

# Curriculum Vitae

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## Dr. A. Gowri

Assistant Professor

Department of Civil Engineering

National Institute of Technology Karnataka, Surathkal

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## Education

Doctor of Philosophy Degree in Civil Engineering  
Specialising in Transportation Engineering  
Indian Institute of Technology Madras, INDIA, 2011

Master of Engineering Degree in Civil Engineering  
Specialising in Urban (Traffic) Engineering  
College of Engineering, Guindy, Anna University, INDIA, 2004

Bachelor of Engineering Degree in Geo-Informatics Engineering  
College of Engineering, Guindy, Anna University, INDIA, 2002

## Research Interests

Traffic Flow Modeling and Simulation

Traffic Operations and Management

Capacity Analysis of Traffic Facilities

Pedestrian Safety

Intelligent Transportation Systems

## Professional Experience

Assistant Professor

National Institute of Technology Karnataka, Mangalore, India

Nov 2013 - Present

Senior Research Project Officer

Indian Institute of Technology Madras, Chennai, India

May 2011 - Nov 2013

Research Project Officer

Indian Institute of Technology Madras, Chennai, India

Aug 2010 - May 2011

## Teaching Engagements

### *Undergraduate (B. Tech)*

CV201 Elements of Surveying (2014, 15, 16, 17)

CV217 Surveying Practice (2014, 15, 16, 17, 18)

CV216 Civil Engineering Materials Lab (2014)

### *Postgraduate (M. Tech)*

TS812 Road Safety and Traffic Management (2014)

CM706 Organizational Behaviour (2014)

TS806 Traffic Engineering and Management (2014, 15, 16, 17)

TS816 Traffic Simulation and Modeling (2015, 16, 17,18)

## Publications (*Appendix A*)

Articles Published	International	National
Book chapter	1	Nil
Journals	16	3
Conferences	24	13

## Research Guidance (*Appendix B*)

Ph. D.	- 2 (Ongoing)	
M.S./M. Tech. (Research)	- 1 (Completed)	1 (Ongoing)
M. Tech. Major Projects	- 23 (Completed)	4 (Ongoing)
B.Tech. Major Projects	- 3 (Completed)	1 (Ongoing)

## Major Research Collaboration

**Trajectory Data and Flow Characteristics of Mixed Traffic** (*In collaboration with Prof. Tomer Toledo, Technion-Israel Institute of Technology, Haifa, Israel*), 2014-2015.

**Development of Traffic Simulation Model for Linear Corridor** (*In collaboration with Prof. R. Sivanandan and Prof. Karthik K Srinivasan, IIT Madras*), 2014-till date

## Reviewer for the Journals (2017-2018)

Transportmetrica B: Transport Dynamics (Taylor and Francis)

Simulation Modeling Practice and Theory (Elsevier)

Journal of Intelligent Transportation Systems: Technology, Planning, and Operations (Taylor and Francis)

Transportation Letters: The International Journal of Transportation Research (Taylor and Francis)

Transportation in Developing Economies (Springer)

Journal of Traffic and Transportation Engineering (Elsevier)

Journal of Injury Control and Prevention (Taylor and Francis)

Engineering Optimization (Taylor and Francis)

## **Reviewer for the Conferences (2016-2017)**

TPMDC 2016, CTSEM 2017, NCTT 2017, CTRG 2017

## **Expert Lectures/Invited Talks**

- Delivered a Guest lecture on the topic of Application of Traffic Simulation Tool (s) in the Design and Operation of Highways for the working Engineers of Karnataka, Refresher course on Recent trends in Highway Pavement Design and Highway Geometrics at NITK Surathkal, September 2017.
- Delivered a Guest lecture on the topic of Traffic Engineering for PWD Engineers of Karnataka at NITK Surathkal, January 2015.
- Delivered a Guest lecture on the topic of Geometric Design and Traffic Survey for PWD Engineers of Karnataka, Refresher course on Design, Construction, Maintenance of all-weather roads at NITK Surathkal, September 2014.
- Delivered an Invited talk on the topic of Traffic Simulation models for Indian traffic conditions at Hindustan University, Chennai, June 2012

