

PRINCIPLES OF DESIGNING INNOVATIVE URBAN BUILDINGS

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Abstract This in the article innovative city buildings formation principles , their modern in urbanization place , and stable development to the principles based design approaches analysis Also , ecological , technological and functional aspects in consideration taken without innovative of buildings city in architecture role illuminating given .

Support words Innovative building , urban planning , sustainable development , architecture approach , green technologies , environmental design , smart city (smart city), energy efficiency .

Login Today on the day urbanization processes acceleration in urban planning new approaches demand is doing . Population number reproduction , ecological problems and technological progress under the circumstances innovative buildings formation necessity sharp is increasing . Innovative city buildings not only modern architecture examples , maybe human health , comfort and ecological stability provider important are factors . This in the article this kind of of buildings formation principles , to them to be placed requirements and them in practice application methods analysis will be done .

Home part

1. Innovative building concept and types

Innovative buildings when modern technologies based on designed , energy efficiency high , ecological stability provider and human to your health positive impact indicating buildings This is understood . buildings usual construction from objects technological integration , environmental design , functional flexibility and energy from resources use efficiency with separated They are main types :

- **Smart Smart Buildings** – IoT (Internet of Things), automated management systems (lighting , heating , security) and with others) equipped buildings .

- **Energy economical buildings (Energy-efficient buildings)** - solar panels , heat insulation , natural lighting and ventilation systems through energy spending reducing structures .

- **Green Green buildings** – ecological clean from materials built , environment damage insufficient , green roofs , rain water collection systems and other ecological technologies own inside received buildings .

2. Innovative buildings design principles

Innovative buildings in formation following principles main is :

- **Stable to develop Flexibility** – Every one building social , economic and ecological balance to keep service to do necessary .

- **To the environment damage failure to deliver** – Buildings ecological from materials using minimal carbon in the footsteps has to be need .

- **From resources effective Use** – Water , energy , construction materials and land from resources thrifty use , reuse work and update opportunities support .

- **Flexible Design** – Buildings internal and external structures to need looking at easy changeable possible to be necessary .

- **High technologies integration to do** – Smart systems , artificial intelligence , digital monitoring and management modules using building efficiency increase

3. City in the environment innovative of buildings importance

Innovative buildings city infrastructure inseparable part as following advantages provides :

- **Energy consumption reduction** – Innovative technologies using energy spending noticeable at the level reduction possible (for example , the sun energy , passive heating and cooling systems).

- **Transportation and infrastructure with integration** – Innovation buildings often public transport , bike paths , pedestrians infrastructure with harmonious without is designed .

- **Healthy marriage style Support** – Natural lighting , clean air exchange , noise insulation and comfortable climate conditions through human to your health positive impact shows .

- **Social potential Increase** – Innovation building around public places , cultural and education institutions creation through social activity increases .

- **Competitiveness and investments attraction to do** – Innovative buildings modern of cities economic charm increases and foreign investments for important to the factor turns .

4. Foreign experience and Uzbekistan practice

- **International experience :**

- *Singapore* – Marina One project : ecological gardens , vertical green walls and integrated transportation system with famous

- *Sweden* – “ Hammarby Sjöstad area stable development sample as known as : water resources again work and waste automatic separation systems current done .

- *UAE (Dubai)* - " Masdar City" - energy himself himself/herself provider city project , solar energy based on viable

- **Uzbekistan experience :**

- Tashkent in the city new " New" under construction Tashkent ” project stable urban planning approaches , green regions and smart buildings concept working is being released .

- In Samarkand become last SCO summit within built buildings ecological and technological in terms of innovative is considered .

Conclusion Innovation city buildings are not only technological achievements product , maybe human and environment between harmony provider modern This is an approach . buildings formation through of cities stable development provision , ecological balance storage and human health for comfortable conditions create possible . Future of cities development exactly innovative architectural approaches is based on .

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