



Director's Message



Greetings from NATPAC...

The major activities of NATPAC during the period January - March 2025 are presented in this Newsletter. During this period under report one research paper in scientific journal and seven conference proceedings have been published and thirty-two research papers were presented in national/international seminars by the Scientists of NATPAC.

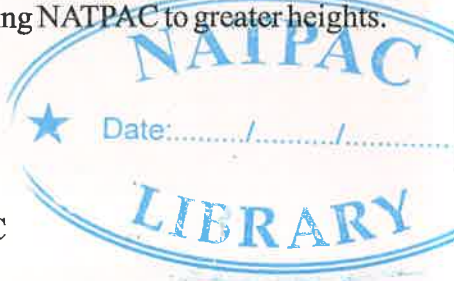
NATPAC organised one-day Seminar on 'Roads to a Sustainable Future: Biodiversity Conservation through Green Transportation' sponsored by Kerala State Biodiversity on 6th February 2025 at NATPAC Akkulam Campus. A Stakeholder Meeting was organised to showcase the activities of the Centre and to extend its support to solve various transportation issues/challenges faced by the stakeholders in Kerala at Ernakulam.

In connection with the celebration of Women's Day 2025 a Symposium was organised on the topic 'Role of Education in Empowering Women' on 11th March 2025, at NATPAC Akkulam Campus. The Centre won the ESRI India's GIS Day - Celebrate and Win Contest.

As the Director of NATPAC, I thank all the scientific, technical and administrative staff of NATPAC for their wholehearted cooperation for taking NATPAC to greater heights.

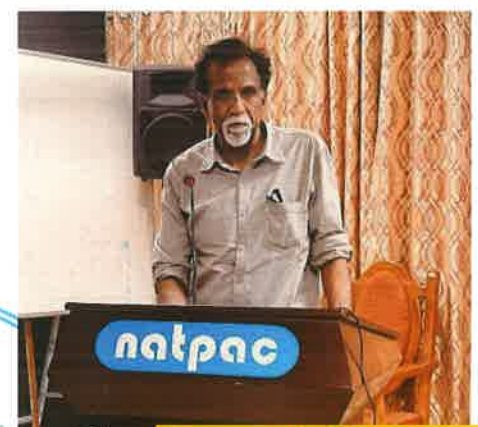
With Best Wishes

Prof. K.P.Sudheer
Director (i/c), KSCSTE-NATPAC



Seminar on Roads to a Sustainable Future: Biodiversity Conservation through Green Transportation

KSCSTE-National Transportation Planning and Research Centre (NATPAC) organised one-day Seminar on 'Roads to a Sustainable Future: Biodiversity Conservation through Green Transportation' sponsored by Kerala State Biodiversity Board (KSSB) on 6th February 2025 at NATPAC Akkulam Campus. Shri. Suresh Kumar K, Registrar, NATPAC delivered the welcome address and the program overview was given by Shri. Sanjay Kumar V S, Principal Scientist & Head, Traffic Engineering and Safety Division, NATPAC. The



Inaugural address by Dr. N. Anil Kumar



Technical Sessions

programme was inaugurated by Dr. N. Anil Kumar, Chairman, Kerala State Biodiversity Board. He shared his insights on strengthening conservation efforts in Kerala through sustainable transportation solutions and emphasized KSCSTE-NATPAC's vital role as a leading planning and research institution in shaping a more sustainable future. His presentation, 'How

to Complement Biodiversity Conservation Efforts in Kerala through Green Transportation?' shed light on the alarming rate of biodiversity loss, as the planet faces its sixth mass extinction due to deforestation, habitat fragmentation, and climate change. There was a total of 52 participants in the seminar that included students from various reputed educational institutes.

Technical Sessions

Sl. No.	Name	Designation	Topic
1.	Dr. Shaheem S	Principal Scientist, KSCSTE-NATPAC	Sustainable Transportation
2.	Shri. K.Vijayanathan IFS	CCF, Eastern Circle and Custodian of Vested Forests, Palakkad	Human-Animal Conflict
3.	Er. Kalaiarasan . P	Environmental Engineer, Directorate of Environment & Climate Change, Government of Kerala	Environmental Impact Assessment



Certificate distribution to the participants

Stakeholder Meeting

KSCSTE-NATPAC organised a Stakeholder Meeting at Govt. Guest House, Ernakulam on 12th February 2025 to showcase the activities of the Centre and to extend its support to solve various transportation issues / challenges faced by the stakeholders in Kerala. The programme was inaugurated by Shri. N.S.K Umesh IAS, District Collector, Ernakulam.



Women's Day 2025

KSCSTE-NATPAC organised a Symposium on the topic 'Role of Education in Empowering Women' on 11th March 2025, at NATPAC Akkulam Campus in connection with the observance of Women's Day 2025. Dr. Cicy Roy Mathew, Chairperson of the School of Good Shepherd, Former Principal of Kendriya Vidyalaya, and recipient of the National Award for Teachers, was the Chief Guest for the programme.



Exhibitions

Road Safety exhibition in connection with the 37th Kerala Science Congress, organized by KSCSTE, with coordination by KSCSTE-Kerala Forest Research Institute (KFRI) and Kerala Agricultural University, Thrissur at Kerala Agricultural University, Thrissur, 07.02.2025 – 10.02.2025.



