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## A STUDY ON URBAN PLANNING AND DESIGN IN DELHI NCR

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### ABSTRACT

Urban planning and design are essential for creating sustainable and liveable cities in the 21st century. Key strategies and best practices include mixed-use development, transit-oriented design, green infrastructure, and community engagement. Mixed-use development combines different land uses, such as residential, commercial, and office space, in the same area. This can help to reduce car dependence, create more vibrant and walkable communities, and promote social interaction. Green infrastructure uses natural systems to manage storm water runoff, improve air quality, and provide other environmental benefits. Examples include green roofs, rain gardens.

Community engagement is essential to ensure that the needs and values of the community are reflected in urban planning and design. Case studies from around the world, such as Copenhagen, Denmark, demonstrate the success of these strategies in creating sustainable and liveable urban environments. Achieving sustainable urban development is a complex challenge, but it is essential for the well-being of city dwellers and the planet as a whole. Urban planners and designers play a vital role in creating sustainable and liveable urban environments.

### Introduction

The epicentres of human civilization, as well as centres of commerce, culture, and innovation, are urban regions. With more than half of the world's population already living in cities and this number anticipated to keep growing in the upcoming decades, the globe is undergoing an unparalleled trend of urbanization (United Nations, 2022-2023). Policymakers, urban planners, and designers are faced with opportunities as well as difficulties as a result of the continued urban growth. The quality of life, environmental sustainability, and general well-being of a city's people are significantly impacted by its planning, design, and management.

This study explores the intricate and varied world of urban planning and design, a subject that straddles the fields of sociology, economics, environmental science, and architecture. Urban planning and design are plays major impacts in the society.

### Objective

- To Identify Best Practises:
- To Provide Sustainable Development.
- Aim to provide eco-friendly development

### Literature review

**Urban Design and Planning:** The subjects of architecture, environmental science, sociology, economics, and public policy are all impacted by the diverse disciplines of urban planning and design. It is essential to read the literature that has influenced the growth of these subjects in order to comprehend the present state of study in this area.

**Urban Planning and Design's Historical Evolution:** There have been substantial changes in thought and practise throughout the history of urban planning and design. In the 19th and early 20th centuries, early urban planning initiatives frequently placed a strong emphasis on cleanliness and aesthetics. An example of a top-down, large-scale strategy to urban redevelopment is Haussmann's renovation of Paris in the middle of the 19th century.

Urban Sustainability Development: With a focus on renewable energy, green infrastructure, and eco-friendly planning, sustainability is a major subject.

Getting Around and Mobility Transit systems: pricing, and the effects of cutting-edge technology like autonomous cars are all investigated in transportation planning.

Housing that is affordable and inclusivity: Focus areas include gentrification and housing affordability, as well as zoning and community trust studies.

Community Participation: The usefulness of community engagement approaches in planning procedures is investigated.

Technologies and Smart Cities: Technology and data-driven "smart cities" improve urban services and efficiency.

Social Justice and Equity: In order to address issues of justice and inequality, imbalances brought on by urban policy must be minimised.

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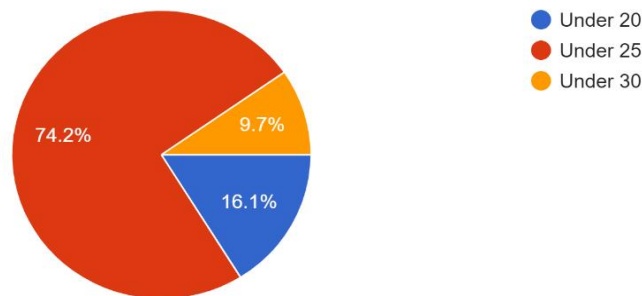
## Research Methodology

- Literature review
- Quantitative survey and data analysis
- Participatory action research
- Questionnaire

