

CURRICULUM VITAE



Dr. Apeksha Mendhe, AM ASCE (2017)

BE, MTech, PhD (Civil Engineering),

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Nagpur – 440013, Maharashtra, India

Social Networking: <https://www.linkedin.com/in/apekshamendhe>

Past Global Recognition: AM ASCE (USA) and GMICE (ICE LONDON)

^{BE}CIVIL ENGINEER/^{MTech}ENVIRONMENTAL ENGINEER/^{DOCTORAL}RESEARCH IN TRANSPORTATION ENGINEERING(PHD).

Civil engineer post graduated (M.tech) Environmental Engineering and completed Doctoral degree (Ph.D) in Transportation Engineering. Present (accomplished) Ph.D in Transportation Engineering, Road Safety Auditing work for Planning and design of motorized and Non-motorized traffic facilities. Former Project assistant (NEERI) Nagpur- ‘Water Safety Plan in and Around Nagpur city’. Research scholar potential fit into Equivalent Professional position of Doctorate degree, Road Safety Audit development in Geometrical improvement pattern of transportation & traffic facilities.

RESEARCH COMPETENCY

Evidence based Sustainable practice for recognized behavior of non-motorized traffic ○ Planning and Practices for road users under safety audit after site operation examination

- Guideline recommendation practices under traffic safety Auditing
- DO Vs BOD relation using MCDM- fuzzy technique
- Memberships of IWA, ASCE, ORCID id, Researcher id, GMICE - ICE
- Critical Competent check using software in research field.

Present Position

- **Assistant Professor** (Ad-Hoc) at B R Harne College of Engineering and Technology under consolidated pay band of 41k per month (Feb 2021 – till date).
- **Research Scholar (Accomplished Jan 2015- August 2020)**, National Institute of Technology, Surat (SVNIT), on Improvement of Geometric design of roundabout for pedestrian crossing under Road Safety Audit, Transportation Engineering and pavement design Lab.

Education

- **Ph. D. -Transportation, (January 2015 to August 2020)**
Thesis entitled: “**Improvement of Geometric design of roundabout for pedestrian crossing under Road Safety Audit**” under the supervision of **Dr. Rakesh Kumar, Dr. N J Mistry**, Professor, SVNIT Surat, Gujarat, India.
Autonomous Institute: Sardar Vallabhbhai National Institute of Technology-395007.
Marks Secured: 8.56 CGPA
- **Master’s Degree in Environmental Engineering (2012-2014)**
SVNIT Surat, Gujarat, India.
Marks Secured: 7.61 CGPA
- **Bachelor’s Degree in Civil Engineering -General (2008-2011)**
KDK College of Engineering, Nagpur, RTM Nagpur University.
Subjects: Civil Engineering, Environmental Engineering (Elective) and Pavement Design (Elective)
Percentage Secured: 68.5%.
- **HSSC RTM Nagpur University, Pune Board (2007)**
SFS College Nagpur
Subjects: General Science (PCMB)
Percentage Secured: 73.17%
- **SSC, Central School, CBSE Board (2005)**
Kendriya Vidyalaya Nagpur
Subjects: General Science (PCMB)
Percentage Secured: 56.6%

Conference Publications

- **National Conference Proceedings**
- 1. **Apeksha Mendhe, Rakesh Kumar, N J Mistry. “Indian scenario: study of high-speed rail corridor”.** Proceedings dated 21-23, 2017, 4th international conference on Industrial Engineering (ICIE-2017). Vol (I), ISBN: 987-93-86238-39-9 (Book **Proceedings Printed Article PUBLISHED- National - Presenting/ First Author**).

2. **Apeksha Mendhe, Rakesh Kumar, N J Mistry. “Pedestrian Crossing at Roundabout using Central Composite Design Approach”.** Proceedings 2018, 6th World conference on Applied Science, Engineering and Technology (WCASET-IFERP-2018). ISBN: 978-81-932966-9-1 (Compendium Proceedings Print PUBLISHED - National - Presenting/ First Author).
3. **Apeksha Mendhe, Rakesh Kumar, N J Mistry. “Risk Evaluation of Pedestrian Crossing at Indian Urban Roundabout”.** Proceedings 2018, 6th World conference on Applied Science, Engineering and Technology (WCASET-IFERP-2018). ISBN: 978-81-932966-9-1 (Compendium Proceedings Print PUBLISHED - National - Presenting/ First Author).