Road Safety Training for Various Target Groups

Sl. No.	Program Details	Date	Venue	No. of Participants
1	Online Training on 'Road Safety Awareness'	16.01.2025	Training given to the faculties of Institutes under Directorate of Technical Education	80
2	Road Safety Awareness Program for Student Police Cadets	17.01.2025	Govt. HSS, Marayamuttom	80
3	Road Safety Awareness Programme for school students	22.01.2025	GHSS Peringolam, Kozhikode	45
4	Road safety training	28.01.2025	Federal Institute of Science and technology	60

5	Online Workshop on 'Identification of Road Accident Blackspots as per MORTH Criteria'	29.01.2025	Training given to Police Officials, GoK	40
6	Training Program on Road Safety and Youth Leadership	29.01.2025	Government Engineering College Barton Hill, Thiruvananthapuram	40
7	Safe Road to School	30.01.2025	KPMHSS Cheriavelinalloor	75
8	Road Safety and Youth Leadership Training Programme (RSYLP)	31.01.2025	SN College Kollam	150
9	Road Safety Quiz as part of Road Safety Month 2025 Observations	31.01.2025	Online	210
10	Road Safety Awareness Campaign	31.01.2025	Sarvodaya Vidyalaya ICSE School, Thiruvananthapuram	70
11	Road Safety Training Program for National Service Scheme Volunteers	31.01.2025	Mar Ivanios College, Thiruvananthapuram	70
12	Road Safety and Youth Leadership Training Programme (RSYLP)	14.02.2025	MG College, Thiruvananthapuram	60
13	Road Safety and Youth Leadership Training Programme (RSYLP)	28.02.2025	MMNSS College, Kottiyam	100
14	Training on Road Safety	05.03.2025	For employees of M/s. TERUMO PENPOL Pvt. Ltd, Vazhuthacaud	30
15	Safe Road to School	14.03.2025	SNVGHS Paravur for SPC cadets	40

Training / Invited Expert Talk

- a. Knowledge Dissemination Sessions on the 5-days short course on 'Advanced Choice Modelling Methods with Applications in Transportation and Urban Systems' at the Indian Institute of Science, Bengaluru, by Dr. Vasudevan N., Junior Scientist, TESD, 21st February 2025.
- b. Presentation by XR Horizon, a startup company aiming to bring innovative solutions to various industries through virtual environments, 25th February 2025.
- c. Demonstration of Roads India - Indian Highways/Road Data Analytics Software, by Mr. Viren Mehta, Director of Growth at Akara Research & Technologies, 14th March 2025.
- d. *TransTech Talk Series*
KSCSTE-NATPAC has initiated a technical talk series entitled "TransTech Talk Series" focussing on various aspects of Transportation sector.
- ▶ The twenty fourth talk in the series was delivered online by Dr. Jayalath Edirisinghe, University of Peradeniya, Sri Lanka on the topic "Towards a Sustainable Future: Investing In Public Transportation Systems" on 17th January 2025.

- ▶ The twenty fifth talk in the series was delivered online by Dr. Uma Maheswar Arepalli, Founding Director, Applied Research Professionals INC, Delaware, USA and Assistant Professor in the Department of Civil Engineering at SRM University, Andhra Pradesh on the topic “Advancements and Challenges in Flexible Pavement Design: Theory to Practice” on 7th March 2025.
- ▶ The twenty sixth talk in the series was delivered online by Shri. Salil Gokhale, P.E., Director of Consulting, Applied Research Associates, Inc. (ARA) on the topic “Pavement Engineering - State of Practice” on 28th March 2025.

e. TransPedia Research Talk Series

TransPedia is a distinctive endeavour from NATPAC, envisioned to promote research for shared benefits, by disseminating knowledge on diverse topics from cutting-edge technologies to sustainable solutions. This also brings out a platform for young researchers across the globe to connect and interact to better shape the future of research and development in transportation.

- ▶ The eighteenth talk in the series was delivered online on the topic “Influence of Braking Manoeuvres on the Reliability of Bituminous Pavements” on 29th January 2025 by Dr. Donia Savio, Indian Institute of Technology Madras.

- ▶ The nineteenth talk in the series was delivered online on the topic “To go, or Not to Go: The Dilemma during the Yellow Phase at Signalised Intersection” on 28th February 2025 by Dr. Ritvik Chauhan, Assistant Professor, Department of Civil Engineering, NIT - Tiruchirappalli.
- ▶ The twentieth talk in the series was delivered online on the topic “Examining the impacts of various roadway cross-sectional design elements on travel speeds through speed transition zones” on 26th March 2025 by Dr. Nischal Gupta, Research Associate, Michigan State University, East Lansing, USA.

