

Brief CV



Personal and Educational Details

Employee Name	@IITD Since	Department & Designation
RAMACHANDRA RAO KALAGA	2003	Civil Engineering , Associate Professor

Degree	Specialization	Institute/University	Year
B.Tech.	Civil Engineering	Andhra University	1989
M.Tech.	Transportation Engineering	National Institute of Technology Warangal	1991
Ph.D.	Transportation Engineering	IIT Kharagpur	1998

Research Areas and Highlights

Traffic Flow Modelling, Mass Transit Planning, and Travel Demand Modelling, Road safety, Low carbon Mobility Planning.

Experience

I am trained as a Transportation Engineering specialist. After completing PhD in Transportation Engineering at IIT Kharagpur in 1998, I have started my teaching career in School of Engineering - University of KwaZulu Natal, Durban, South Africa (formerly University of Durban-Westville). Subsequently I worked in IIT Guwahati in Civil Engineering Department as Assistant Professor. Since 2003, I am working in IIT Delhi. Besides teaching and research, I am involved in various projects at national and international levels. The main focus area of the work during the past 5 years has been on development of traffic models in heterogeneous and safe environments. Besides, I am working on improvements of Bus transport systems, road safety and low carbon mobility.

Teaching Experience

17 Years, 10 Months

Industrial Experience

0 Years, 0 Months

Significant Publications

- G. Pandey, K. Ramachandra Rao D. Mohan, 'Gap maintaining behaviour on Urban Arterials', 10th International Conference on Transportation Planning & Implementation Methodologies for Developing Countries 2012 (TPMDC-2012), IIT Bombay, Dec 2012. , Conference , International
- K. Ramachandra Rao, and G. Tiwari, 'Construction zone traffic management– a case study on national highways widening in India', 2nd International Conference on Infrastructure Development in Africa (ICIDA 2013, Johannesburg, South Africa, March 2013. , Conference , International
- A. Agarwal, M. Zilske, K. Ramachandra Rao, K. Nagel, An Elegant and Computationally Efficient Approach for Heterogeneous Traffic Modelling using Agent Based Simulation, 4th International Workshop on Agent-based Mobility, Traffic and Transportation Models, Methodologies and Applications (ABMTRANS-'15), 2-5 June 2015, London. , Conference , International
- A. Mohan Rao, K. Ramachandra Rao, Measuring Urban Traffic Congestion – A Review, International Journal of Traffic and Transport Engineering, 2012, Vol 2 (4), 286-305 , Journal , International
- Ramu Arroju, Harikrishna Gaddam, Lakshmi Devi Vanumu, K. Ramachandra Rao. Comparative Evaluation of Roundabout Capacities under Heterogeneous Traffic Conditions, Journal of Modern Transportation, 2016 , Journal , International
- S.B. Ravi Gadepalli, M. Jahed, K. Ramachandra Rao, G. Tiwari, "Multiple Classification Analysis for Trip Production Models using Household Data: Case study of Patna, India, Journal of Urban Planning and Development – ASCE, 2013 , Journal , International

- Ch. Mallikarjuna and K. Ramachandra Rao, "Heterogeneous Traffic Modelling: A Complete Methodology", Transportmetrica, Vol 7., Issue 5, 2011, 321-345; , Journal , International
- Mohan Rao, K. Ramachandra Rao, Microscopic simulation to evaluate the traffic congestion mitigation strategies for urban arterials. European Transport Issue 58, 2015 , Journal , International

Academic and Research Contributions

Research Guidance (Total Nos. & Last 5 Years Data)

Category	Guidance Status	Total Guidance	In last 5 years
B.Tech.	Completed	50	18
M.Tech.	Completed	42	26
M.Tech.	In Progress	5	0
Ph.D.	In Progress	12	10
Ph.D.	Completed	3	2

Sponsored Research, Consultancy & Technology Development

Category	Total Projects	Total Value
Sponsored Research Projects	4	188
Technology Development	2	24
Consultancy	35	192

Type of Publication	Level of Publication	Total Publication	In last 5 years
Journal	International	18	11
Journal	National	6	2
Conference	International	34	15
Conference	National	9	0
Books Chapter	International	1	1
Books	National	1	1
Conference	International	29	12

Patent & IPR

Course Name	L-T-P	Course Belongs To
TRANSPORTATION ENGINEERING I	3-0-2	UG
TRAFFIC ENGG.	3-0-2	PG
GEOMETRIC DESIGN OF STREETS & HIGHWAYS	2-0-2	PG

Awards & Distinctions

- Indo-US Research Fellowship, Indo-US Science & Technology Forum, 2008
- DST Project for Young Scientists by Science and Engineering Research Council (SERC), Department of Science and Technology, Government of Indi (Research: Heterogeneous Traffic Flow Modelling for India)

Society Membership, Certification & Training & Any Other Details

- Life Member, Indian Roads Congress (IRC), New Delhi
- Fellow, Institution of Engineers (I), Kolkata
- Life member, Institute of Urban Transport, N Delhi
- Manual of Road Safety, Training workshop sponsored by National Highway Authority of India (NHAI), National Institute for Training of Highway

Engineers, Sep 2005

- Road Safety Audit, Pine Town, KwaZulu Natal Department of Transport, South Africa, March 1998