.	Investigation of Moisture Damage of Hot Mix Asphalt using Artificial Neural Network	Mohit Singh Parihar	2021
13.	Two-Objective Optimization of Pavement Management System for Urban Roads	Bhupendra Sharma	2021
14.	Cycle Time Study and Optimisation of various Major Activities in Road Construction	Kavinraj K B	2021
15.	Stress Strain Analysis on Granular Sub Base and Stabilized Sub Base	Dhanavath Srikanth	2020
16.	Dynamic Segmentation of Urban Roads for Pavement Maintenance and Rehabilitation	Jyothis V Lal	2020
17.	Pavement Distress Detection Using Low Cost Sensors and Image Processing	P Sarath Chandra	2020
18.	Investigating the Effects of WMA Additives on Rheology of Bitumen	Prachi Malviya	2020
19.	Preparation of Design Charts for Coir Reinforced Pavements by Back Calculating the Resilient Modulus	Sampuri Subhash	2020
20.	Study on Pervious Paver Blocks under Static Loading	Vadapuram Aravinda Sai	2020
21.	Analysis of Structural Behaviour of Interlocking Concrete Block Pavement	Murshida P	2020
22.	Cost-Benefit and Life Cycle Cost Study of Flexible and Rigid Pavements	Vaddi Sai Prakash	2020
23.	Pavement Distress Detection using Smartphone and Image Processing	Nisha M Samuel	2019
24.	Road Roughness Assessment Using Smartphone Sensor	Rashmi Doley	2019

25.	Strategic Analysis for Urban Road Network Maintenance - A Case Study of Tiruchirappalli City	Kanchupati Venkateswarlu	2019
26.	Travel Demand Modelling for School Trips: A Case Study of Tiruchirappalli City	Suryansh Singh	2019
27.	Analysis of Flexible Pavement with Combination of Alternative Materials	Bhavinlal K	2019
28.	Effect of Short-Term Ageing on Asphalt Binders	Priyanka Pravin Suryawanshi	2019
29.	Experimental and Numerical Analysis of Coir Geotextile Reinforced Flexible Pavement	Chithu Babu	2019
30.	Prioritisation and Optimum Allocation of Funds for Pavement Maintenance and Rehabilitation	Manishita Das	2019
31.	Experimental Study on Mixture Characteristics of Warm Mix Asphalt	Satyanjuli Koch	2018
32.	Pavement Maintenance Management System using Functional Characteristics of Pavement	Raunak Kumar Dixit	2018
33.	Effect of Overloading of Vehicles in Pavement Design	Varun Kumar Danda	2018
34.	Rheology of Binders at Pavement Service Temperature	Sidarth Sahu	2018
35.	Study of Drainage Characteristics on Flexible Pavements	Ratti Chandra Sekhar	2018
36.	Experimental Investigation on the Rheological Properties of the Bitumen	Pasupuleti Sandhya Rani	2017
37.	Mix Characterization and Fatigue Performance of RAP	Divya K. Sadasivan	2017
38.	Optimization of Pavement Maintenance Management of Urban Roads in Tiruchirappalli District	Parvathy M. R.	2017
39.	Analysis of Coir Geotextile Pavements Using Finite Element Method	Dommeti Bhaskar	2017
40.	Evaluation of Coir Geotextile Reinforced Flexible Pavements	Charutha Mohan T.	2017
41.	Evaluation of Marshall Stability Properties and Fatigue Behaviour of Bituminous Mixes Using Waste Plastic	Mohit	2017
42.	Study on Effect of Coir Geotextile as Reinforcement in Flexible Pavement	M. Dhanunjaya	2016
43.	Cost Effective Rehabilitation Alternative for Flexible Pavements- Whitetopping	Shrey Agrawal	2016
44.	Evaluation of Properties of Subgrade Soil by In-situ and Laboratory Tests	T. Rajasekhar Rao	2016
45.	Mode Choice Modelling of Work Trips in Tiruchirappalli City Using Decision Tree	Bush B. Thomas	2016
46.	Laboratory Investigations on Reclaimed Asphalt Pavement	Prabeesha T. P.	2016
47.	Experimental Investigation on Rheological Properties of Modified Asphalt Binder by using Dynamic Shear Rheometer	Karan Salokhe	2016