Participation in Workshops, Seminars / Conferences and other Training Programmes

Name of Programme	Organised by	Date (s)	Venue	Participants
Seminars / Conferences				
Transportation Research Board 104th Annual Meeting (TRBAM)	Transportation Research Board, USA	05.01.2025 -09.01.2025	Washington DC, USA	Shri. B Anish Kini
P.T Bhaskara Panicker Memorial Lecture in connection with 37th Kerala Science Congress	Kerala State Council for Science - Technology and Environment (KSCSTE)	30.01.2025	Government College for Women, Thiruvananthapuram	Scientists of NATPAC
37th Kerala Science Congress	Kerala State Council for Science - Technology and Environment (KSCSTE)	07.02.2025 -10.02.2025	Kerala Agricultural University, Thrissur	Scientists of NATPAC, Postgraduate and Undergraduate students doing internship
Scientist Conclave	Kerala State Council for Science - Technology and Environment (KSCSTE)	15.02.2025	Centre for Water Resources Development and Management (CWRDM)	Scientists of NATPAC
ICRR 2025	NIT Calicut, TU Delft	27.02.2025 -01.03.2025	NIT Calicut	Dr.Sabitha N M

Third Annual World Bank Conference on Transport Economics	Transport Global Department of the World Bank	14.03.2025	Online	Dr. Sunitha Vijayan
2nd Vision Zero Summit, International Conference on Resilient Urbanism and Safe Mobility	MANIT, NIDM & ITPI	26.03.2025 -28.03.2025	EPCO, Madhya Pradesh	Shri. Ebin Sam S
Training Programmes				
Women in Space Allied Science Leadership Programme	DST in association with British Council under the UKEIRI programme	28.01.2025 -31.01.2025	IACS, Kolkata	Dr. Sabitha N M
E-Learning Course "Introduction to Behavioral Science in Public Policy"	World Bank Institute for Economic Development	17.02.2025 -27.03.2025	Online	Dr. Sunitha Vijayan
Sustainable Carbon-Free Technologies for Hydrogen Generation and Storage	NIT Trichy	24.02.2025 -01.03.2025	NIT Trichy (Online)	Shri. Tinku Casper D'Silva
Short term course on Data-Driven Statistics in Transportation	IIT Tirupati and IIT Kanpur	03.03.2025 -07.03.2025	Online	Dr. Shaheem S Shri. Wilson K C Smt. P N Salini Shri. Ebin Sam Dr. Salini U Dr. Praveen P S Dr. Vasudevan N Dr.Rameesha T V Dr. Sunitha Vijayan
Certificate course on the Preparation of DPRs	Indian Academy of Highway Engineers, MoRTH, New Delhi	17.03.2025 -22.03.2025	IAHE, New Delhi	Dr. Salini U Shri. R Chandra Prathap
Basics of OpenFOAM (Open-source Field Operation And Manipulation)	FOSSEE, IIT Bombay	18.03.2005	Online	Dr.Rameesha T V
AI & it's applications in Civil Engineering -An Overview -PART 2	Resource Centre for Asphalt and Soil Training Academy (RASTA)	18.03.2025 -21.03.2025	Online	Smt. P N Salini
Workshops				
Geo Spatial Technology (GIS, GPS, RS etc) for Roads and Transportation	CRRRI New Delhi	06.01.2025 -10.01.2025	CRRRI New Delhi	Dr. Shaheem S

5-Day Workshop on AI & Its Applications in Civil Engineering	RASTA	20.01.2025 24.01.2025	Online	Smt. P N Salini
Adaptive and Connected Signal Control Systems for Urban Traffic Management	IIT, Bombay	25.01.2025	IIT, Bombay	Shri. Arun Chandran Dr. Praveen P S
SPARC sponsored workshop on 'Safe System Perspective on Vulnerable Road users in India'	Transportation Division, Dept of Civil Engineering, NIT Warangal in Collaboration with Technology and Society Faculty of Engineering, LTH, Lund University, Sweden.	03.02.2025 -07.02.2025	NIT Warangal	Smt. Ardra S. Krishna
One Day Workshop on Socio Hydrology for Sustaining River and Ecosystem Health	NIT Calicut, TU Delft	03.03.2025	KTDC Kumarakom Gateway Resort, Thanneermukkom	Dr Sabitha N M
Vulnerability Assessment of Kerala's Core Road Network	Kerala State Transport Project & Lea Associates South Asia Pvt. Ltd.	18.03.2025	PWD Rest House, Thiruvananthapuram	Dr. Shaheem S Shri. Subin B Dr. Sabitha N M Shri. Wilson K.C Shri. A. Jegan Bharath Kumar
Development of prioritized work program and integrating RMMS with climate data	Kerala State Transport Project & Lea Associates South Asia Pvt. Ltd.	19.03.2025	PWD Rest House, Thiruvananthapuram	Dr. Sabitha N M Dr. Himasree P R
One-day program on "Safeguarding Natural Water Systems" as part of the observance of World Water Day 2025	KSCSTE-Centre for Water Resources Development and Management (CWRDM), Kozhikode	27.03.2025	CWRDM	Dr. Goutham Sarang Shri. Shijith P P
Webinars				
Smart Mobility and Technology Trends	UITP Asia-Pacific	23.01.2025	Online	Dr. Sanjai R J
Assessment and Management of Road Safety in the School Zone – Who is Responsible ?”	International Road Federation - India Chapter (IRF-IC)	27.01.2025	Online	Dr. Goutham Sarang Shri. Shijith P P

