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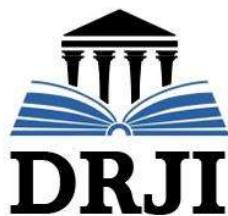


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ECOLOGICAL REQUIREMENTS, OBJECTIVES, AND GOALS OF ECOLOGICAL ANALYSIS OF ENERGY-ACTIVE BUILDINGS

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The energy system of a building is a specific engineering system designed to ensure the required operating conditions for facilities. As is well known, an energy system can be used for heating and cooling a building, as well as for powering the devices and installations located within it. The conditions and objectives of a building's construction define the set of requirements for its energy system. Ecological requirements are implemented both directly during the creation of the energy system and indirectly by establishing the conditions for its operation.

The problem of building energy supply can be addressed either solely within the scope of an individual building or a concentrated group of buildings in a specific area, or as part of a broader energy, environmental, or social program. The second approach appears to be more effective. It is essential to emphasize that the ecological assessment of the building energy supply issue should not be carried out for each individual project but rather for the entire sector. This should cover a territorial scale such as a region, a natural zone, or another designated area.

The ecological consequences of using various energy systems in buildings must be analyzed considering the range of phenomena observed during the production, transmission, and utilization of energy within the building. These phenomena are primarily determined by the type of energy system employed.

The integration of ecological principles in engineering design and the ecological requirements for engineering systems constitute the core of sustainable design practices. The primary goal of this process is environmental protection. [1.3]

Relevance of Environmental Topics and the Emergence of New Scientific Fields. The growing focus on environmental issues has led to the emergence of new scientific disciplines, including urban ecology. Some authors use the incorrect term "urban planning ecology"; however, ecology is a unified and indivisible science with different aspects depending on the research area. Highlighting the city as a unique object within the environment allows ecology to study one of the most critical components of the technosphere [12]. Urban ecology is a scientific discipline that examines the interactions between urban societies and the surrounding environment. The development of this field is a result of the increasing environmental focus of science.

Based on an analysis of the modern experience in constructing and operating energy-active buildings, a system of ecological indicators has been developed to

	Kushbakova Vasila Namozovna	
16.	SUVO'TLAR (ALGAE) BO'LIMINING INSONLAR HAYOTIDAGI AHAMIYATI K.Q.Nasriddinova S.R.Eshboyeva	82
17.	ECOLOGICAL REQUIREMENTS, OBJECTIVES, AND GOALS OF ECOLOGICAL ANALYSIS OF ENERGY-ACTIVE BUILDINGS Dusyarov Akmal Sa'dullayevich	85
18.	ФОРМИРОВАНИЕ ПСИХОЛОГИЧЕСКОЙ ГОТОВНОСТИ К ИННОВАЦИОННОЙ ДЕЯТЕЛЬНОСТИ ПЕДАГОГОВ РУКОВОДИТЕЛЕЙ ДОШКОЛЬНОЙ ОБРАЗОВАТЕЛЬНОЙ ОРГАНИЗАЦИИ Ш.Н.Нурдавлатова	89
19.	ZAMONAVIY SENOGRAFIYA MAISHIY JANR IFODASI Eldor Xushvaqto'v	93
20.	ABU NASR FOROBIYNING MUSIQIY TARBIYA VA ILMIY ME'ROSI Farhod Farmonov	98
21.	KOMMUNA ISMOILOVA IJODIDA AN'ANAVIYLIK Mo'minova Lobar Rahimjonovna	102
22.	SEMANTIC CHARACTERISTICS OF PROVERBS IN ENGLISH AND UZBEK LANGUAGES Abduqayumova Sanobar Abdurashidovna Uralova Oysulov Poyan qizi	107
23.	BO'LAJAK O'QITUVCHILARNING PEDAGOGIK FAOLIYATIDA KASBIY BARQARORLIKNI SHAKLLANTIRISH Xusanov Bobur Ne'mat o'g'li	112
24.	TEATR SAN'ATI TURLARI Usnatov Rashid Jaksilikovich	116
25.	THE IMPACT OF TECHNOLOGY ON BUSINESS GROWTH Mirzanazarov Elbek Mirzanazarova Sabriya	120
26.	THE ROLE OF LEADERSHIP IN BUSINESS SUCCESS Mirzanazarov Elbek Mirzanazarova Sabriya	124
27.	XURSHID DAVRON ASARLARIDA TARIXIY QARASHLAR Abdurazzaqova Shoir Po'latjon qizi Abdullayeva Dildoraxon Zumratbekovna	128
28.	TA'LIM SIFATINI OSHIRISH – YANGI O'ZBEKISTON TARAQQIYOTINING YAKKAYU YAGONA TO'G'RI YO'LIDIR Xusanov Zikriyo To'lanboy o'g'li	131
29.	TURLI IQLIM SHAROITLARIDA ISHLAYDIGAN BROF-10 MARKALI BRONZA KUKUNIDAN FILTRLOVCHI MATERIALLAR OLISH TEXNOLOGIYASI Sirojev Hayotjon Xolmurotovich,	137
30.	OLIY HARBIY TA'LIM O'QUV-TARBIYA JARAYONINI KREATIV YONDASHUV ASOSIDA BOSHQARISHNING IMKONIYATLARI Miraxmedov Mirzatilla Sunnatovich	141
31.	KREATIV YONDASHUV ASOSIDA BOSHQARISHGA YO'NALTIRILGAN TAJIRIBA-SINOV ISHLARINI TASHKIL QILISH METODIKASI Kamalov Nozim Kasimjanovich	146
32.	«ВЛИЯНИЕ ЛИЧНОСТНЫХ ХАРАКТЕРИСТИК НА РАЗВИТИЕ ЛИНГВИСТИЧЕСКОЙ КОМПЕТЕНЦИИ ПЕДАГОГОВ ВЫСШЕГО ОБРАЗОВАНИЯ» Маратова Чаросхон Улугбек кизи	152