48.	Pavement Management System for Urban Roads in Tiruchirappalli City using GAMS	Karthik K. R.	2015
49.	Evaluation of Performance Enhancers in Subgrade and Base Layers of Flexible Pavement	B. Anil Kumar	2015
50.	Experimental Investigation on the Properties of Modified Bitumen Binders	Puli Sridhar	2015
51.	Effect of Copper Slag as Replacement of Fine Aggregate in Sub-base Layer	K. Bhanu Prakash	2015
52.	Pavement Performance Model for PMGSY Roads in India	Praveen S. B.	2015
53.	Optimization of Maintenance Strategies of Urban Roads in Tiruchirappalli City	Cyril Santosh J.	2014
54.	Application of Jute and Coir Geotextiles in Flexible Pavement	Lijin Rajeev	2014
55.	Performance Studies on Bituminous Concrete Mixes Using Waste Plastics	Nizar M. U.	2014
56.	Effect of Flyash and Steel Slag in Sub-base layer	K. Venu Madhav	2014
57.	Experimental Investigation on Material Properties of Various Types of Binders	Latha D.	2014
58.	Experimental Analysis of Stone Matrix Asphalt with Additives	Naveen Kumar R.	2013
59.	Optimization of Pavement Management System for Urban Roads in Tiruchirappalli City	Navin Ganesh V.	2013
60.	Potential of Coir in Sub-Grade Improvement and Pavement Performance Study	E. Venkatraman	2013
61.	Comparative Study of Soil Strength Estimation Models Developed Based on CBR, DCP and Geogauge Test Results	Kapirapu Srinivas	2013
62.	Residential Location Modelling for Tiruchirappalli City	Manju K. R.	2013
63.	Experimental Study on Properties of Pervious Concrete and its Applicability in Pavement	Gourshetty Raju	2012
64.	Urban Pavement Maintenance Management System for Tiruchirappalli City	B.V. Bhargava Sai	2012
65.	Fatigue Behaviour Study of Sub-grade Soil with Performance Enhancers	K. Rama Devi	2012
66.	Pavement Distress Analysis using Image Processing Techniques	Pradyumna Sagar Sahoo	2011
67.	Urban Pavement Maintenance Management System for Tiruchirappalli City	R. Arichandran	2011
68.	Performance Study of Semi Dense Bituminous Concrete by adding Polymer Fibres	C.H Murali Krishna	2011
69.	Coir Geotextile Reinforced Rural Road Pavement Performance Study	Sudheer Kumar Raju	2011
70.	GIS – GPS Based Pavement Management System	Mohammed Shinas S.	2010
71.	Facility Based Regional Rural Road Planning	Arun Chandran	2009
72.	Genetic Algorithm Approach for Pavement Maintenance and Rehabilitation	P. Gauthaman	2009
73.	Application of Coir Geotextiles in Flexible Pavement	R. Sathya Prakash	2009

74.	Development of Performance Based Flexible Pavement Deterioration Models – A Case Study of NH – 210	E. Karthick	2009
75.	Study of Work Trip Pattern of Two Contrasting Residential Settlements in Tiruchirappalli City	Resmi R.	2007
76.	Regional Road Network Planning - A Case Study of Four Districts of Tamilnadu	Swathi N.	2007
77.	Experimental Investigation on the Partial Replacement of Fine Aggregate with Waste Granite Fines in Concrete Paving Block	Arjun Siva Rathan R.T.	2015
78.	Study on Effect of Modifiers on the Rheological Properties of Unaged Binder	Naguru Sai Rahul Reddy	2021

B.Tech. Supervision

Sl. No.	Title of Thesis	Year of Completion
1	Effect of Overloading on Flexible Pavement Performance	2022
2	Smartphone Based Pavement Distress Detection	2021
3	Experimental Investigation of Waste Plastic Mixed Bitumen	2020
4	Comparison of Simulated Models and Field Analysis of Overtaking Sight Distance for Heterogeneous Traffic	2019
5	Fatigue Analysis of Binder in Intermediate Pavement Temperature	2018
6	Challenges in Land Acquisition for Construction of Service Roads	2018
7	Predictive Modelling on NH67 and Accident analysis of Tiruchirappalli city	2017
8	Comparative Study of Actuated Signals and Fixed Signal in Tiruchirappalli City	2017
9	Household Trip Generation model for Abhishekapuram Zone in Tiruchirappalli	2016
10	Stabilization of Clay Soil by Adding Industrial Waste of Barium Carbide	2015
11	Roughness Prediction Model for Urban Pavement	2013
12	Deterioration Model for Urban Pavement	2012
13	Bus Transport Efficiency Assessment	2011
14	Locomotive Scheduling	2009
15	Effect of Gradation on the Properties of Bituminous Concrete Mixes	2008
16	Design of a Road Using MXroad	2007
17	Application of GIS in Real Estate	2007