## DATA ANALYSIS

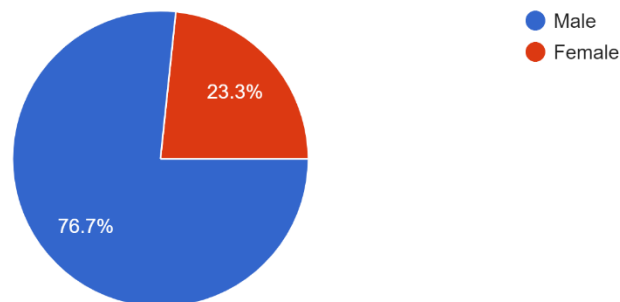
### What is your Age

31 responses



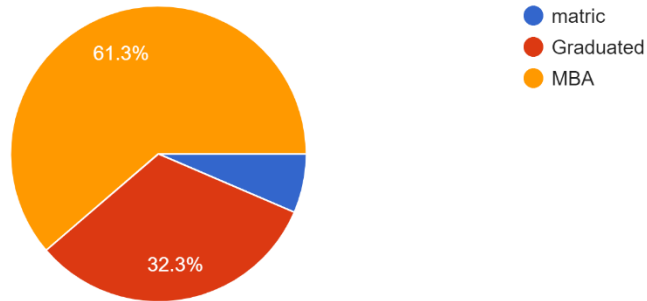
### What is your Gender

30 responses



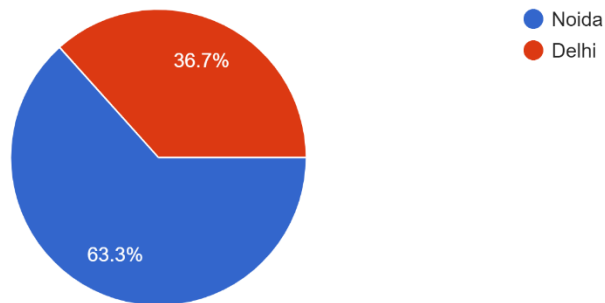
### What is level of your Education

31 responses



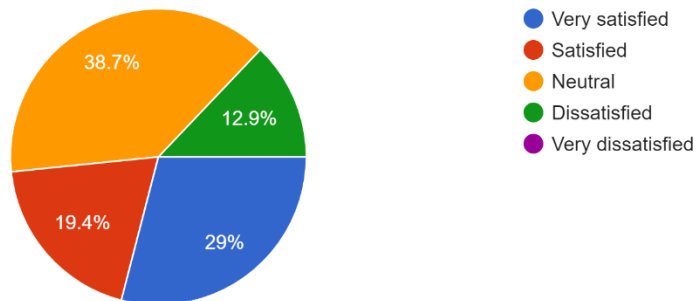
### In which city or region do you currently reside?

30 responses



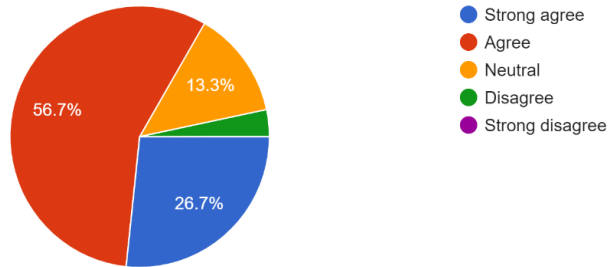
### How satisfied are you with the public transportation system in your city?

31 responses



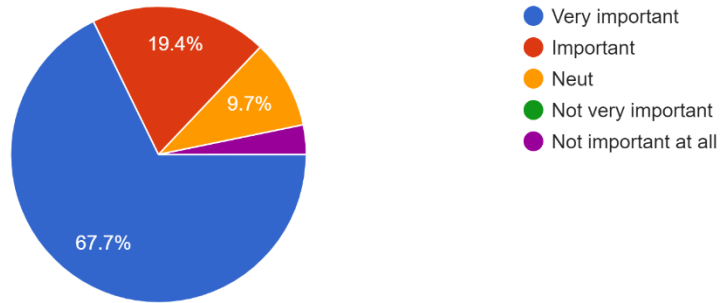
Do you think your city urban planning promotes sustainability and environmental conservation

30 responses



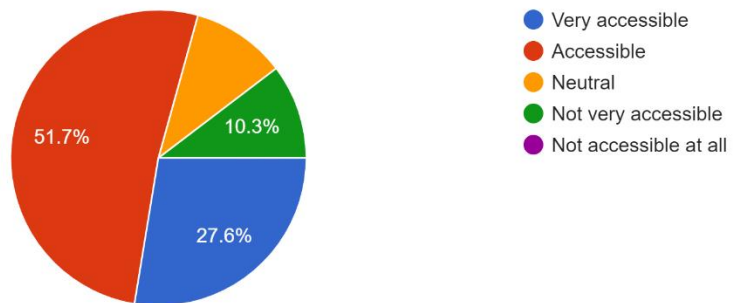
How important is the availability of green spaces( parks Gardens) in your neighborhood to you ?