## **Workshops/Conferences Organized**

- Member of organizing committee for three day International Symposium on Lowland Technology held at Mangalore, September 15-17, 2016.
- Member of organizing committee for two day workshop on Recent trends in Piling and Ground Improvement, Department of Civil Engineering NITK Surathkal, July 31-Aug 1, 2015
- Coordinator for three days workshop on Mitigation of Road Disasters, Department of Civil Engineering, NITK Surathkal, September 15-17, 2014 (Jointly with Dr. Suresha, S. N.)
- Member of organizing committee for the First Annual Conference on Innovations and Developments in Civil Engineering 2014 (ACIDIC 2014), Department of Civil Engineering NITK Surathkal, May 19-20, 2014.

## **Professional Training/Symposium/Workshops/Conferences attended**

- Attended and presented a paper in 4<sup>th</sup> Conference on Transportation Research Group of India (CTRG) , IIT Bombay, Dec 2017
- Attended two days conference on Transportation Systems Engineering and Management at Anna University, Chennai during 12-13 May 2017.
- Attended one day workshop on Intelligent Transportation System held at Bangalore during January 2017.
- Attended two days workshop on Big Data for Transportation held at IIT Madras during December 2016.
- Attended 20<sup>th</sup> International Conference of Hong Kong Society for Transportation studies, December 2015, Hong Kong.
- Two days symposium on Teaching Learning in Higher Technical Education at IIT Madras during May 28-29, 2014.
- Attended Faculty Development Programme for Newly Recruited Faculty at NITK, Surathkal during December 16-26, 2013.

- Two days workshop on Sustainable Urban Freight Transport at IIT Madras, Chennai on June 2013.
- National Conference on Urban Mobility- Challenges, Solutions and Prospects , July 2012, Chennai, India
- Urban Mobility India Research Symposium, December 2012, Delhi, India
- Attended 90<sup>th</sup> Transportation Research Board Annual Meeting 2011, January 2011, Washington D.C., USA
- Conference on Infrastructure, Sustainable Transportation and Urban Planning, CD ROM, October 2010, Bangalore, India
- Four days workshop on Sustainable Urban Transport Planning, August 2009, IIT Madras, Chennai, India
- Five days workshop on Road Transportation Planning, November 2008, IIT Madras, Chennai, India
- Three days International Conference on Best Practices to Relieve Congestion on Mixed-Traffic Urban Streets in Developing Countries (BPRCM – 2008), September 2008, Chennai, India.
- One day workshop on Improving Traffic Flow in Chennai, February 2008, IIT Madras, Chennai, India
- Three days National conference on Sustainable Urban Transportation Issues and Management Strategies, December 2007, Surat, India.
- Three days Indo - US Workshop on Recent Advances in Transportation Engineering, January 2007, IIT Madras, Chennai, India
- 10<sup>th</sup> International conference on Applications of Advanced Technologies in Transportation (AATT 2008), May 2008, Athens, Greece.
- National Workshop on Strategies for Sustainable Environment, IIT Madras, Sep. 2007.

## **Awards and Grants**

- Best Paper Award, 4<sup>th</sup> Conference on Transportation Research Group of India (CTRG), IIT Bombay (2017)
- A group of B.Tech and M.Tech students won a best paper award in a Technical session of Conference on Transportation Systems Engineering and Management held at Anna University ( 2017)
- A group of B.Tech (Civil Engineering) students bagged best paper award (third price) in a National Symposium held at IIT Bombay (2016)
- Received International Travel Grant from Department of Science and Technology, India to present my research work in TRB Annual Meeting 2011, Washington D.C., USA.
- Gold Medal for First Rank (2004) in M. E. Programme awarded by Anna University, India
- C.T. Sriramalu Award for Scoring Highest Marks in M. E. Programme (2003) awarded by College of Engineering, Guindy, Anna University, Chennai, India.