➤ **International Conference Proceedings**

- 1 **Apeksha Mendhe, Sandeep Tamgadge and Nilesh Tambe. “Countryside Lawsuit for Pedestrian Safety - A Literature under Road safety Audit”.** Second ASCE India Conference on “Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies” (CRSIDE2020), Hotel Novotel, Kolkata, March 2-4, 2020 (International - Presenting/ First Author)
- 2 **Apeksha Mendhe, Rakesh Kumar and N J Mistry.” Economic Evaluation for AHP Ranked Pedestrians crossing Retrofit Solutions – Geometrical Improvement at Roundabout”.** Second ASCE India Conference on “Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies” (CRSIDE2020), Hotel Novotel, Kolkata, March 2-4, 2020 (International - Presenting/ First Author)
- 3 **Apeksha Mendhe, Rakesh Kumar, N J Mistry. “Optimization of central island by SITI Equation inclusive of pedestrian facility on roundabout” (Article ID: 17), pp.745-756. Urbanization Challenges in emerging economics, ASCE Proceedings, [https://ascelibrary.org/doi/10.1061/9780784482025.076] (Sci-Proceedings Printed & Online Article PUBLISHED- International -Presenting/ First Author).**
- 4 **Apeksha Mendhe, N J Mistry, R A Christian. “Review of Pharmaceutical wastewater generation, impact assessment and wastewater treatment technology”.** Hydro – International conference on Hydraulics, Water Resources and River Engineering, Uttarakhand, Organized by IIT-Roorkee, India 17-19 Dec 2015. (Online Proceedings, International - Presenting/ First Author)

➤ **International Journal Article publications**

1. **Apeksha Adesh Mendhe, N J Mistry, Rakesh Kumar (April 2019). Analysis of Reduction in Pedestrian Waiting Time for Crossing Roundabout. (Article ID: IJCIET_10)04_072. International Journal of Civil Engineering and Technology (IJCIET,2019). Vol. (10), issue 4, April 2019. ISSN Print: 0976-6308 and ISSN Online: 0976-6316, pp. 684-694. Impact factor:9.1, Scopus indexed, peer-reviewed journal (Scopus Article PUBLISHED).**
2. **Apeksha Adesh Mendhe, Rakesh Kumar, N J Mistry (June 2018). Analysis of Multi Bump Barrier augmented zebra crossing for pedestrian at roundabout (Article ID: IJCIET_09)06_042. International Journal of Civil Engineering and**

	<p><i>Technology (IJCET, 2018)</i>. Vol. (9), Issue 6, June 2018. ISSN Print: 0976-6308 and ISSN Online: 0976-6316, pp. 363-372. Impact factor: 9.1, Scopus indexed, peer-reviewed journal (Scopus Article PUBLISHED).</p> <p>3. Mendhe A A, Kumar, R, and Mistry N J (2012). <i>Optimization of roundabout design elements</i> Tehnicki Vjesnik-Technical Gazette journal doi:10.1061/9780784482025.076 (SCI-indexed Article PUBLISHED)</p> <p>➤ National Journal Article publications</p> <p>None</p>				
Books/Book Chapter Publication	None				
Principal Subjects/	Civil Engineering, Environmental Engineering, Pavement design, Traffic and Transportation Engineering under Road Safety Audit.				
Teaching Experience	Institutes	Subject taught (BE)	Subject taught (Mtech/ME)	Duration	Experience
	B R Harne College of Engineering, Vangani Raigarh	-TRE-I -Water Resources Engineering-II	Research Methodology	Complete semester	15/06/2021- till date
	B R Harne College of Engineering, Vangani Raigarh	-TRE-II -Environmental Management	Reliability Engineering	Complete Semester	15/02/2021 – 15/06/2021
	G H Raison College of engineering and technology (GHRCEM), Wagholi Pune	-	No subject allotted/ administrative work	3 months	3 months
Early career Activity	Dynamic person since school days. Sportsperson; Handball regional player, silver medalist. Trekker (Camping) at Himachal Pradesh organized by National Adventure Foundation. Para- sailing, Rope Rappelling, river-crossing, rock climbing as extracurricular activities, 2 gradual years Woman cricketer at PG level collegiate tournament gold medalist.				

Research History

➤ DOCTORAL STUDIES

- **Institute-** Svnit, Surat Gujarat, From Jan 2015 – To August 2020
- **Position:** Worked as Full Time Institute Research Scholar (Ph.D.)
- **Topic:** Improvement of geometric design of roundabout or pedestrian crossing under Road Safety Audit.
- Review of characteristics of elderly road users at intersection and roundabout. Selection of alternatives over existing pedestrian crossing characteristics using analytical hierarchy process (AHP). Non-motorized traffic crossing at roundabouts using synchronized geometry improvement, practices adopted as mitigation measures. Onsite design of experiment (DOE) as work establishment of multiple bump barrier (MBB), analysis and results. Validation protocol model as central composite design using design expert software for MBB. Trial and error equation development methodology governing relation between central island diameter, circular weaving width with inscribed circle diameter (ICD).
- **Institute-** SVNIT, Surat, Gujarat from Jan 2015 – To Aug 2020
- -Associated Teaching with Full Time Institute Research (FIR). Classes arrangements, deliver lectures, practical lab handling and management (qualities, quotations and billing), tutorials valuations, exam paper setter, exam invigilator duty, exam paper valuation.

