

# COMFORTABLE CITY ENVIRONMENT THROUGH THE EYES OF STUDENTS

**Makarova Zlata Vyacheslavovna**

*2nd-year student of the Volga State University of Technology, Yoshkar-Ola, Russian Federation, [kaktuc131@gmail.com](mailto:kaktuc131@gmail.com)*

*Supervisor:*

**Borodov Vladimir Evgenievich**

*Associate Professor at the Department of Building Design, FSBEI of HE "Volga State University of Technology", Yoshkar-Ola, Russian Federation*

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## **Annotation**

*The younger generation is the future of our civilization or its improved copy. Students - generators of ideas, project concepts. The main thing is to direct and show the right way in time, indicating the range of possible actions. Students-architects, on whom the future of our environment depends, should be well aware that a person needs a comfortable, accessible habitat, because a person reacts to his environment, not only shaping his behavior. The environment generates a complex set of mental processes. Many significant human values are associated with it, including artistic and aesthetic values. The environment can be loved or causing negative emotions - it is important to keep this in mind even at the stage of developing design concepts for the improvement of the territory of the city.*

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## **Introduction**

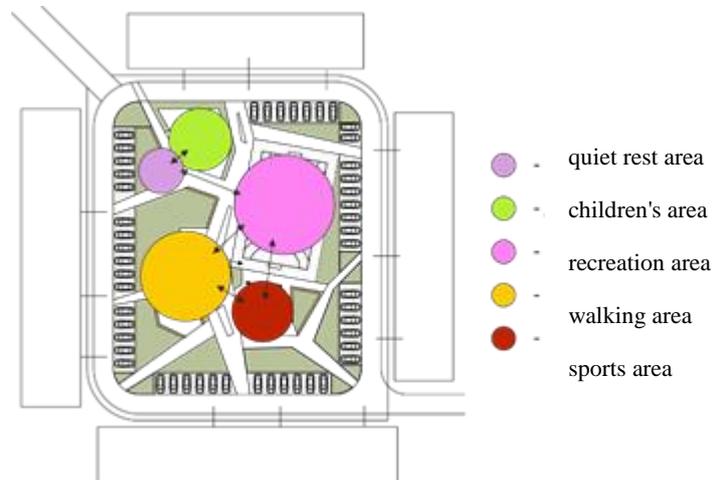
Healing is a process that can only happen within ourselves, but things outside of us can initiate, support and strengthen it. Therefore, it is not meaningless to talk about the healing environment and the healing properties of the environment. Whether they are natural places or artificially created concepts for improving urban space, they can heal with the right design. Today, many cities have destroyed their integrity to such an extent that many people perceive them as alienated, oppressive, tough, unattractive places, but this has nothing to do with the true, idealistic content of city life, which is aimed at creating comfort and convenience. The absolute majority of us spend the most time inside, near or at least under the direct influence of man-made, built habitat. We spend our lives in the midst of what was once the design of the architect. Tomorrow's world is shaped by our thought, our projects. Therefore, for engineering students, it is so important to understand at the design stage of educational projects how to create a comfortable environment for city residents and for oneself.

## **Methodology**

The search for information sources is as follows: an analysis of the students' work presented at scientific conferences and forums in the field of creating comfortable urban space. The purpose of the work is to study the projects of the participants of the Art-space forum, which was held from November 6 to November 9, 2018, on the basis of Penza State University of

Architecture and Construction in the Russian Federation. Participants developed the concept of a “comfortable environment” of the courtyard N or Square L with the given parameters. The task is to identify the criteria for creating a comfortable environment of the 21st century.

Main part



Picture №1. General plan of the project 1

Picture №2. Zoning project 1

The first work is done in eco-style. The footpaths on the master plan of the project are stylized tree branches. The main material is wood, from which most of the small architectural structures are made.

In addition, functional placement of zones and preferences of residents, which were indicated in the task, are thought out. In the case of the arrangement of the yard - this is the existence of a mini football team.

The advantages of this project include the comfortable location of a children's area and a quiet recreation area, which is designed for parents and grandparents who are looking after the younger generation. As well as with such a close location of the recreation area and the sports area, people involved in the simulators have the opportunity to become spectators of the matches. Also, a plus is the convenient location of the parking, which does not make it difficult for cars to pass but is located almost next to the children's area, which does not comply with sanitary rules. Consequently, the children's area should be deepened.