Strategy to Attract IT & ITeS: Learning from Kerala Experience	Gulati Institute of Finance and Taxation (GIFT), Thiruvananthapuram, Kerala,	31.01.2025	Online	Dr. Sunitha Vijayan
2030 Freight Forecasts: Trends and projections for EU and Beyond	International Road Transport Union	18.02.2025	Online	Dr. Sanjai R J
Unlock the Power of GIS in Architecture, Engineering, and Construction (AEC)	Environmental Systems Research Institute (ESRI)	19.02.2025	Online	Shri. M S Saran
Technical Writing- General aspects of paper writing and AI tools for paper writing	Mar Baselios College of Engineering and Technology (MBCET), Thiruvananthapuram	20.02.2025	Online	Shri. Wilson K C
Webinar series, titled "Data in Action: Using Global and Local Data Sources to Enhance Policy, Investment, and Implementation"- An Overview of the WHO Global Status Report on Road Safety	Asia Pacific Road Safety Observatory (APRSO)	11.03.2025	Online	Shri. Sanjay Kumar V S
Fair Warnings: Managing and Evaluating Fair & Effective Speed Safety Camera Programs	U.S. Vision Zero Network	19.03.2025	Online	Shri. Sanjay Kumar V S Dr. Goutham Sarang Shri. Shijith P P
Multi modal integration and Urban Green Mobility	Institute of Urban Transport (India), MoHUA	24.03.2025	Online	Dr. Shaheem S Shri. B Anish Kini
Webinar series, titled "Data in Action: Using Global and Local Data Sources to Enhance Policy, Investment, and Implementation"- Complementary Data and Resources to Inform Road Safety Planning and Implementation	Asia Pacific Road Safety Observatory (APRSO)	25.03.2025	Online	Shri. Sanjay Kumar V S
Cold mix asphalt (CMA) Technology for India	SRM University	26.03.2025	Online	Shri. Wilson K C Dr. Salini U Shri. R Chandra Prathap Dr. Goutham Sarang Shri. Shijith P P

NRPPD Webinar on "Political Economy of Land, Labour and Production in Tea Industry"	Centre for Development Studies, Thiruvananthapuram, Kerala	26.03.2025	Online	Dr. Sunitha Vijayan
Ask the Author: Incorporating Informal Transport in Mobility Planning	International Transport Forum	26.03.2025	Online	Dr. Sanjai R J



Shri. B. Anish Kini. Scientist at the Transportation Research Board's 104th Annual Meeting at Washington DC, USA

Students' Training / Project Work and Thesis

Details of guidance provided by the Scientific Divisions to students from various National Institutes and reputed Professional Colleges during this period is given below:

M.Tech/M.Plan/M.Sc.					
Sl No.	Name of the Institution	Course	Guide	No. of Students	Topic
1	NIT, Tiruchirappalli	M.Tech	Dr. Shaheem S	2	Optimising Parking Infrastructure and Pricing Mechanism for an Urban area: A case study of Attingal Municipality in Kerala
2	College of Engineering Guindy, Anna University	M.Tech	Shri. Wilson K C	1	Study on rutting and moisture susceptibility of different bituminous Mixes

3	Jyothi Engineering College, Thrissur	M.Tech	Smt. P N Salini	1	Speed Characteristics and Speed Prediction Modelling of Different Vehicle Types on Two Lane Highways
4	Rajiv Gandhi Institute of Technology, Kottayam	M.Tech	Shri. Ebin Sam	1	Optimizing emergency response time: A GIS based approach to ambulance routing
5	College of Engineering Guindy, Anna University	M.E TE	Dr. Salini U	1	Performance and comparison of field and laboratory permeabilities of different bituminous mixes
6	College of Engineering Trivandrum	M.Tech GE	Dr. Salini U	1	Geocell-reinforced weak subgrade with various infill waste materials under moving load
7	TKM College of Engineering	M.Tech	Shri. B Anish Kini	1	Feasibility study of Kollam Water Metro
8	BMS College of Engineering, Bengaluru	M.Tech	Dr. Praveen P S	2	Evaluation of safety scenarios of forced gap Behaviour using surrogate Safety indicators at Unsignalised intersections
9	NIT, Calicut	M.Tech	Dr. Vasudevan N	1	Crash prediction using Machine Learning Technique
10	NIT, Calicut	M.Tech	Dr. Vasudevan N	1	Development of an Open Mobility Network for improving first/last mile connectivity for KMRL
11	College of Engineering Trivandrum	M.Tech SE	Dr. Himasree P R	1	Performance analysis of HFRHPC slab culverts reinforced with steel and bamboo
12	College of Engineering Trivandrum	M.Tech SE	Dr. Himasree P R	1	Performance analysis of HFRHPC slab culverts reinforced with FRP bars

13	National Institute of Technology, Karnataka Surathkal	M.Tech	Dr. Anila Cyril	1	Integrated Performance Evaluation of Linear Bus Routes using Bootstrapped DEA and Stochastic Frontier Analysis
14	VTM NSS College, Dhanuvachapuram	M.A Economics	Dr. Sunitha Vijayan	1	An Economic Analysis of Willingness to Pay for Avoiding Road Accident Fatalities
15	VTM NSS College, Dhanuvachapuram	M.A Economics	Dr. Sunitha Vijayan	1	Estimation of Road Accident Cost with the Human Capital Approach

