Date: September 18, 2023

To:

The Concerned Authorities, Administrative Department, IDPT (SCET), SU, Surat

From:

Kuldeep Sinh Jadeja, Assistant Professor (cont.), IDPT (SCET), SU, Surat

Subject: Seminar Visit Report

Dear sir/Ma'am,

I am writing to provide a report on the recent seminar. Our postgraduate level students from Master of Planning (M.Plan.) and Master of Architecture (M.Arch.) students attended a seminar on "Artificial Intelligence in Urban Planning." The seminar took place on September 16, 2023 at Parul University, Vaghodia and it was organised by Institute of Town Planners, India (ITPI). It was an enlightening and thought-provoking experience. Around 35 PG Students accompanied by 4 Faculty members from IDPT – SCET visited the Seminar.

Faculties – Prof. Vishal Shah, Prof. Hardik Gandhi, Prof. Chintan Shah, Prof. Kuldeep Sinh Jadeja

Students – 28 Students from 1st Year PG, 7 Students from 2nd Year PG = 35 Students in Total

Introduction: The seminar aimed to explore the transformative potential of artificial intelligence (AI) in the field of urban planning and its implications for sustainable and efficient urban development. The seminar held in 6 sessions revolving around application of AI and machine learning and real world case studies for urban planning and development.

Key Takeaways:

1. **AI for Data Analysis:** 1st and 2nd session was focused on use of AI tools and open data to enhance AI driven solutions in planning domain. One of the primary applications discussed was the use of AI for data analysis. AI-driven algorithms can process vast amounts of urban data, such as traffic patterns, energy consumption, and demographic information, to derive valuable insights for urban planners. This data-driven approach can inform decisions related to infrastructure development and resource allocation.

2. **Predictive Modelling Technology:** The seminar highlighted how AI can facilitate predictive modelling in urban planning while making TP Scheme, Valuation and Costing in construction projects. Machine learning algorithms can forecast trends, such as population growth, transportation demands, and housing needs. This predictive capability can aid in long-term urban development planning.

3. **Case Studies:** 4th, 5th and 6th sessions was focused on application of AI Tools in various cases. Real-world case studies showcased successful implementations of AI in various urban planning projects. These examples demonstrated the tangible benefits of AI in optimizing resource utilization and enhancing urban sustainability.

Panel Discussions and Q&A: The seminar featured engaging panel discussions with experts in both urban planning and AI. These discussions encouraged critical thinking and provided students with the opportunity to ask questions and seek clarifications.

Networking: The seminar provided an excellent networking opportunity while Lunch break. Our students had the chance to interact with professionals from diverse backgrounds, including urban planners, researchers, and policymakers. These connections may prove invaluable as they embark on their careers.

Conclusion: In conclusion, the seminar on "Artificial Intelligence in Urban Planning" was an eye-opening experience for our postgraduate students. It shed light on the immense potential of AI in reshaping the urban planning landscape. It also underscored the importance of ethical considerations and the need for interdisciplinary collaboration in this evolving field.

Our students returned with a deeper understanding of AI's role in urban planning and a renewed enthusiasm for exploring innovative solutions to urban challenges. I believe this seminar has been a valuable addition to their education and will contribute significantly to their future careers in urban planning.

Sincerely,

Kuldeep Sinh Jadeja,
Assistant Professor (cont.),
IDPT (SCET), SU, Surat
Kuldeepsinh.jadeja@scet.ac.in, 9106410334