The peculiarity of the second project is a clearly defined place of attraction, located in the center, to which all the tracks lead and from which access to all zones of the territory is opened.



Picture №3. General plan of the project 2

In this paper, the materials of coatings are thought out. "Masterfiber-sport" - a seamless rubber coating for sports fields.

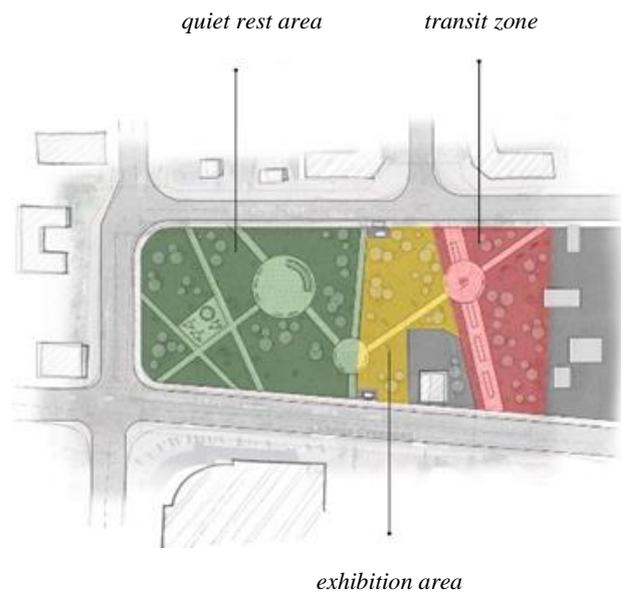
The non-slip and slightly elastic surface eases the load on the joints of athletes, greatly reducing the chance of injury. Rubber pavers are a modern substitute for classic parks and recreation areas. Its service life is much more than coatings of concrete or asphalt, which require repair after 2-3 years of operation. The plan shows parking spaces only for people with disabilities. The main location of the parking lot is outside the yard, which implies the presence of parking buildings in residential areas in the city. The lack of movement of cars in the yard increases the level of security.



Picture №4. Cross-section

The disadvantage of this project is the relief of the terrain, the game of heights, which is noticeable in the section. Multi-level environment implies the need for the existence of special structures - ramps, stairs. However, despite their functional significance, they will limit the freedom of movement of a person, since the transition to another level of the surface is carried out only in certain places, which naturally leads to a person in a state of discomfort.

In the task was indicated transit roads and the location of the object, taking the form of a traffic light against the demolition of which are the residents.



Picture №5. Functional area zoning

The third work of the participants.

The architectural object specified in the assignment, included in a transit zone, exhibition area includes information stands about the history of the city, in the quiet recreation area is located a coffee shop which can be a great attraction point for office workers at lunchtime.

When designing the coatings were reflected in the colors of an architectural object. The transit area has an insert of the pavement of red, exhibition area – yellow and the area for recreation – green. The main advantage of this project is not only what was taken into account the preferences of the residents of a fictional town, but thought the design concept in the spirit beloved by the people of the architectural object.

## Results

After analyzing these projects, there are several criteria for a comfortable environment:

1. The blend of terrain plastics landscapes is the best solution in the case of the desire of the architect to create a multi-level accessible environment.
2. The extensive use of natural materials.
3. Landscaping. The calming influence of nature on the human psyche.
4. Rubber coating, reducing the percentage of serious injuries in the fall.
5. Taking into account the opinions of residents.
6. Parking outside the yard, which ensures greater safety of residents of nearby houses.

Criteria for a comfortable environment that were not found in the submitted projects:

1. Silence. The use of noise protection technology design. Distance, barriers, sound absorption (in particular, greens, which also serves as a smoke filter), division into zones of greater and

lesser permissibility and masking (rustling of leaves, movement of water flow and other sounds of life) - all this can mute the external background noise.

2. The alternation of open and shaded spaces, which will allow a person to choose the zone that is comfortable for him.

### **Conclusion**

Progress made a person weak, in need of beauty and comfort, including at the level of urban women. On the basis of the work of the participants of the Art-space forum, patterns in creating a comfortable urban environment can be traced, which, I would like to believe, will be useful both to novice architects, builders, and serious officials.

### **Information sources:**

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