B.Tech

1	College Of Engineering and Management Punnapra	B. Tech	Dr. S. Shaheem	4	Parking policy development for Attingal Town in Kerala
2	College of Engineering, Muttathara	B. Tech	Dr. S. Shaheem	4	Parking policy development for Kalamassery Town in Kerala
3	Jyothy Engineering College, Thrissur	B. Tech	Shri. V S Sanjay Kumar	4	Analysis and Modelling of Pedestrian Crashes in Ernakulam
4	Muslim Association College of Engineering and Polytechnic, Venjaramood	B. Tech	Shri. V S Sanjay Kumar	3	Pedestrian Safety Assessment and Risk Mitigation of High-Risk Corridors
5	College Of Engineering and Technology, Payyannur	B. Tech	Dr. Sabitha N M	4	Morphometric Analysis and Flood Risk Assessment of Rivers Draining to Kuttanad Region using Geospatial Techniques
6	Trinity College Of Engineering, Naruvamoodu	B. Tech	Dr. Sabitha N M	4	Assessment of Mode Choice Behaviour of Commuters and Terminal Redesign for Inland Water Transport in Kuttanad
7	Muslim Association College of Engineering, Venjaramood	B. Tech	Dr. Sabitha N M	4	Boat Carrying Capacity of Kuttanad Waterbodies

8	Mar Baseliós College of Engineering and Technology	B. Tech	Shri. A. Jegan Bharath Kumar	4	Performance Prediction of HMA Using Machine Learning Techniques
9	Trinity College of Engineering Thiruvananthapuram	B. Tech	Shri. R Chandra prathap	4	Strategic Enhancement of Junction Safety and Traffic Flow:Nellimoodu-Kanjiramkulam M.D. Road and NH66 Intersection
10	Christ College of Engineering, Irinjalakuda, Thrissur	B. Tech	Dr. Vasudevan N	4	Analysing and modelling Park & Ride facilities for Kochi Metro Rail
11	School of Engineering, Cochin University of Science and Technology, Kalamassery.	B. Tech	Dr. Vasudevan N	6	Pedestrian, Parking and Traffic Management at JLN Stadium
12	Muthoot Institute of Technology and Science, Varikoli P O, Ernakulam	B. Tech	Dr. Vasudevan N	4	Traffic Management and Pavement Analysis for Kaloor-Kadavanthra Road
13	Musaliar College of Engineering and Technology, Pathanamthitta	B. Tech	Dr. Himasree P R	4	Experimental Investigation on Concrete using Bamboo Fibre and Coir Fibre
14	Cochin University of Science and Technology	B. Tech	Dr. Rameesha T V	6	Seismic Performance of an elevated water tank strengthened by linked Column frame considering

Publications and Presentations

Papers Published in Referred Journals

- Koshy S A, **Salini U**, Ajitha T, Praveen A. (2025). "Structural Performance Assessment of Lateritic Subgrade Under Varying Moisture Conditions". *Transportation Infrastructure Geotechnology*, 12(1), 1-24. <https://doi.org/10.1007/s40515-024-00482-8>.

Conference Proceedings

- Ajina A, Thomas J, Gireesh G, Salim S, **Shaheem S**. (2023). Analysis of Parking Preference of Users in Thiruvananthapuram City. *International Conference on Innovative Methods and Practical Applications for Cognizant Transportation Systems*. (pp. 425-439), Singapore: Springer Nature Singapore.
- Joseph, Soja R, **Sanjay Kumar V S**, S Archana, and K R Jinumol. (2025). A Comprehensive Review and Comparative Evaluation of Pedestrian Crash Prediction Approaches. *Proceedings of the Second International Conference in Civil Engineering for a Sustainable Planet: ICCESP 2024*, pp 287-297.
- **Salini P N**, Sreelakshmi P V, R Ashalatha, Binu Sara Mathew. (2025). Modelling Lateral Placement and Lateral Clearance during Passing Manoeuvres. *Transportation Research Procedia*, Volume 82, Pages 233-250, ISSN 23521465, <https://doi.org/10.1016/j.trpro.2024.12.040> (<https://www.sciencedirect.com/science/article/pii/S2352146524003387>)
- **Salini P N**, Rajendran K, Archana S, Archa S. (2025). Modeling the Potential Shift to Sustainable Modes and the Resultant Reduction in Carbon Emission. In: Sahu P K, Agarwal A, Kathuria A, Velaga N R (eds). *Proceedings of the 7th International Conference of Transportation Research Group of India (CTRG 2023), Lecture Notes in Civil Engineering*, vol 422. Springer, Singapore. https://doi.org/10.1007/978-981-97-9943-5_3.
- Faizy A, Ashalatha R, Shanoop P, **Chandran A**, **Salini P N**. (2025). Road Safety Evaluation of Stretches Along Safe Corridor Demonstration Project in Kerala, India. In: Veeraragavan A, Mathew S, Ramakrishnan P, Madhavan H. (eds). *Cognizant Transportation Systems: Challenges and Opportunities. IMPACTS 2023. Lecture Notes in Civil Engineering*, vol 263. Springer, Singapore. https://doi.org/10.1007/978-981-97-7300-8_11.
- **Sabitha N M**, Angela Theresa Chiyezhan, Chris Sejo, Anandh K G, Vaishnav M, Anna Joseph. (2024). Risk Assessment of Kochi Water Metro Using Analytical Hierarchy Process. *Proceedings of the Second International Conference in Civil Engineering for a Sustainable Planet: ICCESP 2024*. AIJR Publisher.
- **P R Himasree**, Athira Raj, Haripriya H, Chaaruchandra Korde, Sarif N, Sreedevi Lekshmi and Blessen Skariah Thomas. (2025). Developing and Enhancing the Properties of Hybrid Fibre-Reinforced High-Performance Concrete Sustainably for Rigid Pavement. *International Conference on Advances in Structural and Geotechnical Engineering (ASAGE'25)*, IIT Patna,