## **Association with Professional Bodies**

- Life Member of Institute of Urban Transport (India)
- Member of Institution of Engineers (India)
- Member of Indian Road Congress

- Life Member of Transportation Research Group of India

### **Administrative Jobs Undertaken**

Faculty Advisor for III Year B. Tech Civil Engineering Students (Batch 2015-2019)

One of the Coordinators for Activities Related to NBA Accreditation (M.Tech. Transportation Engineering)

Faculty In-charge for Department Website Maintenance (2014-till date)

Faculty In-charge for Department Computer Lab (2016-till date)

Faculty In-charge for Transportation Design Studio and Lab (2015- till date)

Member in Purchase Committee

Member in Anti-Ragging Committee (2014-till date)

Member in Seating Arrangement Committee (2014, 15) and Registration Committee (2016, 17) during Convocation

## *Appendix A*

### *List of Publications*

#### *Book Chapter*

1. **Gowri Asaithambi, Martin Treiber and Venkatesan Kanagaraj.** Life Cycle Assessment of Conventional and Electric Vehicles, *Climate Protection in 21<sup>st</sup> Century*, Springer (Accepted).

#### *International Journals*

1. **Gowri Asaithambi** and Jibin Joseph (2018). "Modeling Duration of Lateral Shifts in Mixed Traffic Conditions." *Journal of Transportation Engineering, Part A: Systems, ASCE*. (Accepted)
2. Vipin, C. and **Gowri Asaithambi**. (2018). "Modelling Free-Flow Speeds on Undivided Roads in Mixed Traffic with Weak Lane Discipline." *Transportation Research Record*, Transportation Research Board, Washington D.C., USA (Accepted).
3. **Gowri Asaithambi**, Venkatesan Kanagaraj, Karthik K. Srinivasan and Sivanandan, R. (2018). "Study of Traffic Flow Characteristics using Different Vehicle-Following Models under Mixed Traffic Conditions." *Transportation Letters: The International Journal of Transportation Research* (Taylor and Francis). Vol. 10, No. 2, pp. 92-103.
4. **Gowri Asaithambi and Shravani, G.** (2017). "Overtaking Behavior of Vehicles on Undivided Roads in Non-Lane based Mixed Traffic Conditions." *Journal of Traffic and Transportation Engineering* (Elsevier), vol.4, No.3, pp. 252-261.
5. **Gowri Asaithambi**, Hayjy Sekar Mourie and Sivanandan, R. (2017). "Passenger Car Unit Estimation at Signalized Intersection for Non-lane Based Mixed Traffic Using Microscopic Simulation Model." *Periodica Polytechnica Transportation Engineering*, Vol. 45, No. 1, pp. 12-20.
6. **Gowri Asaithambi**, Venkatesan Kanagaraj and Tomer Toledo. (2016) "Driving Behaviors: Models and Challenges for non-lane based Mixed Traffic." *Journal of Transportation in Developing Economies* (Springer), 2: 19. DOI: 10.1007/s40890-016-0025-6.
7. **Gowri Asaithambi**, Manu O Kuttan and Sarath Chandra (2016). "Pedestrian Road Crossing Behavior under Mixed Traffic Conditions: A Comparative Study of an Intersection before and after Implementing Control Measures." *Journal of Transportation in Developing Economies* (Springer), 2:14. DOI: 10.1007/s40890-016-0018-5.
8. **Gowri Asaithambi** and Cheperu Anuroop. (2016). "Analysis of Occupation Time of Vehicles at Urban Unsignalized intersections in Non-lane-based Mixed Traffic Conditions." *Journal of Modern Transportation* (Springer), Vol. 24, No. 4, pp. 304-313.
9. **Gowri Asaithambi** and Sivanandan, R. (2015). "Evaluation of Right Turn Lane at Signalized Intersection in Non-Lane Based Heterogeneous Traffic using Microscopic Simulation Model." *Transportation Letters: The International Journal of Transportation Research* (Taylor and Francis), Vol.7, No.2, pp.61-72.
10. **Gowri Asaithambi**, Yogesh Kumar, R. V. and Sivanandan, R. (2015). "Microscopic Simulation for Modeling Exclusive Stopping Space for Motorcycles under Non-lane based Mixed Traffic Conditions." *European Transport*, No. 57. Paper No. 5.
11. Venkatesan Kanagaraj, **Gowri Asaithambi**, Tomer Toledo and Tzu-Chang Lee. (2015). "Trajectory Data and Flow Characteristics of Mixed Traffic." *Transportation Research Record*, No. 2491, Transportation Research Board, Washington, D.C., USA, pp. 1-11.

