

Name: Dr. K. Sai Sahitya

Designation: Assistant Professor

Department: Civil Engineering

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Experience (in years): 8 Teaching: 3 Research: 5 Others (if any, specify):

1. Educational / Technical qualifications:

| S.No | Level (UG / PG / Ph.D) | Year of passing | Specialization |
|------|------------------------|-----------------|----------------------------------|
| 1 | Ph.D | 2022 | Transportation Engineering |
| 2 | PG (M.Tech) | 2014 | Urban Transportation Engineering |
| 3 | UG (B.Tech) | 2012 | Civil Engineering |

2. Teaching and Learning:

- 2.1. Teaching Interests: Urban Transportation planning, Remote Sensing and GIS, Smart Cities
- 2.2. Novel Teaching & Learning Techniques adopted: Group discussions and Interactive class room sessions
- 2.3. Involvement in curriculum updating / Design: R22 Syllabus for M.Tech Highway Engineering

3. Co-curricular and Extra-Curricular Activities

- 3.1. Interests and Hobbies: Reading books, learning new things
- 3.2. CCA/ECA Organized: NIL
- 3.3. CCA/ECA participated: NIL
- 3.4. Counselling and Mentoring Activity: 10 students
- 3.5. Committees involved in:
 - Department level: Training and Placement, Academic Audit
 - Institute Level: NIL

4. Conference / Workshop / Seminar / Guest Lectures :

- 4.1 Conducted: NIL
- 4.2 Attended:
 - NBA Accreditation and Teaching-Learning in Engineering (NATE) - FDP
 - Smart Cities- Management of Smart Urban Infrastructures - FDP
 - Fundamentals of Artificial Intelligence - FDP
 - The Joy of Computing Using Python - FDP
 - Applications of Artificial Intelligence and Machine Learning in Civil Engineering - FDP
 - Enriching quality of Academics and Research in relevance to NEP 2020 - Workshop

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

- Resource Person to the Webinar on “Introduction to Smart Cities” organized at PVP Siddhartha Institute of Technology, Vijayawada

5.2. Articles / Chapters published in Books: NIL

5.3. Books published as single author or as editor:-NIL

5.4. Projects Guided:

a) UG :2 b) PG :1

5.5. Research Interests: Urban Transportation Planning, Smart Cities Planning and development

5.6. Ph.D students:

a) Enrolled: NIL b) Submitted: NIL c) Awarded: NIL

5.8. Papers presented at National / International Journals:

| S.No | Title of the Paper | Names of the Conference/ Seminars | National/ International | Period |
|------|---|---|----------------------------|--------|
| 1 | Modelling structural interdependent parameters of an urban road network using GIS | | International | 2019 |
| 2 | Evaluation of opportunity-based urban road network accessibility using GIS | | International | 2020 |
| 3. | Evaluation of Road Network Connectivity of Hyderabad City Using GIS | | International | 2020 |
| 4. | Fractal modelling of an urban road network using Geographical Information Systems (GIS) | | International | 2020 |
| 5. | Methodology for city-level urban road network connectivity analysis using Geographical Information Systems (GIS) | | International | 2020 |
| 6. | GIS-based urban road network accessibility modelling using MLR, ANN and ANFIS methods | | International | 2021 |
| 7. | Urban road network structural analysis and its relation with human settlements using Geographical Information Systems | | International | 2022 |
| 8. | Urban road network connectivity analysis using GIS: A Case Study of Hyderabad city | <i>Proceedings of the 5th Colloquium on Transportation Systems Engineering and Management (CTSEM2018) NIT Warangal</i> | | 2018 |

6. Awards / Honors received: Received Gold Medal as a topper in academics

7. Motto: A strong determination will decide our destiny