Publications/Presentation of Papers in Seminars / Workshops

SI No.	Author(s)	Paper Details	Date
1	Darshana Othayoth, Dr.T V Rameesha, B Anish Kini	<i>"Factors influencing passenger satisfaction with water metro: an ordered probit model estimation"</i> . Transportation Research Board 104th Annual Meeting (TRBAM), Washington DC, USA.	05.01.2025 - 09.01.2025
2	B Anish Kini, B K Bhavathrathan, Tom V Mathew	<i>"Identification of Priority Zones for Regional Dynamic Travel Demand Modeling in Areas Exhibiting Rural-Urban Continuum"</i> - Poster Presentation. Transportation Research Board 104th Annual Meeting (TRBAM), Washington DC, USA.	05.01.2025 - 09.01.2025
3	A Jegan Bharath Kumar, Lekshmi J.S, Dr.Sunitha V, Dr.Samson Mathew	<i>"Performance Assessment of Moisture Damage of Hot Mix Asphalt Using Admixtures"</i> . International Conference on Advances in Materials, Modeling, and Analysis for Sustainable and Resilient Infrastructure (AMMASRI'25), jointly organised by Amrita Vishwa Vidyapeetham, Coimbatore & National Institute of Technology, Tiruchirappalli.	09.01.2025 - 11.01.2025
4	Surendar Natarajan, A Jegan Bharath Kumar	<i>"Simulation of Extreme Flood Event Through Hydrologic & Hydraulic Modeling- A Case Study on 2015 Extreme Floods in Kovalam Basin, Tamil Nadu."</i> AMMASRI'25.	09.01.2025 - 11.01.2025
5	R Chandra prathap, Fathima C K	<i>"Evaluation of the Geometric Design consistency for a two-lane highway in rolling terrain"</i> . AMMASRI'25.	09.01.2025 - 11.01.2025
6	Sanjay Kumar V S, K R Jinumol, Ebin Sam S, MVL R Anjaneyulu	<i>"Identification and Clustering of High-Risk Road Corridors Based on Pedestrian Fatal Crashes"</i> . 37th Kerala Science Congress, organized by KSCSTE, with coordination by KSCSTE-Kerala Forest Research Institute (KFRI) and Kerala Agricultural University, Thrissur, at Kerala Agricultural University (KAU), Thrissur.	07.02.2025 - 10.02.2025
7	Dr.Shaheem S, Sajeetha Salim	<i>"Development of Parking Policy Framework for Palakkad Town"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
8	Ebin Sam S, Sanjay Kumar V S, Athulya B Anil	<i>"Evaluation of Spatial Interdependency of Crash Hotspots in Ernakulam District"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
9	V K Anagha, K R Jinumol, V S Sanjay Kumar, Geeva George	<i>"Comparison of Pedestrian Facilities with the Standards Across Selected Corridors"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025



10	S Megha, K R Jinumol, V S Sanjay Kumar	<i>"Evaluating the Impact of Bus Stops on Pedestrian Crashes in a Vulnerable Corridor"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
11	M S Saran, Nisha Radhakrishnan, P P Anjana	<i>"Mobile App for Real-Time Road Data Collection and Dissemination"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
12	A Jegan Bharath Kumar, R Chandra prathap	<i>"An Overview of Pavement Design for Coastal Highway: A Case Study of Thiruvananthapuram District"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
13	Resmi.V, R Chandra prathap, Salini U	<i>"Integrated drainage solutions for Plain and Rolling terrain: Case study of a coastal corridor in Kerala"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
14	Anna Mary Johnson, R Chandra prathap, Salini U	<i>"Laboratory investigation of the use of fiber reinforced plastic (FRP) as filler and binder modifier to hot bituminous mixes"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
15	Wilson K C, Dr. M Satyakumar, Sukanya K R	<i>"Experimental Analysis on the Durability of Bituminous Surface Mixes"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
16	Seba Sidhik, Wilson K C	<i>"Comparison between Stripping Value of Road Aggregates as per Is 6241-1971 And 6241-2024"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
17	Ashik K Azad, Dr. Shaheem S, Abhiram M P, Aquiline Jojo	<i>"Evaluation of Proposed Traffic Management Measures at Vattiyoorkavu Junction in Thiruvananthapuram City"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
18	Shijith P P, Ashik K Azad, Dr.Goutham Sarang, Dins Thomas, Athulya BR	<i>"Sustainable Pavement Rehabilitation Through Cold In-place Recycled Pavement - A Case Study in Kerala"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
19	Dr.Goutham Sarang, Shaik Shaheen, Shobhit Agarwal, Shijith P P, Athulya B R	<i>"Stabilization of sandy silt soil using sunflower seedshell powder for pavement subgrade"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
20	Afsana Salim, Hridya Suresh, Dr.Himasree P R	<i>"Biochar as replacement for cement in concrete"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025
21	Dr. Anila Cyril, Dr. Vasudevan N	<i>"Integrated Spatial Multi-Criteria Decision Analysis for Public Transportation: A Case Study of Thiruvananthapuram"</i> . 37th Kerala Science Congress.	07.02.2025 - 10.02.2025