12. Venkatesan Kanagaraj, Karthik K. Srinivasan, Sivanandan, R. and **Gowri Asaithambi**. (2015). "Study of Unique Merging Behavior under Mixed Traffic Conditions." *Transportation Research Part F: Traffic Psychology and Behavior* (Elsevier), Vol. 29, pp. 98-112.
13. **Gowri Asaithambi**, Venkatesan Kanagaraj, Karthik K. Srinivasan and Sivanandan, R. (2012). "Mixed Traffic Characteristics on Urban Arterials with Significant Motorized Two-Wheeler Volumes: Role of Composition, Intra-Class Variability and Lack of Lane Discipline." *Transportation Research Record*, No. 2317, Transportation Research Board, Washington, D.C., USA, pp. 51-59.
14. **Gowri Asaithambi**, Venkatesan Kanagaraj and Sivanandan, R. (2009). "Object-oriented Methodology for Intersection Simulation Model under Heterogeneous Traffic Conditions." *Advances in Engineering Software* (Elsevier), Vol. 40, No. 10, pp. 1000-1010.
15. **Gowri Asaithambi** and Sivanandan, R. (2008). "Evaluation of Left Turn Channelisation at a Signalized Intersection under Heterogeneous Traffic Conditions." *Transport* (Taylor and Francis), Vol.23, No.3, 2008, pp. 221-229.
16. Venkatesan Kanagaraj, **Gowri Asaithambi** and Sivanandan, R. (2008). "Development of Microscopic Simulation Model for Heterogeneous Traffic using Object Oriented Approach." *Transportmetrica* (Taylor and Francis), Vol.4, No.3, pp. 227-247.

### *National Journals*

1. **Gowri Asaithambi** and Sivanandan, R. (2015). "Evaluation of Intersection Traffic Control Measures through Simulation." *Journal of the Institution of Engineers (India): Series A* (Springer), Vol. 96, No. 4, pp. 339-347.
2. Avinash, D., Sivanandan, R. and **Gowri, A.** (2014). "Evaluation of Exclusive Left Turn Lane at Signalised Intersection through Simulation." *Journal of Institute of Road Transport*, Vol. 15, July-September 2014, pp. 13-25.
3. Venkatesan Kanagaraj, **Gowri Asaithambi**, Karthik K. Srinivasan and Sivanandan, R. (2013). "Vehicle Classwise Analysis of Time Gaps and Headways under Mixed Traffic condition for Chennai city." *Journal of Institute of Road Transport*, Vol. 11, July-September 2013, pp. 1-31.

### *International Conferences*

1. Punith B. Kotagi, **Gowri Asaithambi** and Murthy, G. K. "Development of Microscopic Simulation Model for Bidirectional Mixed Traffic on Urban Roads." In Proceedings of the 97<sup>th</sup> Transportation Research Board Annual Meeting 2018, January 2018, Washington D.C., USA.
2. Pooja Raj, Shahana, **Gowri Asaithambi** and Ravi Shankar, A. U. "An Approach for Estimation of Passenger Car Unit Values of Vehicles Based on Influence of Neighbouring Vehicles." In Proceedings of the 97<sup>th</sup> Transportation Research Board Annual Meeting 2018, January 2018, Washington D.C., USA.
3. Anand, A. P., Priyanka, A., Viswasrirupa, A., **Gowri Asaithambi**, Srinivasan, K. K., Sivanandan, R. and Chilukuri, B.R. "Calibration of Vehicle Following Model Parameters using Mixed Traffic Trajectory Data." 4<sup>th</sup> Conference of the Transportation Research Group of India (CTRG), IIT Bombay, December 2017.