31 responses



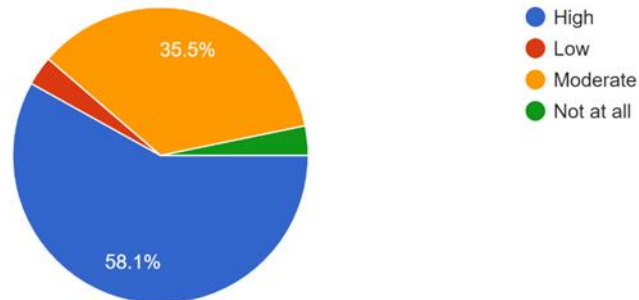
How you notice any urban Development or construction projects in your city ?

29 responses



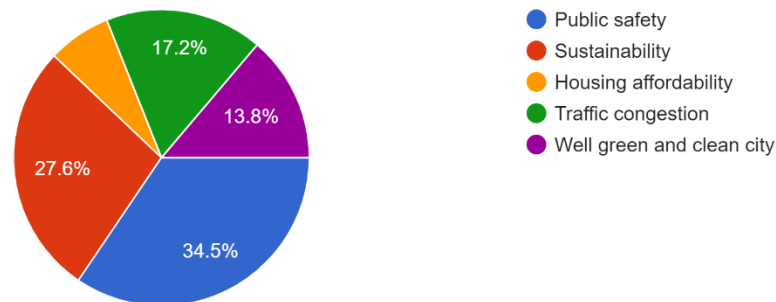
### What is traffic situation in your city?

31 responses



### In your opinion what is the most pressing urban planning and design challenge in your city. What solution would you suggest?

29 responses



## Findings

- According to our 32 respondents, 74.2% are under the age of 25, 16.1% are under 20, 9.7% are under age of 30.
- According to our 30 responses, 76.7% were male and 23.3% were female.
- According to our 31 responses, 61.3% were MBA graduates, 32.3% were graduated, and rest are metric pass.
- Our respondents were 63.3% from Noida, and 36.7% were from Delhi
- Out of our 31 respondents, 38.7% were neutral, 19.4% were satisfied, 29% were very satisfied and 12.9% were dissatisfied with the public transportation system.
- Out of our 30 respondents, 56.7% were agreed, 13.3% were neutral, 26.7% were strongly agreed and rest disagreed with sustainable and environmental conservation of city urban planning.
- Out of our 31 respondents, 67.7% were emphasized very important, 19.4% said it's important, 9.7% said neutral and rest said not important at all for green spaces in neighbourhood.
- Out of 29 respondent we got 51.7% were accessible and 27.6% very accessible and 10.3% were not very accessible 13% were neutral
- Out of 31 respondents, 58.1% said high, 35.5% said moderate, and rest said low to the traffic situation in their city.
- Out of 29 respondents, 27.6% said sustainability, 17.2% said traffic congestion, 13.8% said well clean and green city, and 34.5% said public safety.

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## Recommendation

- According to pie chart most of most of majority of people who wants to promote sustainability and environmental conservation
- So we need to promote urbanization and design of city without harming environment
- According to pie chart availability of green spaces we need to improve green parks and gardens in nearby of houses
- Accordingly to pie chart we majority of the people always try to avoid more polluted work noises in the city. They want peaceful working culture
- According to pie chart the number of people are maximum who are saying traffic is high. So therefore it is important to improve public transportation and road connectivity in the city.
- As per the pie chart, public prefer more of public safety and sustainability in there city during urbanization and design planning of cities.

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## Conclusion

- Urban planning and design play a crucial role in shaping the future of our cities and communities.
- Sustainable Development: Urban planning and design should prioritize sustainability, focusing on environmentally friendly practices, efficient land use, and the integration of green spaces to create liveable and resilient cities.
- Community Engagement: Successful urban planning and design involve the active participation of communities. Engaging citizens in decision-making processes helps ensure that urban spaces meet their needs and aspirations.
- Transportation and Accessibility: Efficient public transportation systems, walkability, and cycling infrastructure are integral to reducing congestion and promoting accessibility in cities.
- Mixed Land Uses: A well-planned city should have mixed land uses, encouraging a blend of residential, commercial, and recreational spaces to reduce the need for long commutes and promote local economies.
- Heritage and Culture: Preserving and celebrating a city's cultural heritage through design is important for maintaining a sense of identity and history.

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