22	Dr.Vasudevan N, Dr.Anila Cyril, Gaurang Joshi	<i>"Modeling Traveler's Preferences for Kochi Metro Rail using Integrated Choice Latent Variable Approach". 37th Kerala Science Congress.</i>	07.02.2025 - 10.02.2025
23	D'Silva, T C, Chandra R, Vijay V K, Kovacs K L, Gandhi B P, Semple KT	<i>"Development of a strategy to dark fermentation technology from mixed anaerobic cultures for enhanced biohydrogen production". 37th Kerala Science Congress.</i>	07.02.2025 - 10.02.2025
24	Salini P N, Nanditha A	<i>"Evaluating Pedestrian Facilities for Enhancing Safety of Pedestrians at Signalized Intersections" - (Poster presentation). 37th Kerala Science Congress.</i>	07.02.2025 - 10.02.2025
25	Dr.Sunitha Vijayan, Christabell P J, Errampalli Madhu	<i>"Economic Burden of Out-of-pocket Expenditure due to Road Traffic Injuries: An Empirical Assessment of Road Accident Cases Reported at Motor Accident Claims Tribunal (MACT), Thiruvananthapuram District". 37th Kerala Science Congress.</i>	07.02.2025 - 10.02.2025
26	B Anish Kini, Razal Kodappilly	<i>"Development of Multi-Depot Route Optimisation for Conventional and Electric Buses"- (Poster presentation). 37th Kerala Science Congress.</i>	07.02.2025 - 10.02.2025
27	Abhishek R, Dr.Praveen P S, Parthan Kunhikrishnan, Dr.Anila Cyril.	<i>"Safety Evaluation of Unsignalized Intersection Using Surrogate Safety Measure". 37th Kerala Science Congress.</i>	07.02.2025 - 10.02.2025
28	Dr.Praveen P S, Ashik K Azad, Gadha Gopan Anupama Krishnan	<i>"A case study on quantification of forced Gap behaviour based on speed variation". 37th Kerala Science Congress.</i>	07.02.2025 - 10.02.2025
29	Ardra S. Krishna, Darshana Othayoth	<i>"Evaluation of compliance of motorized two-wheeler lanes on a two-lane undivided highway in Kerala". 37th Kerala Science Congress.</i>	07.02.2025 - 10.02.2025
30	Dr.Sanjai R J, Smrudu T K	<i>"Vicissitudes of Taxi Industry in Kerala" - (Poster presentation). 37th Kerala Science Congress.</i>	07.02.2025 - 10.02.2025
31	Arun Chandran Ashwathy P	<i>"Traffic calming Measures for two Line Undivided Roads in Kerala and Determination of influence Zone" 37th Kerala Science Congress</i>	07.02.2025 - 10.02.2025
32	Salini P N, Nanditha A	<i>"Ensuring Pedestrian Safety: Evaluating Level of Service at Signalized Intersections"- (Poster presentation - online)". IRF-IC's Global Road Infratech Summit & Expo.</i>	06.03.2025 - 07.03.2025
33	Ebin Sam S, Sarath Kumar Ponugumati, Sanjay Kumar V S	<i>"GIS based Evaluation of Artificial Intelligent (AI) enforcement cameras on road safety in Kerala, India,". 2nd Vision Zero Simmit, MANIT Bhopal.</i>	26.03.2025 - 28.03.2025