4. Aswini, T. and **Gowri Asaithambi**. “Capacity Analysis of Uncontrolled Intersections with and without Pedestrian Cross Flow in Mixed Traffic Conditions.” 4<sup>th</sup> Conference of the Transportation Research Group of India (CTRG), IIT Bombay, December 2017.
5. Manu O. Kuttan, Surjith Babu and **Gowri Asaithambi**. “Impact of Pedestrian Road Crossing on Capacity and Level of Service of Urban Undivided Roads in Indian Traffic Conditions.” In Proceedings of the 96<sup>th</sup> *Transportation Research Board Annual Meeting 2017*, January 2017, Washington D.C., USA.
6. Murthy, G. K., Munigety, C. R., Sreenivas Peeta, Mathew, T.V. and **Gowri Asaithambi**. “An Integrated Pedestrian Crossing Behavioural Model using Spring-Mass-Damper Dynamics.” In Proceedings of the 96<sup>th</sup> *Transportation Research Board Annual Meeting 2017*, January 2017, Washington D.C., USA.
7. Punith B. Kotagi and **Gowri Asaithambi**. “Simulation Framework for Modelling Bidirectional Mixed Traffic.” In *Proceedings of the 9<sup>th</sup> International Conference on Communication Systems and Networks*, January 2017, Bangalore, India.
8. Punith B. Kotagi, Pooja Raj, and **Gowri Asaithambi**. “Analysis and Modelling of Lateral Placement and Movement of Vehicles on Urban Undivided Roads.” In Proceedings of the 12<sup>th</sup> *International Conference on Transportation Planning, and Implementation Methodologies for Developing Countries (TPMDC 2016)*, December 2016, IIT Bombay, India.
9. Manu O. Kuttan, Surjith Babu and **Gowri Asaithambi**. “Analysis and Modelling of Pedestrian Crossing Pattern on Urban Undivided Roads.” In Proceedings of the 12<sup>th</sup> *International Conference on Transportation Planning, and Implementation Methodologies for Developing Countries*, December 2016, IIT Bombay, India.
10. Murthy, G. K., Vikrant Singh and **Gowri Asaithambi**. “Microscopic Analysis of Lateral and Longitudinal Gaps in Mixed Traffic Conditions with Weak Lane Discipline.” In Proceedings of the 12<sup>th</sup> *International Conference on Transportation Planning, and Implementation Methodologies for Developing Countries*, December 2016, IIT Bombay, India.
11. Aditya Parameswaran and **Gowri Asaithambi**. “Capacity Estimation of Uncontrolled Intersections in Mixed Traffic: Comparison of Gap Acceptance Procedure and Additive Conflict Flow Technique.” In Proceedings of the 12<sup>th</sup> *International Conference on Transportation Planning, and Implementation Methodologies for Developing Countries*, December 2016, IIT Bombay, India.
12. Satishkumar, A., Rao, A. M., Velmurugan, S. and **Gowri, A.** “Modelling of Operating Speeds for Urban Roads Under Heterogeneous Traffic Conditions.” In Proceedings of the 12<sup>th</sup> *International Conference on Transportation Planning, and Implementation Methodologies for Developing Countries*, December 2016, IIT Bombay, India.
13. **Gowri Asaithambi** and Sehle Basheer. “Analysis and Modelling of Vehicle Following Behaviour under Mixed Traffic Conditions.” In Proceedings of the 14<sup>th</sup> *World Conference on Transportation Research (WCTR 2016)*, July 2016, Shanghai, China.
14. Pooja Raj, Punith B. Kotagi and **Gowri Asaithambi**. “Lateral Distribution of Vehicles on Urban Undivided Roads in Non-Lane based Mixed Traffic Conditions.” In Proceedings of the 5<sup>th</sup> *International Engineering Symposium*, March 2016, Japan.
15. **Gowri Asaithambi** and Atthuru Mahesh. “Estimation of Motorcycle Unit for Motorcycle Dominated Mixed Traffic on Urban Roads in India.” In Proceedings of the 95<sup>th</sup>



*Transportation Research Board Annual Meeting 2016*, January 2016, Washington D.C., USA.

