

## **Redesigning junction space for sufficient road use of schonaugasse-grazbachgasse junction urban space in Graz Styria Austria.**

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**Keywords:** *Vehicular parking, ground topographies, sufficient pedestrian mobility and Junction urban space*

### **Introduction**

The study was to redesign Junction space for sufficient road use of Schonaugasse Grazbachgasse Junction urban space Graz Styria Austria. Junction urban space is a modern connecting public place. And sufficient road use is effective usage of public space by the different road users.

### **Objectives of the study**

- i) To investigate the role of dimensions in a Junction space on pedestrian mobility.
- ii) To establish the relationship between a Junction space and the safety of pedestrians.
- iii) To explore through a proto-type redesigning a Junction space for sufficient road use.

### **Methodology**

Qualitative research approach, descriptive research design, participant observational method visualization method and proto typing method.

### **Findings**

- i. Pedestrian space and safety being imperative in any urban space planning, dimensions of other ground topographies in Schonaugasse Grazbachgasse Junction urban space should be adjusted and more space created for sufficient pedestrian mobility.
- ii. More space which is adequate should be added no pedestrian facilities to guarantee their safety in urban Junction space.
- iii. Proto types revealed that measurements on ground topographies should be adjusted to have sufficient pedestrian spaces. The study created more space pedestrians, more green area was created, trees were suggested to be planted, vehicular and bicycle parking was relocated from the center of the Junction.

### **Recommendations**

- i. Further studies should be done in exploring possibilities of Schonaugasse Grazbachgasse Junction urban space being a shared space.
- ii. Further research should be conducted on the appropriate materials that can serve the trio solar systems of Graz in this urban Junction space.
- iii. Pedestrian lanes should be increased to at least two meters and three at most. Additionally, pedestrian space should be guarded for intended use only.
- iv. Further research should be done on specific trees to be planted in this Junction. Tree should not be very tall, there are electric wire cables from electric power box in the center of the Junction.

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