Invited Talks / Media Interactions

Sl No.	Name & Designation of staff	Topic/Particulars	Event/Venue	Date
1	Shri. Sanjay Kumar V S, Principal Scientist	<i>Preventing Road Crashes and Protecting Lives by Cultivating a Road Safety Culture</i>	Road Safety Month Observations organised by the Technical Wing of National Safety Council - Kerala Chapter (Online)	29.01.2025
2	Shri. Sanjay Kumar V S, Principal Scientist	<i>Safe roads, bright futures: Navigating the Challenges of Road Safety</i>	National Road Safety Campaign by GoI organised by IIT Palakkad	05.03.2025
3	Dr. Shaheem.S Principal Scientist	<i>Guest Speaker</i>	“EV-Ready Kerala: A Policy Roundtable on Next-Gen Charging Solutions”, ANERT Office, Thiruvananthapuram	19.03.2025
4	Dr. Sabitha N M, Senior Scientist	<i>Institutional Arrangement</i>	Capacity Building and Training on Metro and Future Urban Rail Transport for South Zone	26.03.2025
5	Shri. M S Saran, Scientist	<i>Sustainable Transportation in Kerala</i>	Geo Odyssey 2025, University College Thiruvananthapuram	06.03.2025
6	Shri. A Jegan Bharath Kumar, Scientist	<i>Rigid Pavement Design</i>	Professional Development Programme, National Institute of Technical Teachers Training & Research (NITTTR), Chennai	20.02.2025
7	Dr. Praveen P S, Junior Scientist	<i>Understanding Traffic Surveys and Management Measures</i>	Mar Baselios College of Engineering and Technology	18.01.2025
8	Dr. Vasudevan N, Junior Scientist	<i>Resource Person</i>	Imparting the KTU curriculum-specific 3rd Module (Traffic Engineering) for the Course CET 206 - Transportation Engineering, Christ College of Engineering, Irinjalakuda	14.03.2025
9	Dr. Vasudevan N, Junior Scientist	<i>Land Use Models and Comprehensive Mobility Plan'</i>	Sahrdaya College of Engineering and Technology, Kodakara, Thrissur	17.03.2025
10	Dr. Anila Cyril, Junior Scientist	<i>Sustainable Public Transport and the Role of Electric Buses</i>	National Institute of Technology, Karnataka Surathkal	24.02.2025

11	Dr. Anila Cyril, Junior Scientist	<i>Electrification of Public Transport: Challenges and Solutions</i>	National Institute of Technology, Karnataka Surathkal	25.02.2025
12	Dr. Anila Cyril, Junior Scientist	<i>Intelligent Transportation Systems in Public Transportation</i>	St. Thomas College of Engineering, Chengannuur	27.02.2025
13	Shri. Shijith P P, Junior Scientist	<i>Road safety awareness</i>	As part of Road Safety Week 2025 for the road users, organized by Program Implementation Unit (PIU), Wayanad District at the seminar hall of Ambalavayal Panchayat, Wayanad	16.01.2025
14	Dr. Rameesha T V, Junior Scientist	<i>Visiting Faculty</i>	KMEA Engineering College for the subject "Climate change and sustainability" for 8th semester students	

Nominations to Technical committees /Advisory Bodies/Membership of Professional Institutions

Dr. Shaheem S

Member, LSGD Road Maintenance Fund Working Committee, 7th Finance Commission

Member, Working Group for the Development of an Infrastructure Sustainability Rating System, KIIFB

Dr. Sanjai R J

Member of Trivandrum Management Association (TMA)

Life Member of the Institute of Urban Transport (India)

Awards / Recognitions

- NATPAC, won the ESRI India's GIS Day - Celebrate and Win Contest
- Dr Sabitha N M, Senior Scientist, received the DST Support from WISE KIRAN Division for attending Women in Space Allied Science Leadership Programme conducted by DST in association with British Council under the UKEIRI programme at IACS, Kolkata, 28th to 31st January 2025.
- Shri. A Jegan Bharath Kumar, Scientist, awarded the prize for Best Paper in the theme Intelligent Transportation Systems. International Conference on Advances in Materials, Modeling, and Analysis for Sustainable and Resilient Infrastructure (AMMASRI'25) from 9th -11th January 2025, jointly organized by Amrita Vishwa Vidyapeetham, Coimbatore & NIT, Tiruchirappalli.



- Shri. M S Saran, Scientist, awarded the prize for Best Poster - "Mobile App for Real-Time Road Data Collection and Dissemination" under Engineering and Technology Session. 37th Kerala Science Congress, organized by KSCSTE, with coordination by KSCSTE-Kerala Forest Research Institute (KFRI) and Kerala Agricultural University, Thrissur, at Kerala Agricultural University (KAU), Thrissur, 7th to 10th February 2025.

Technical Documents Prepared

Report of the Visit to the Crash Location at Pullupara Bhagm, Kuttikkanam, Idukki, submitted to Inspector General of Police, Traffic & Road Safety Management, GoK.

Report of the Visit to the Crash Location near Panniyarkutty St. Mary's Church, Rajakkad, Idukki, submitted to Inspector General of Police, Traffic & Road Safety Management, GoK.

Report of the Visit to the Crash Location at Mattupetty Echo Point, Munnar, Idukki, submitted to Inspector General of Police, Traffic & Road Safety Management, GoK.

Safety Assessment of the Placement of Bus stops at Thazhe Mudoor, Omassery Panchayat, submitted to Omassery Grama Panchayat, Kozhikode District, Kerala.

Strategies for the Development of Transportation Infrastructure for the District Plan, Thiruvananthapuram.

Draft Road Safety Policy 2030 - Submitted to Transport Department, GoK.

Response to the representations from All Kerala Tiles and Sanitaryware Dealers Association regarding Freight Rates of Container Trailers, Submitted to Transport Department, GoK.

Proforma for Joint Inspection Report for Road Crash Investigation, submitted to the Inspector General of Police, Traffic & Road Safety Management, GoK.



CHANGE OF LEADERSHIP



Prof. (Dr.) Samson Mathew, has successfully completed 5 years as Director of NATPAC on 31st December 2024 and returned to his parent institute – NIT Tiruchirappally.