16. **Gowri Asaithambi** and Shravani, G. “Overtaking Behaviour of Vehicles on Undivided Roads under Mixed Traffic Conditions.” In *Proceedings of the 20<sup>th</sup> International Conference of Hong Kong Society for Transportation Studies*, December 2015, Hong Kong.
17. Venkatesan Kanagaraj, Karthik K. Srinivasan, Sivanandan, R. and **Gowri Asaithambi**. “Modeling Unique Merging Behavior under Mixed Traffic Conditions.” In *Proceedings of the 93<sup>rd</sup> Transportation Research Board Annual Meeting 2014*, January 2014, Washington D.C., USA.
18. Venkatesan Kanagaraj, **Gowri Asaithambi**, Naveen Kumar, Karthik K. Srinivasan and Sivanandan, R. “Evaluation of Different Vehicle Following Models under Mixed Traffic Conditions.” In *Proceedings of the 2<sup>nd</sup> Conference of Transportation Research Group of India (CTRG)*, December 2013, Agra, India.
19. Balaji Ponnu, Jomy Thomas, Kartikeya Jha, **Gowri Asaithambi** and Karthik K. Srinivasan. “Vehicle Class-wise Speed Volume model for Three-lane Undivided Urban Roads.” In *Proceedings of the 2<sup>nd</sup> Conference of Transportation Research Group of India (CTRG)*, December 2013, Agra, India.
20. **Gowri Asaithambi**, Yogesh Kumar, R. V. and Sivanandan, R. “Evaluation of Exclusive Stopping Space for Motorcycles at Signalized Intersections under Mixed Traffic Conditions using Simulation Model.” In *Proceedings of the 92<sup>nd</sup> Transportation Research Board Annual Meeting 2013*, January 2013, Washington D.C., USA.
21. **Gowri Asaithambi** and Sivanandan, R. “Traffic Data Collection and Processing for Calibration of Simulation Model.” In *Proceedings of the International Conference on Advances in Architecture and Civil Engineering*, June 2012, Bangalore, India.
22. Venkatesan Kanagaraj, **Gowri Asaithambi**, Karthik K. Srinivasan and Sivanandan, R. “Vehicle Classwise Quantification and Headway Analysis under Heterogeneous Traffic.” In *Proceedings of the 90<sup>th</sup> Transportation Research Board Annual Meeting 2011*, January 2011, Washington D.C., USA.
23. **Gowri, A.** and Sivanandan, R. “Efficacy of Left and Right Turn Lanes at Signalized Intersections under Heterogeneous Traffic Conditions.” In *Proceedings of the International Conference on Best Practices to Relieve Congestion on Mixed-Traffic Urban Streets in Developing Countries (BPRCM – 2008)*, September 2008, Chennai, India.
24. Gowri, A. and Sivanandan, R. “Evaluating the Efficacy of Right Turn Pockets at Signalized Intersections under Heterogeneous Traffic Conditions.” In *Proceedings of the 10<sup>th</sup> International conference on Applications of Advanced Technologies in Transportation (AATT 2008)*, May 2008, Athens, Greece.

### ***National Conferences***

1. Deeptha, M.S., Vikrant Singh, Senthil Thilak, A. and **Gowri Asaithambi**. “Identification of True Leader-Follower Pairs in Mixed Traffic Conditions using Weighted Graphs.” 4th Conference on Transportation Systems Engineering and Management, May 2017, Anna University, Chennai
2. Murthy, G. K., Suman Pokharel and **Gowri Asaithambi**. “Quantitative Determination of Vehicle Influence in Non-Lane Based Mixed Traffic Conditions.” 8<sup>th</sup> *National Civil Engineering Students' Symposium (NCESS)*, March 2016, IIT Bombay, India.