➤ Professional Experience

- **Institute-** National Environmental Engineering Research Institute (Neeri), Nagpur, Maharashtra from June 2014 – Dec 2014
- -Project Assistant- Level I – International Water Safety Plan by World Health Organization (WHO) for Developing country like India
- -Drinking water safety plan implementation in and around Nagpur and Amravati city accomplished Drinking water testing for various properties and water characteristics at frequent interval, report preparation etc.

➤ MTECH STUDIES

Institute- Svnit, Surat Gujarat from Jan 2012 – May 2014

- **M.Tech. Thesis:** Direct DO BOD relationship using Fuzzy modelling on Wastewater Effluent.
- Associated Lab Handling @ assistance-ship 6k/ month

Fellowship & Awards

1. **PhD TEQIP-II** (Technical Education Quality Improvement Program, Government of India), All India Council of technical Education, Full Time Institute Research Scholarship, Jan 2015 till 2020. 25K for 2015-2017 and 28K for 2017- 2019.

Certification

Certification course	Affiliation	Participated/ Successful/ grade	Year of participation
Certificate of Associate Member in ASCE	American Society of Civil	Successfully elected	2018

	Engineer (ASCE)		
Conference Poster Presentation Certificate	American Society of Civil Engineer (ASCE)	Successfully presented and attended	2017
Certificate of Statistics of Experimenters	Sardar Vallabhbhai National Institute of Technology	Successfully attended	2017
State of Art practices for characterisation of pavement materials and evaluation of pavements, two weeks (TEQIP-II)	Sardar Vallabhbhai National Institute of Technology	Successfully attended	2016
1 week Workshop on Data Mining (DMR)	Visvesvaraya National Institute of Technology	Successfully attended	2016
PTV Vissim Training Course	PTV Group	Successfully attended	2016
Finishing school on Statistics of Experiments (TEQIP-II)	Sardar Vallabhbhai National Institute of Technology	Successfully attended	2014
1-week STTP on Advances on wastewater treatment and energy generation	Sardar Vallabhbhai National Institute of Technology	Successfully participated	2013
30 wpm Typewriting	Maharashtra state council of examinations, Pune (Govt commercial certificate examination)	A grade	2011

Language(s)

English, Hindi, Marathi

Self-assessment Language

Understanding	Speaking	Writing
Yes	Yes	Yes

Technical Skills	<ol style="list-style-type: none"> 1. Can Operate Design Expert Software 2. Basics in AutoCAD draftsmanship. 3. Analysis and Validation of work by technically sound research work (SPSS software) and research article writing 	
Computer Skills	<ol style="list-style-type: none"> 1. Fluent in operating various software tools required for Transportation based studies & analysis. MS-Office, Turnitin software in research plagiarism. 2. Well-aware of high throughput on new technologies and software. 	
Reference Person	<p>Dr. Anant Parghi (Post-Doc) Assistant Professor Sardar Vallabhbhai National Institute of Technology, Icchachanath Surat- 395007. Email: anantparghi@gmail.com Phone: +91 9428457867, +916352587181</p> <p>Dr. Rakesh Kumar, PhD Professor, Transportation Engineering Dept. Civil Engineering Department Sardar Vallabhbhai National Institute of Technology, Surat (Gujarat), India Email: - krakesh1999@gmail.com Contact No.: - +919662039082.</p>	<p>Dr. Atul Pradeep Daiwile, PhD (Post-doc) 3120 Saint Paul Street, Apt No. A402, Baltimore, MD, 21218. Qtr. No. A/4, Gorewada Water Workers NMC Colony, Gorewada Road, Nagpur- 440013, Maharashtra, India Email: atul.daiwile@nih.gov, daiwile@gmail.com Phone: +919975214750, +14109006398 / +917709225758</p> <p>Dr. N J Mistry Retd. Professor Environmental Engineering Dept. Civil Engineering Department Genova Sardar Vallabhbhai National Institute of Technology Surat (Gujarat), India Tel:(+91) – 9426138288, Email: njm@ced.svnit.ac.in</p> <p>Dr. APEKSHA MENDHE PhD, SVNIT, Surat Gujarat India -395007</p>