3. **Asaithambi.** “Modeling Gap Acceptance Behaviour of Vehicles at Uncontrolled Intersections under Mixed Traffic Conditions.” *Recent Advances in Traffic Engineering (RATE 2015)*, June 2015, SVNIT, Surat, India.
4. **Gowri Asaithambi,** Venkatesan Kanagaraj, Karthik K. Srinivasan and Sivanandan, R. “Study of Traffic Flow Characteristics using Different Vehicle Following Models under Mixed Traffic Conditions.” *Recent Advances in Traffic Engineering (RATE 2015)*, June 2015, SVNIT, Surat, India.
5. Sarath Chandra, Manu O. Kuttan and **Gowri, A.** “Pedestrian Crossing Behaviour at Urban Uncontrolled Intersections under Mixed Traffic Conditions.” *Transportation Young Researchers Symposium 2015*, May 2015, NIT Warangal, India.
6. Chepuru Anuroop and **Gowri Asaithambi.** “Analysis of Occupation Time of Vehicles at Uncontrolled Intersections under Mixed Traffic Conditions.” *2<sup>nd</sup> Conference on Transportation Systems Engineering and Management*, May 2015, NIT Tiruchirappalli, India.
7. Basheer, S. and **Gowri, A.** “Study of Vehicle Following Behaviour under Mixed Traffic Conditions.” *National Conference on Technological Innovations for Sustainable Infrastructure*, March 2015, NIT Calicut, India.
8. **Gowri, A.** and R. Sivanandan. Impact of Lane Segregation on Delays at Signalized Intersections under Mixed Traffic Conditions. *1<sup>st</sup> Annual Conference on Innovations and Developments in Civil Engineering 2014 (ACIDIC 2014)*, May 2014, NIT Karnataka, India.
9. Sarishka, G., **Gowri, A.** and Sivanandan, R. “Flow Characteristics of Heterogeneous Traffic with and without Adherence to Lane Following.” *Urban Mobility India Research Symposium*, December 2012, Delhi, India.
10. Yogesh Kumar, R. V., **Gowri, A.** and R. Sivanandan. “Influence of Vehicular Composition and Lane Discipline on Delays at Signalised Intersections under Heterogeneous Traffic Conditions.” *National Conference on Urban Mobility- Challenges, Solutions and Prospects*, July 2012, IIT Madras, India.
11. **Gowri, A.** and R. Sivanandan. “Microsimulation Modeling Framework for Evaluating Turn Lanes at Signalised Intersections.” *Conference on Infrastructure, Sustainable Transportation and Urban Planning*, CD ROM, October 2010, IISc. Bangalore, India.
12. Gowri, A. and Sivanandan, R. “Simulating Heterogeneous Traffic Flow at Urban Signalized Intersections.” *National Conference on Sustainable Urban Transportation Issues and Management Strategies*, December 2007, NIT Surat, India.
13. **Gowri, A.** and Subramanian, K. P. “Accident Analysis using GIS.” *National Conference on GIS Development: Prospects, Methodologies and Applications*, March 2004, Chennai, India.

## *Appendix B*

### Research Guidance

#### Ph.D. Thesis Guidance

Title of the Thesis	Name of the Student	Status
Development of Microscopic Simulation Model for Bidirectional Mixed Traffic on Urban Roads	Punith B. Kotagi	Ongoing (from July 2014)
Study of Impact of Road Side Frictions on Capacity of Urban Roads in Mixed Traffic using Microscopic Simulation Model	Pooja Raj	Ongoing (from July 2016) Co-Guide: Dr. A. U. Ravishankar, NITK

#### M.Tech. (Research) Thesis Guidance

Title of the Thesis	Name of the Student	Status
Analysis and Modeling of Lateral Placement and Movement of Vehicles on Urban Undivided Roads in Mixed Traffic	Pooja Raj	Completed in 2016

#### M.Tech. Project Guidance

SI. No.	Title of the Project	Name of the Student	Year of Completion/ Status
1	Estimation of Motorcycle Equivalent for Motorcycle Dominated Traffic at Urban Mid-block Sections	Atthuru Mahesh	2015
2	Analysis of Vehicular Delays at Uncontrolled Intersections under Mixed Traffic Conditions	Ch Anuroop	2015
3	Overtaking Behaviour of Vehicles on Undivided Roads under Mixed Traffic Conditions	G. Shravani	2015
4	Estimation of Saturation Flow at Signalized Intersection for Heterogeneous Traffic using Simulation Model	Hayjy Sekhar Mourie	2015
5	Accident Mapping using GIS – A Case Study of Kasaragod District	Kalesh M	2015
6	Vehicle Class-Wise Speed Flow Models for Urban Undivided Arterial	Nibin Dileeph	2015
7	Study of Lateral and Longitudinal Movement of Vehicles under Mixed Traffic Conditions	Sehle Basheer	2015
8	Modeling Gap Acceptance Behaviour at Uncontrolled Junctions	Shindon Baby	2015
9	Modeling Pedestrian Behaviour at Uncontrolled Intersections under Mixed Traffic Conditions	S.Sarath Chandra	2015
10	Estimation of Saturation Flow Rate at Signalized Intersections in Indian Traffic Conditions	Roshan Robert	2016
11	Modeling Lateral Movement Behavior of Vehicles on Urban Arterials using Mixed Traffic Trajectory Data	Jibin Joseph	2016
12	Impact of Pedestrian Road Crossing on Capacity of Urban Undivided Roads in Mixed Traffic	Surjith Babu	2016
13	Modeling Free-Flow Speeds on Undivided Roads in Mixed Traffic	Vipin. C	2016
14	Capacity Estimation of Uncontrolled Intersections in Mixed Traffic with Weak Lane Discipline	Aditya Parameswaran	2016

15	Vehicle Class-Wise Analysis of Time Gaps of Vehicles on Urban Undivided Roads in Mixed Traffic	Saladi Mounika	2016
16	Capacity and Level of Service for Varying Widths of Urban Roads and Influence of Frictional Parameters <i>External Guide:</i> Dr. S. Velmurugan, CRRI, Delhi	Satishkumar. S	2016
17	Study of Critical factors Affecting Logistics of High-Rise Buildings	Samanthula Ramakrishna	2016
18	Determination of Passenger Car Unit Values for Mixed Traffic Conditions based on Effective Space Method	Shahana	2017
19	Identification and Analysis of Leader-Follower Pairs Under Mixed Traffic Conditions. <i>External Guide:</i> Prof. Karthik K. Srinivasan, IIT Madras	Anusree Anand	2017
20	Modeling Urban Traffic Congestion – A Case Study of Mangalore City	Ranchana	2017
21	User Perception Based Level of Service for Uncontrolled Mid-Block Crossings Using Fuzzy Logic	G. Madhu Babu	2017
22	Capacity Analysis of Uncontrolled Intersections With and Without Pedestrian Cross Flow in Mixed Traffic Conditions	Aswini	2017
23	Quantification and Analysis of Vehicular Influence Area in Mixed Traffic Using Graph Theory	Deeptha	2017

#### B.Tech. Project Guidance

SI. No.	Title of the Project	Name of the Student	Year of Completion/ Status
1.	Development of a Pedestrian Behaviour Model (Major Project)	Sukarn Singh Upamanyu Mallik Vishnu Rajesh	2015
2.	Framework for various traffic Models under mixed traffic conditions <i>External Guide:</i> Prof. Tom V. Mathew, IIT Bombay	G. K. Murthy	2016
3.	Determination of Pedestrian Perceived Level of Service for Pedestrian Crossings using Fuzzy Logic	Rajat Varun	2017